915063

ANNUAL REPORT

POST CONSTRUCTION GROUNDWATER MONITORING AT THE CHERRY FARM SITE (NYSDEC SITE NO. 9-15-063) RIVER ROAD SITE (NYSDEC SITE NO. 9-15-031)

Tonawanda, New York

SUBMITTED TO:

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION

SUBMITTED BY:

CHERRY FARM/RIVER ROAD SITE
Potentially Responsible Parties

PREPARED BY:

PARSONS ENGINEERING SCIENCE, INC.
180 Lawrence Bell Drive, Suite 100
Williamsville, New York 14221
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PARSONS

OCTOBER 1999

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Annual Report

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EXECUTIVE SUMMARY

INTRODUCTION

Parsons Engineering Science, Inc., (Parsons) has prepared this Annual Report to summarize the annual monitoring and maintenance activities conducted from August 1998 to July 1999 at the Cherry Farm/River Road Site (Site). The work was conducted as part of the required post-construction operations, maintenance, and monitoring (OM&M) program to monitor and evaluate groundwater and surface water quality, and determine the effectiveness of both the shallow and intermediate/deep groundwater extraction systems.

PROGRAM METHODOLOGY

Sumps in the shallow aquifer and monitoring wells in the intermediate/deep aquifer were sampled on October 21, 22, and 23, 1998, and on April 19, 20, and 21, 1999, as required in the OM&M Manual. All samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL pesticides/PCBs, and target analyte list (TAL) metals. No surface water was present at the designated locations during the October 1998 sampling event. In April 1999, surface water was sampled from a single location.

Water level monitoring was conducted monthly on the monitoring wells, recovery wells, sumps, and observation wells. Water level data was utilized to construct groundwater contour maps and hydrographs.

Construction of the landfill cap was completed in July 1999. Final construction and Site closeout activities included completion of the cap over the former Sediment Disposal Area (SDA), replanting of the woody and wetland shoreline areas, and miscellaneous Site cleanup items. Also, maintenance was performed on various components of the groundwater treatment system throughout the year. The maintenance operations were performed as part of scheduled preventive maintenance, or were required due to breakdowns or malfunctions.

MONITORING SUMMARY

Intermediate/deep groundwater samples contained a total of four VOCs at concentrations above NYSDEC groundwater standards or guidance values: benzene, toluene, ethylbenzene, and xylene (BTEX). A total of three SVOCs were detected above groundwater standards including 2-methylphenol, 4-methylphenol, and phenol. No PAHs were detected at concentrations exceeding groundwater standards. One detected pesticide, endrin, exceeded standards in the second round only. No PCBs were detected in any of the monitoring wells in either sampling round. Concentrations for eight TAL metals exceeded standards, including manganese, iron, sodium, antimony, arsenic, chromium, lead, and magnesium.

Shallow groundwater samples contained a total of seven VOCs, eight SVOCs, thirteen PAHs, two pesticides, three PCBs, and five TAL metals which were detected at concentrations above groundwater standards. The greatest concentrations and frequency of detections occurred in S-1, where LNAPL was observed during all but two water level monitoring events.

In general, intermediate/deep zone groundwater quality improved in the 1998/1999 sampling events relative to the 1997/1998 events. Shallow groundwater quality was comparable during both years.

SYSTEM EFFECTIVENESS

The intermediate/deep groundwater extraction system achieved the objective of preventing offsite migration to adjoining properties, and to the Niagara River. Sufficient drawdown was maintained throughout the period to create a barrier to offsite migration of groundwater, but the capture zones were marginal in some areas between August and October 1998. At the request of the NYSDEC, water level sensors in the intermediate/deep recovery wells were lowered by approximately four feet in RW-1 through RW-9 in October 1999. Following the change in sensor position, drawdown around the recovery wells increased, producing a resulting increase in capture zones.

The shallow collection trench system is operating as planned, with flow rates very close to those predicted during the design phase. No surface overflows were observed from the trench during the reporting period, with the exception of the temporary shutdown of S-3 and S-4 during dredging operations.

CONCLUSIONS

- Impacts from the Site on groundwater quality in the intermediate/deep zone were relatively minor. Intermediate/deep zone groundwater quality showed some improvement in the 1998/1999 sampling events relative to the 1997/1998 events.
- Shallow groundwater quality showed greater impacts from the Site than the intermediate/deep zone samples, and was comparable to the 1997/1998 sampling events. The most notable impacts were limited to sump S-1, likely due to the measurable thickness of LNAPL (oil) throughout the reporting period.
- Sufficient drawdown was maintained throughout most of the period (with occasional interruptions) to prevent offsite migration of groundwater. The radius of capture and gradients from the river towards the recovery wells increased as a result of lowering the pumping levels in October 1998.
- The shallow collection trench system was operating as designed, with flow rates approximating those predicted during the design phase.

SECTION 1

INTRODUCTION

1.1 PURPOSE

Parsons Engineering Science, Inc., (Parsons) has prepared this Annual Report to summarize the annual monitoring and maintenance activities conducted from August 1998 to July 1999 at the Cherry Farm/River Road Site (Site)(Figure 1.1). The work was conducted as part of the required post-construction operations, maintenance and monitoring (OM&M) program, to monitor and evaluate groundwater and surface water quality, and determine the effectiveness of both the shallow and intermediate/deep groundwater extraction systems. The field efforts and reporting tasks were prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Post-Remedial Construction OM&M Manual, dated February 1999.

The scope of services defined in the OM&M Manual can be divided into four tasks:

- Task 1 - Groundwater quality monitoring;
- Task 2 - Surface water quality monitoring;
- Task 3 - Water level monitoring; and
- Task 4 - Evaluation of monitoring data.

1.2 BACKGROUND

As part of the Site Remedial Action Plan, a groundwater extraction system was installed. A series of 11 recovery wells extracts groundwater from the intermediate/deep aquifer, and a groundwater extraction trench collects shallow groundwater and any associated light non-aqueous phase liquids (LNAPL) (Figure 1.2). Groundwater collected from the recovery wells and the extraction trench is treated onsite, and discharged to the Town of Tonawanda's Wastewater Treatment Facility. Operation of the groundwater extraction system began on August 18, 1997.

A series of groundwater monitoring wells was installed at upgradient and downgradient locations to provide adequate data to evaluate the effectiveness of the groundwater extraction system. The environmental monitoring system for groundwater and surface water includes the following:

- A total of seven intermediate/deep groundwater monitoring wells (two upgradient and five downgradient) to assess groundwater quality and efficiency of the groundwater extraction system;

- Nine observation wells to measure the hydraulic gradient of shallow groundwater, as it enters the shallow interceptor trenches;
- Four sumps, located in the shallow trenches, to assess the shallow groundwater quality, and to collect LNAPL, if present; and
- Three surface water sampling points to assess surface water quality.

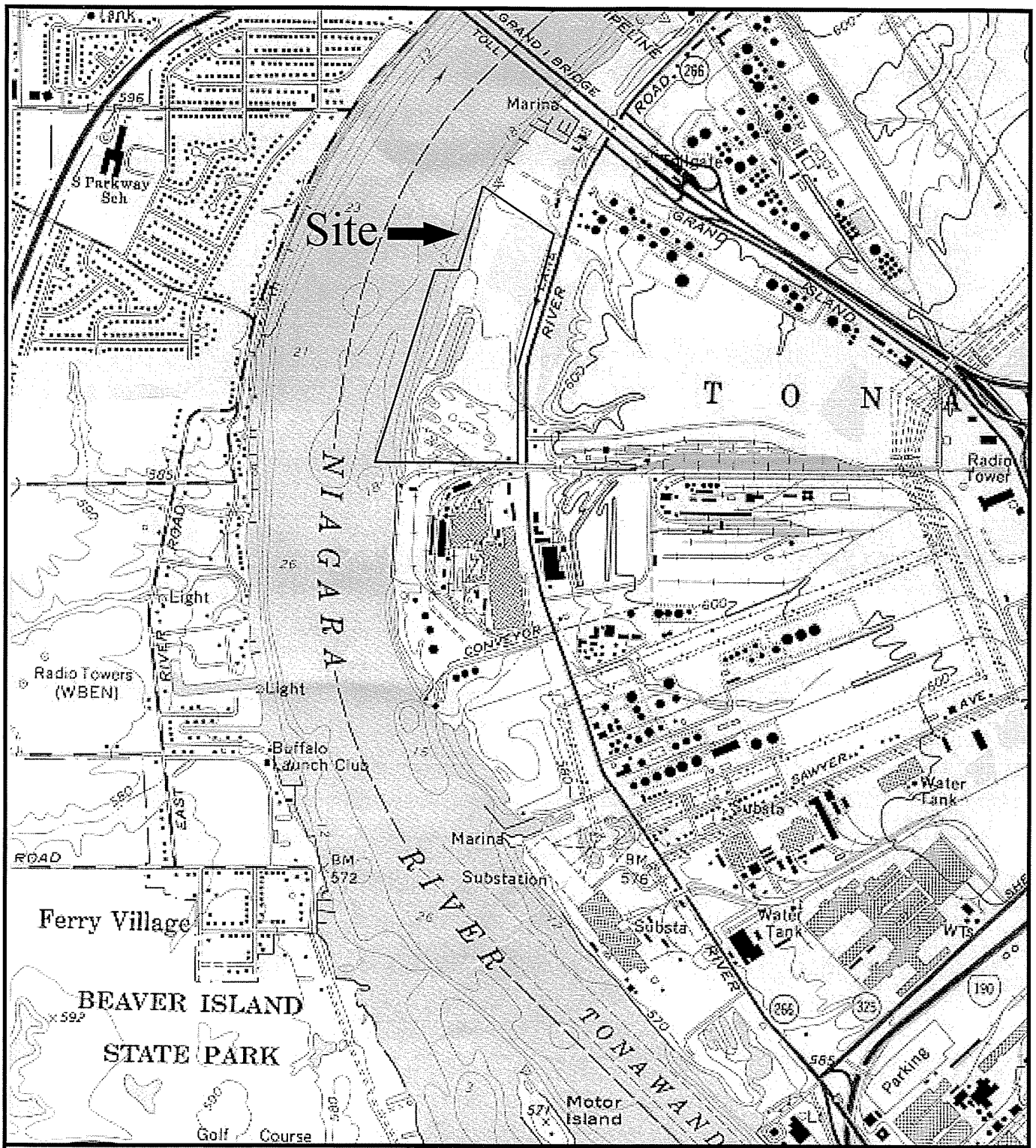
Two upgradient intermediate/deep zone monitoring wells were installed to provide representative samples of groundwater from areas expected to be outside the influence of the landfill. The five downgradient wells were designed to detect releases from the landfill during the operation of the groundwater recovery system. Sampling and analysis of groundwater from the upgradient and downgradient monitoring wells was performed quarterly for the first year of operations, but was reduced to semi-annually during the second year, in accordance with the OM&M Manual.

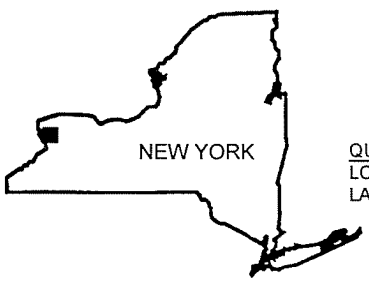
Piezometers (observation wells) were installed to monitor the hydraulic gradient of shallow groundwater and LNAPL as it enters the shallow collection trenches. These observation wells are hydraulically upgradient of the collection trenches, at the locations shown on Figure 1.2. They were located and constructed to provide hydraulic data needed to confirm adequate performance of the shallow collection trenches. At no time will groundwater samples for chemical analysis be collected from the shallow observation wells.

1.3 REPORT ORGANIZATION

This report has been organized into the following four sections:

- Section 1 - Introduction - Scope of work and background information.
- Section 2 - Program Methodology - contains information pertaining to the samples collected, dates collected, analyses performed, and sampling protocols followed during the sampling events. Also, this section summarizes the completion of construction activities, and annual maintenance activities performed during the year.
- Section 3 - Monitoring Summary - presents the semi-annual analytical data, monthly water level data, discussion of groundwater and surface water quality, effectiveness of the recovery well and shallow extraction systems, and the temporary effects of dredging on the shallow groundwater.
- Section 4 - Summary and Conclusions.





QUADRANGLE LOCATION
LONGITUDE: 78° 52' 30"
LATITUDE: 42° 52' 30"

SOURCE: U.S.G.S. 7.5 SERIES BUFFALO NW, New York-Ont (TOPOGRAPHIC), 1965

Figure 1.1

Cherry Farm/River Road Site PRP Group
Cherry Farm/River Road Site

SITE LOCATION MAP

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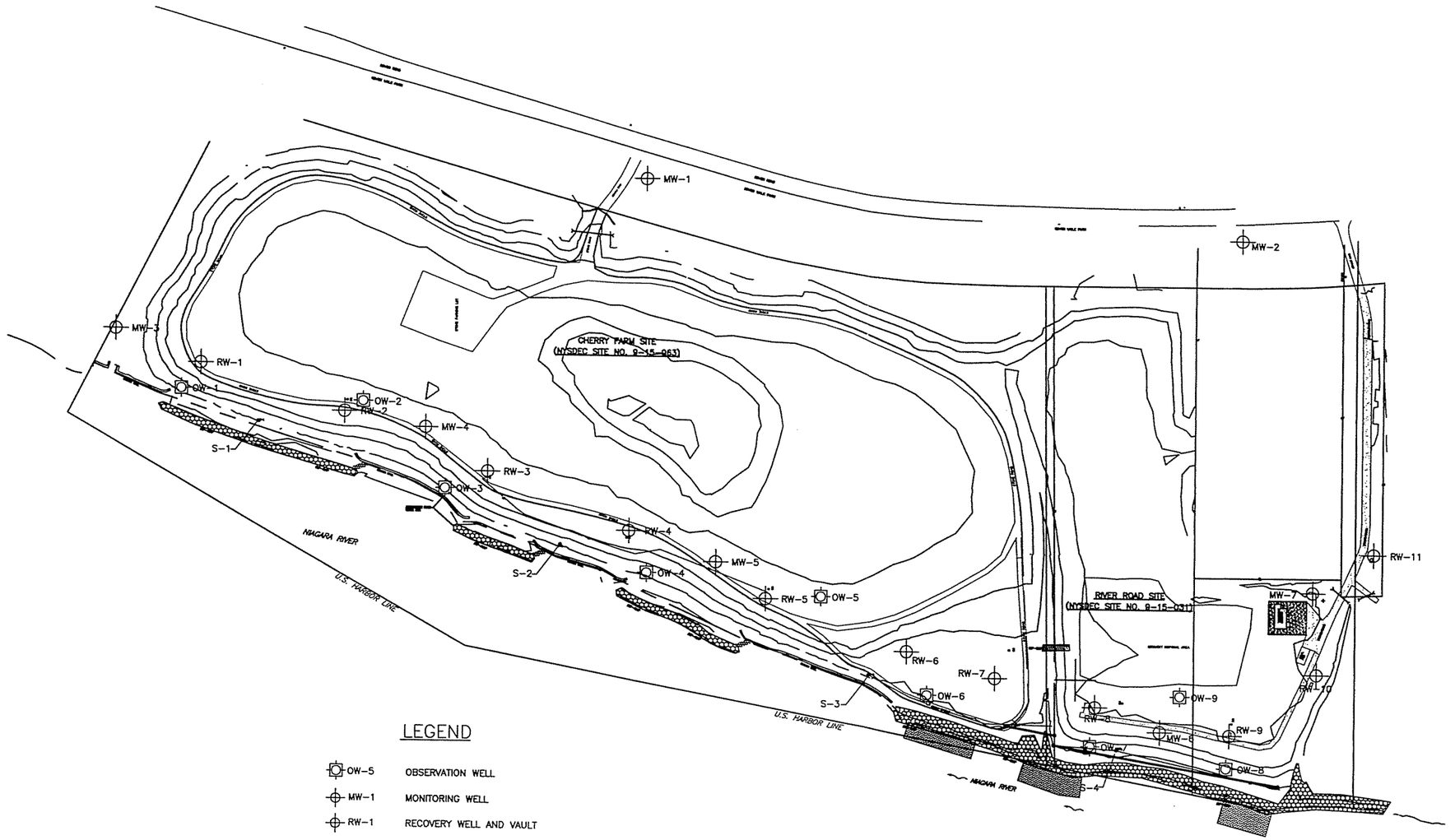

LEGEND

OW-5	OBSERVATION WELL
MW-1	MONITORING WELL
RW-1	RECOVERY WELL AND VAULT
	SHALLOW GROUNDWATER INTERCEPTOR TRENCH
	GROUNDWATER CONVEYANCE PIPING
575	PROPOSED FINAL GRADE INDEX CONTOUR
	SEDIMENT CAP AREA
	RIP-RAP

300 150 0 300 600

SCALE: 1"=300'

DATE: 10/08/99 (FCW)
FILE: P:\726673\CAD\R03\26671R05.DWG
SCALE: PAPER SCALE, 1/300xp
XREF'S: 26671c01,cont-text,top

FIGURE 1.2

CHERRY FARM/RIVER ROAD SITE
ANNUAL GROUNDWATER MONITORING REPORT

EXTRACTION SYSTEM LOCATION MAP

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SECTION 2

SECTION 2

PROGRAM METHODOLOGY

2.1 GROUNDWATER QUALITY MONITORING

Groundwater quality in the intermediate/deep zone was monitored at seven locations, including two upgradient and five downgradient wells. Also, four sumps located in the collection trenches were sampled to monitor shallow groundwater quality. The monitoring wells and sumps were sampled semi-annually as follows:

- First Round - October 21, 22, and 23, 1998; and
- Second Round - April 19, 20 and 21, 1999.

All monitoring wells and sumps were sampled during both rounds, with the exception of sump S-4 which was not sampled during the first round. The sump was non-operational at the time of sampling. Complete sample results are contained in the analytical data tables in Section 3, and Appendix A. Also, quality assurance/quality control (QA/QC) sample results are presented in Appendix A. Analytical summaries of all monitoring performed to date are provided in Appendix B.

The monitoring wells and sumps were sampled in accordance with the 1999 OM&M Manual. The samples were analyzed in accordance with NYSDEC Analytical Services Protocol (ASP) for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs), TCL pesticides/PCBs, and target analyte list (TAL) metals. Also, associated QA/QC samples were collected during each sampling event, including one field duplicate, one MS/MSD, two trip blanks, and one field blank. All purge water and decontamination water was contained and conveyed to the onsite treatment plant.

Following collection, the samples were packed in ice and shipped via same day delivery or overnight delivery to an approved laboratory in accordance with chain-of-custody procedures. Both rounds of sample analyses were performed by O'Brien & Gere Laboratories, Inc. (OB&G) of Syracuse, New York. Sampling reports submitted by OB&G contain analytical summaries, chains-of-custody, and sampling logs.

2.2 SURFACE WATER QUALITY MONITORING

No representative surface water was available for sampling during the first round in October 1998. One surface water sample was collected during the second round on February 18, 1999 at surface sample location No. 1 (Figure 1.2). All other sample locations were dry during both sampling events. The surface water was collected directly into sample containers when sufficient flow was available. When the flow was minimal, surface water was collected into decontaminated glass containers and decanted into the appropriate sample containers. The

surface water sample was analyzed for the same chemical parameters as the groundwater samples. Sample results are presented in Section 3, and in Appendix A.

2.3 WATER LEVEL MONITORING

Monthly water level monitoring was performed to determine whether pumping from the recovery wells and the shallow trench was producing adequate hydraulic gradients. In addition to the water level measurements, the characteristics of LNAPL, if present, were described, and the thickness measured. An electronic water level indicator was used to measure levels, with an accuracy of approximately 0.01 feet.

Groundwater levels were collected at each of the following locations:

- Seven groundwater monitoring wells (MW-1 through MW-7);
- Nine observations wells (OW-1 through OW-9);
- Four sumps (S-1 through S-4); and
- Eleven recovery wells (RW-1 through RW-11).

The database of water level measurements collected during the year is summarized in Table 2.1.

2.4 ANNUAL SITE MAINTENANCE

Remedial construction was concluded in July 1999. The required quarterly site inspections began in September 1999. However, site walkovers and inspections were conducted frequently during the past year, and any items requiring attention were included in the final construction phase. These items included, but were not limited to, the following list:

- Replanting of the woody and wetland shoreline areas, as described in the October 1999 Construction Certification Report.
- Relocating landscape rocks from the boat launch area to the western side of the Cherry Farm Site, and the gravel parking lot; and completing topsoil and seeding where rocks were removed.
- The drainage culvert from beneath the temporary roadway connecting the Cherry Farm and River Road Sites was removed and placed in the Sediment Disposal Area (SDA).
- The fencing around the SDA was removed, and non-salvageable parts were placed in the SDA.
- Site cleanup included removing stakes, wood, and rebar from shoreline fabric and remaining silt fencing. Waste materials were disposed of in the SDA.

- The slope west of the SDA was repaired by adding topsoil, compacting the topsoil, and reseeding.

2.5 GROUNDWATER TREATMENT SYSTEM MAINTENANCE

Maintenance was performed on various components of the groundwater treatment system throughout the year. The maintenance operations were either scheduled preventive maintenance, or were required due to breakdowns or malfunctions. The maintenance operations resulted in down time for one or more components of the groundwater treatment system. The maintenance operations performed during the previous year are summarized in Table 2.2.

Table 2.1

Cherry Farm/River Road Site

Water Level Summary

	31-Jul-98	27-Aug-98	28-Sep-98	21-Oct-98	23-Nov-98	29-Dec-98	28-Jan-99	22-Feb-99	29-Mar-99	4-Apr-99	28-May-99	25-Jun-99	25-Jul-99	27-Aug-99	27-Sep-99
MW-1	566.10	566.03	565.93	565.73	565.27	565.05	565.35	565.03	565.36	565.51	565.60	565.20	565.47	565.48	565.27
MW-2	565.85	565.92	565.80	565.65	565.09	564.81	565.01	564.87	565.01	563.20	563.33	562.95	565.36	565.31	565.05
MW-3	565.37	565.26	565.20	565.08	564.70	564.11	564.70	564.47	564.66	565.19	565.04	564.70	564.91	565.00	564.38
MW-4	565.74	565.65	565.65	565.38	564.96	564.53	564.76	564.71	564.99	565.12	565.25	564.91	565.11	565.27	565.11
MW-5	565.41	565.66	565.54	565.22	564.78	564.40	564.43	564.35	564.53	564.64	564.87	564.63	564.84	564.90	564.75
MW-6	565.22	565.77	565.38	565.40	564.56	564.01	564.05	564.02	564.12	564.33	564.36	564.38	564.80	564.68	564.45
MW-7	565.35	565.99	565.62	565.40	564.70	564.27	564.67	564.64	564.66	564.79	564.76	564.62	564.89	564.88	564.67
OW-1	565.42	565.33	565.25	564.94	564.49	563.97	564.24	564.07	564.27	564.94	564.92	564.71	565.02	564.85	564.33
OW-2	568.10	568.14	568.20	568.20	568.20	568.14	567.93	567.79	568.11	567.71	567.81	567.72	567.91	567.78	567.74
OW-3	565.70	566.22	566.15	565.83	565.45	564.87	565.00	564.96	564.98	564.99	565.10	564.77	564.96	564.91	564.90
OW-4	565.68	566.30	566.05	565.80	565.33	564.74	564.92	564.87	564.93	564.97	565.08	564.76	565.04	564.95	564.82
OW-5	566.63	567.10	567.20	567.10	567.21	566.84	566.36	566.08	566.21	565.99	565.94	566.03	565.98	565.92	565.73
OW-6	565.87	567.84	567.67	567.09	566.48	565.35	565.61	565.49	565.45	565.35	565.34	565.06	565.21	565.16	565.08
OW-7	565.89	567.22	568.44	567.59	566.77	565.22	565.61	565.42	565.31	565.23	565.35	564.85	565.11	565.03	564.94
OW-8	565.54	566.62	567.39	566.08	565.95	564.88	565.15	565.05	564.95	564.99	565.00	564.50	564.91	564.86	564.68
OW-9	NA	NA	570.89	569.69	568.24	NA	NA	NA	NA	566.68	566.57	566.38	566.30	566.35	566.21
S-1	564.52	564.98	566.09	564.14	564.61	563.89	564.16	564.23	564.08	564.13	564.22	564.25	564.17	564.19	564.24
S-2	565.73	566.44	566.22	565.93	565.52	564.89	565.04	565.01	565.03	565.04	565.16	564.80	565.03	564.99	564.86
S-3	565.83	567.33	567.04	566.61	566.06	565.14	565.43	563.50	565.31	565.24	565.24	564.93	555.03	565.02	565.05
S-4	565.88	566.00	568.49	568.09	566.81	564.90	565.54	565.38	565.23	565.19	565.12	564.56	545.11	565.18	565.07
RW-1	560.54	560.74	559.97	556.47	564.59	554.67	546.27	546.91	551.42	564.97	556.02	564.58	560.19	555.92	555.47
RW-2	560.27	560.29	560.42	556.21	555.81	555.94	555.50	556.01	556.12	556.42	556.17	556.42	544.11	556.31	564.74
RW-3	559.65	560.71	560.11	555.75	555.53	543.98	555.87	555.59	555.79	555.63	555.79	555.78	567.04	565.11	564.95
RW-4	560.02	559.75	560.31	557.32	557.30	564.54	556.58	556.92	556.62	556.52	557.17	564.71	566.86	559.01	559.38
RW-5	560.03	559.77	560.30	556.63	544.43	556.44	556.37	544.21	544.48	544.37	556.02	544.20	555.78	555.51	556.09
RW-6	560.34	560.64	565.40	555.56	556.53	556.13	564.44	564.47	556.26	555.36	555.28	564.49	543.51	555.45	555.82
RW-7	560.62	560.30	550.87	555.70	564.95	548.55	555.72	555.77	556.60	555.71	NA	555.84	547.60	555.77	557.29
RW-8	565.38	561.60	561.14	556.71	557.13	557.71	557.26	557.72	557.21	556.93	557.56	564.54	560.37	557.52	564.61
RW-9	565.36	566.15	559.93	565.55	556.63	564.23	556.21	556.08	556.69	556.31	NA	564.54	556.61	556.56	564.57
RW-10	559.92	560.49	559.93	559.97	559.76	560.63	560.17	560.25	559.72	559.83	559.92	559.95	560.21	560.08	560.24
RW-11	NA	560.90	560.15	560.48	560.01	558.10	558.45	558.36	557.99	558.27	558.25	558.45	557.76	557.82	557.95

Water Levels recorded in feet NGVD

Table 2.2
Cherry Farm/River Road Site
Maintenance Summary

Pump, Well or Equipment	Dates Down	Maintenance Performed / Reason
RW-9	7/2/98	Cleaned floats and reset
RW-9	7/8/98	Ceaned floats and reset
RW-10	7/8/98	Disconnect VSD for servicing
ISCO sampler	7/9/98	Replaced pump head tubing
Clearwell pump 2	7/10/98	Took apart, impellar was wobbly. Some plastic melted on.
RW-8	7/17/98 - 7/20/98	VSD needs servicing
CF-1	7/20/98	Tighten all fittings
RW-10	7/22/98	Install new VSD
RW-3,4,5	7/22/98	Remove VSD fo servicing
RW-8,9	7/24/98	Remove VSD fo servicing
RW-8,9	7/31/98	Changed floats
RW-1-9&11	8/7/98	Install new VSD
S-4, S-3	8/12/98	Sumps flooded. Killed 480V power to both of them. S-3 until 10/24/98, S-4 until 12/16/98
RW-1	8/14/98	Clean impeller on flow meter
RW-3	8/14/98	Clean impeller on flow meter
RW-4	8/14/98	Change batteries in flow meter.
RW-7	8/14/98	Change batteries in flow meter.
RW-4, 7	8/28/98	Changed batteries in flow meters.
LEL Sensor	8/29/98	Replaced LEL sensor
RW-9	8/31/98	Replaced bad float switch
RW-8,9	9/3/98	Cleaned probes on RW-9 and reset. Could not restart PW-8
RW-9	8/31/98	Replaced bad float switch.
CF-3	9/14/98	Hand tighten connections.
Low temp switch	9/16/98	Replaced low temp switch
Low temp switch	9/18/98	Paint second coat of paint on low temp switch
RW-1,2,3	9/21/98	Fixed flow meters in RW-1,2,3
S-1	9/21/98	Motor in S-1 is burnt out
RW-10	9/23/98	Continued running until floats were cleaned
RW-6	9/23/98	RW-6 down, floats were dirty
PST-1	9/28/98	Low alarm sensor was plugged. Put screen over sensor
RW-5,6,7	9/28/98	Fixed flow meters in RW-5,6,7
RW-1-9	10/19/98	Lowered floats by 4' in RW and increased speed at VSD to 3000rpm
RW-2,6,7,8	10/22/98	Installed new flow meters
PST-1	10/24/98	Install spray head on clearwell recirculation line
S-3	10/24/98	Turned S-3 back on, it had been off since 8/12/98
PST-1	11/12/98	Install second sprayhead in clearwell
RW-9	11/20/98	Changed battery in flow meter
Plant	11/24/98 @ 8:00-11/25/98 @ 16:00	All alarms blinking due to power shutdown to trailers. Reset.
Plant	12/14/98 @ 22:00-12/16/98 @ 13:00	Low EQ tank pH
S-4	12/16/98	Restarted S-4 had been down since 8/12/98
Plant	12/30/98 @ 09:00-12/31/98 @ 13:00	Low building temperature alarm. Reset.
RW-4	12/31/98	VSD needs servicing. Evidence of small fire.
Plant	1/2/99 @ 01:00-1/5/99 @ 8:00	Multiple problems (low building temp)
CF-3	1/5/99	Replace .5" OD HDPE feed line and compression fitting going from caustic tank to CF-3
AIC-131	1/5/99	Replace pH probe for AIC-131
Plant	1/5/99 @13:00-1/7/99 @ 13:30	Low pH in EQ tank. Clean intake screen in Caustic tank, reset.
RW-10	1/11/99	Cleaned floats in well
RW-7	1/11/99-1/12/99	Cleaned floats in well

Table 2.2
Cherry Farm/River Road Site
Maintenance Summary

Pump, Well or Equipment	Dates Down	Maintenance Performed / Reason
RW-7,9	1/17/99-1/19/99	Cleaned RW-9 floats. Reset RW-7 breaker.
RW-4	1/22/99	Install new VSD
MX-2	1/22/99	Bypass VSD.
RW-9	1/25/99	Clean floats to restart.
RW-6	1/29/99-2/26/99	VSD is corroded and colloquial. Replace it w/ a 00 size starter.
RW-9	2/16/99	Clean floats to restart.
RW-9	2/17/99	Raise and lower floats to reset.
RW-9	2/22/99	Raise and lower floats to reset.
RW-9	3/4/99	Cleaned floats in well
RW-10	3/8/99	Cleaned floats in well
S-3	3/12/99	Cleaned corrosion out of control panel, and repowered.
CF-3	3/17/99	Caustic feed pump is not working
PST-1	3/17/99	Pump #1 in the clearwell not pumping so it was shut off. Put new impellar, retaining nut and shaft on. Reinstalled on 3/27/99
CF-3	3/27/99	Replace 4 function valve on caustic meteing pump.
RW-7	3/29/99	Reset breaker in RW-7.
Plant	4/25/99 @ 16:00-4/26/99 @ 07:30	Plant down due to pump over run error
EQ tank	4/28/99	Replaced EQ tank probe
Plant	4/25/99-5/4/99	Plant down due to bad pH probes
EQ and Acid tank	5/4/99	Replaced acid and EQ tank pH probes
CF-1	5/6/99	Replaced HDPE tubing for CF-1
RW-6	5/12/99-5/14/99	RW-6 down, tighten flange at HDPE/PVC joint it had come loose
CF-1,2	5/19/99	Changed tubing on CF-1, Tightened connections on CF-2
RW-3	5/28/99	Replace battery and recalibrate flowmeter
Plant	6/3/99-6/7/99	Hasley operator hit powerline knocking out power to entire plant
Main power line	6/7/99	Furguson pulled all old conductor out between EB-1 and EB-2. Replaced 12' of damaged 1" PVC condiut (glued ends)
S-3	6/10/99-8/18/99	S-3 down. Circiut board in RW-6 blew, Furguson fixed
RW-2,3	6/21/99	Fixed flow meters in RW-2,3
RW-6	7/2/99-7/15/99	Floats are turning pump on but well is not pumping any water
RW-4	7/8/99	Installed new probe in well. Used copper wire for probe instead of normal probe from Warrick
RW-9	7/15/99	Clean floats well started pumping again
RW-6	7/15/99	Pulled pump from well cleaned w/ HCl and replaced fuses
Acidification tank	7/29/99	Replaced pH probe in acidification tank
EQ tank	8/2/99	Replaced pH probe in EQ tank
Plant	7/29/99-8/2/99	Plant down due to bad pH probe
RW-9	8/9/99	Replaced probes in RW-9 since they seem to work erratically
RW-9	8/13/99	Cleaned probes so well would start pumping again
RW-4	8/13/99	Reattached probe to well casing so pump would run
RW-4,5	8/13/99	Fixed flow meters in RW-4,5
RW-9,10	8/16/99	Cleaned probes in RW-8 and reset VSD in RW-9 to get well started
S-3	8/18/99	Reinstalled pump in S-3 and restarted

SECTION 3

SECTION 3

MONITORING SUMMARY

3.1 GROUNDWATER QUALITY

Semi-annual sampling included the collection of groundwater samples from monitoring wells to assess intermediate/deep groundwater quality; and from the sumps located in the shallow collection trenches, to assess shallow groundwater quality. The groundwater data are summarized in Tables 3.1 and Table 3.2. Sample results were compared to NYSDEC Class GA Groundwater Standards or Guidelines (groundwater standards). Complete sampling results for the current year are presented in Appendix A. Summary tables of all samples collected to date are contained in Appendix B, and are arranged by sampling point to facilitate comparison of concentrations at each sampling point over time.

In general, impacts from the Site on groundwater quality in the intermediate/deep zone were relatively minor. Concentrations of organic compounds were low, below groundwater standards in most samples. Metals concentrations exceeded groundwater standards in some samples, but were actually higher in the background well (MW-2) for most metals.

Shallow groundwater quality, as expected, showed greater impacts from the Site than the intermediate/deep zone samples. However, the most notable impacts were observed in sump S-1, likely due to the measurable thickness of LNAPL (oil) throughout the reporting period.

3.1.1 Intermediate/Deep Groundwater Quality

A total of four VOCs were detected in the intermediate/deep monitoring well samples, above groundwater standards: benzene, toluene, ethylbenzene, and xylene (BTEX). Concentrations above the standards occurred only in MW-5, and were very similar for the two rounds. Concentrations of benzene were more than two orders of magnitude above the standard of 1 microgram per liter (ug/l). Concentrations of ethylbenzene, toluene, and xylene were less than one order of magnitude higher. Carbon disulfide was detected in the second round of samples, in concentrations that ranged from 2 ug/l to 19 ug/l. However, this same compound was also detected in equipment and trip blanks at concentrations ranging from 6 ug/l to 33 ug/l (Appendix A). VOCs detected during the 1998 to1999 (October 1998 and April 1999) rounds are comparable in number and concentrations as those detected in one or more quarterly samples of the previous year, 1997 to1998 (August and November 1997, and February and May 1998).

SVOCs were divided into two groups for discussion purposes: SVOCs and polycyclic aromatic hydrocarbons (PAHs). A total of three SVOCs were detected which exceed groundwater standards. These include 2-methylphenol, 4-methylphenol, and phenol which were detected during both rounds in MW-5, at less than one order of magnitude above the groundwater standards of 1 ug/l for each. One additional SVOC, 2,4-dimethylphenol, was

detected in MW-5, but was below groundwater standards. No other SVOCs were detected during either round in any of the other monitoring wells. The total of four SVOCs detected during the 1998/1999 sampling events has decreased from a total of eight SVOCs detected in one or more quarterly samples from the previous year. The compounds exceeding groundwater standards remained the same.

A single PAH, naphthalene, was detected in MW-5 during both rounds, but concentrations were below groundwater standards. No other PAHs were detected in any of the other monitoring wells during either round. The detected concentration of naphthalene is less than concentrations detected in previous quarterly samples, which slightly exceeded groundwater standards.

A total of eighteen pesticides were detected, eight of which were detected in the background wells or the sidegradient well (MW-3). One detected pesticide, endrin, exceeded groundwater standards in MW-4 and MW-5 during the second round only. Concentrations of endrin were extremely low, estimated below method detection limits, within the parts per trillion range. Total numbers of compounds detected remained the same from the previous sample year, but concentrations were slightly lower. For example, concentrations of dieldrin did not exceed groundwater standards in samples of the 1998/1999 sample year, but slightly exceeded groundwater standards in one or more quarterly samples in the 1997/1998 sampling year. No PCBs were detected in any monitoring wells during either round.

Concentrations for seven TAL metals exceeded groundwater standards in the monitoring wells. The highest concentrations of TAL metals were detected in the background well, MW-2. Only manganese found in MW-6, and sodium found in MW-5, exceeded groundwater standards, and were above the background concentrations in MW-2, or the side gradient well MW-3. Iron and sodium exceeded groundwater standards in all downgradient wells for both rounds. Manganese concentrations exceeded groundwater samples in downgradient well MW-6 for both rounds.

The total number of metals with concentrations exceeding groundwater standards decreased from the 1997/1998 sampling year, in which 10 metals exceeded groundwater standards in one or more quarters. Also, cadmium and antimony, which were detected above standards in several downgradient wells during the previous year, did not exceed standards in any downgradient wells during the 1998/1999 sampling year.

3.1.2 Shallow Groundwater Quality

A total of fifteen VOCs were detected in sump samples, seven of which exceeded groundwater standards in one or more samples (Table 3.2). All VOC concentrations were less than one order of magnitude above standards. Sumps S-1 and S-3 contained no concentrations above groundwater standards for either round. VOCs above standards were detected in Sump S-2 in the first and second rounds, and in Sump S-4 in the second round (S-4 was not sampled during the first round). Carbon disulfide was detected in the second round of samples, ranging in concentration from 7 ug/l to 38 ug/l. However, this same compound was also detected in equipment and trip blanks at concentrations ranging from 6 ug/l to 33 ug/l (Appendix A). All

VOC detections were of similar chemical constituent and concentration as one or more quarterly rounds from the previous year.

A total of twelve SVOCs (excluding PAHs) were detected, eight of which occurred at concentrations exceeding groundwater standards for one or more samples. The compound 2,4-dimethylphenol was found in concentrations exceeding groundwater standards in all samples, except in S-3 during the first round. The highest concentrations and greatest frequency of SVOCs exceeding groundwater standards occurred in S-1.

Seventeen PAHs (all those analyzed) were detected in the sump samples, thirteen of which were detected in concentrations above groundwater standards. Sump S-1 contained the greatest number of PAHs, and at the greatest concentrations for most detected compounds. All SVOC and PAH detections were of similar frequency (within a sample), and similar concentrations as one or more quarterly sampling events from the 1997/1998 sampling year.

A total of 16 pesticides were detected, two of which were detected at concentrations above groundwater standards. All concentrations were less than one order of magnitude above standards. Concentrations of detected pesticides were extremely low, and in almost all cases were estimated below the method detection limits. The greatest frequency of pesticides exceeding standards occurred in S-1 during the first round, but were at very low concentrations, typically in the parts per trillion range. There were no pesticides found above groundwater standards in S-3 during the first round of sampling. The total number of pesticides detected decreased from 19 during the 1997/1998 sampling year, to 16 during the 1998/1999 sampling year. The number of detections exceeding groundwater standards also decreased from eight during the previous year to two this past year.

PCBs were detected at concentrations above groundwater standards in the first and second rounds of sampling in S-1 and S-2, and during the second round in S-4. Concentrations varied from one order of magnitude above groundwater standards in S-2 and S-3, to three orders of magnitude greater in S-1. The frequency and concentrations of PCB detections is comparable to one or more quarters during the 1997/1998 sampling year.

A total of 21 TAL metals were detected in one or more samples, five of which were detected at concentrations exceeding groundwater standards. Concentrations of sodium were detected above standards in both rounds in all samples. Concentrations varied from less than one order of magnitude above standards to two orders of magnitude above standards. The total number of metals detected decreased from 24 during the previous year. Also, the number of detections exceeding groundwater standards decreased from eleven from the1997/1998 sampling year.

3.2 SURFACE WATER QUALITY

One surface water sample SW-1 (from the northernmost channel) was collected during the second round. Only one metal, antimony, exceeded NYSDEC Class A Surface Water Standards. Antimony exceeded the standard by less than one order of magnitude. Any organic compounds detected were at concentrations below the surface water standards.

3.3 EFFECTIVENESS OF RECOVERY WELL SYSTEM

The intermediate/deep groundwater extraction system achieved the objective of preventing offsite migration to adjoining properties and to the Niagara River. This section discusses the effectiveness of the system, and presents water level and operational field data supporting this conclusion.

3.3.1 System Description

The intermediate/deep groundwater extraction system consists of 11 recovery wells, with screens penetrating the intermediate/deep zone. The purpose of the extraction system is to prevent migration of intermediate/deep groundwater to adjoining properties and the Niagara River. Screen lengths vary from approximately 15 to 20 feet. Screen bottom elevations range from 534 to 547, and screen top elevations range from 550 to 557. Details concerning the extraction system are provided in the October 1999 Cherry Farm/River Road Construction Certification Report.

The water level in each recovery well was maintained at an elevation of between approximately 560 to 561 feet National Geodetic Vertical Datum (NGVD) by conductivity water level sensors, as originally designed. Following the review of the 1998 Annual Post-Construction Groundwater Monitoring Report, the NYSDEC requested that drawdown be increased in certain areas adjacent to the river. To increase drawdown and capture zone areas adjacent to the river, the water level sensors were lowered by approximately four feet in RW-1 through RW-9 on October 19, 1998. The combined average pumping rate from the 11 wells during the past year was approximately 15 gallons per minute (gpm). A groundwater conveyance system transported collected groundwater from the recovery wells to an onsite groundwater treatment plant, with final discharge to the Town of Tonawanda sewer system.

3.3.2 System Effectiveness

Pre-extraction water levels of all recovery wells and monitoring wells indicated a relatively flat hydraulic gradient, with less than a one-foot drop in water levels from the east side to the west side of the Site, over a distance of 1,000 feet. Water level contours parallel the river shoreline, with groundwater flowing directly to the river. Based on staff gauge data, the river elevation has varied from approximately 566.0 feet in August 1998, to 565.0 feet in February 1999. The flat gradient is conducive to creating a capture zone, because even relatively small amounts of drawdown near the river are sufficient to alter the natural gradient, preventing offsite migration of groundwater in this zone.

Water level contour maps were constructed from four representative measurement events during the reporting period to show hydraulic gradients across the Site, particularly within the western half of the Site, adjacent to the river (Figures 3.1 through 3.4). As can be noted from the Figures 3.1 and 3.2, sufficient drawdown was maintained throughout the period to create a barrier to offsite migration of groundwater, but the capture zones and gradients from the river towards the recovery wells were marginal in some areas. Figure 3.2 shows water levels shortly after the lowering of the floats in the recovery wells. Increased drawdown is apparent near the

wells at RW-1, RW-2, and RW-3. However, not enough time has elapsed for the drawdown to be observed at appreciable distances from the wells. Figures 3.3 and 3.4 indicate that the lowering of the floats resulted in monitoring well water levels dropping below the "typical" river stage elevations.

Figures 3.5a through 3.5c show water levels of the extraction wells through time. Water level data for the recovery wells, monitoring wells, sumps, and observation wells is presented in Table 2.2. Water levels in the recovery wells, on average, are currently being maintained at nine to ten feet below the pre-extraction water levels measured on August 8, 1997, or an elevation between 556 and 557 feet. Occasionally, water levels deviated from these elevations due to routine maintenance of the pumps, lines, or groundwater treatment facility; or due to mechanical failures associated with the pumps, float malfunction, or electrical outages, as indicated in Table 2.3.

Monitoring well hydrographs, presented on Figures 3.6a, b, and c provide further evidence that the recovery wells were producing drawdown in the surrounding formation. Following the lowering of the water levels within the recovery wells, water levels showed a distinct decline and have generally remained below the original design water levels.

3.4 EFFECTIVENESS OF SHALLOW COLLECTION TRENCH

3.4.1 System Description

The shallow collection trench consists of a series of four shallow trenches filled with a granular drainage material, and lined with an impermeable geomembrane on the riverside trench wall. The system was designed as a groundwater sink to capture shallow groundwater and LNAPL. Four sumps, located within the trenches, pump groundwater into a conveyance pipeline. This pipeline then conveys the water to an oil-water separator at the onsite treatment plant. The sumps were pumped at a rate of approximately 3 gpm each, or a total of 12 gpm.

Eleven observation wells were installed to monitor groundwater elevations and hydraulic gradients in the vicinity of the trenches. Six observation wells (OW-1, OW-3, OW-4, OW-6, OW-7, and OW-8) were installed adjacent to the trench system on the upgradient side. Observation wells OW-2 and OW-5 were installed further upgradient, at 14 feet (elevation) above the trenches. OW-9 was installed 15 feet above the trenches, adjacent to the former SDA.

3.4.2 System Effectiveness

The shallow collection trench system is operating as planned, with flow rates very close to those predicted during the design phase. No surface overflows were observed from the trench during the reporting period, with the exception of the temporary shutdown period during dredging operations (see Section 3.4.3). Hydraulic gradients from east to west were maintained between the Site and the trench, as designed, resulting in continuous groundwater flow into the collection trench.

Figures 3.7 and 3.8 portray hydrographs of the sumps and shallow observation wells, respectively. The water levels in a majority of the observation wells were within one foot of each other, and responded similarly to fluctuations in water levels from precipitation and seasonal variations. Water levels in OW-2, OW-5, and OW-9 were measurably higher than the sump levels and the observation wells adjacent to the trench, as expected, due to their higher elevations. In addition, OW-6, OW-7, OW-8, and OW-9 were influenced by water seeping from the SDA during dredging activities from August through November 1998. Once dredging activities were concluded in November 1998, the water levels returned to normal.

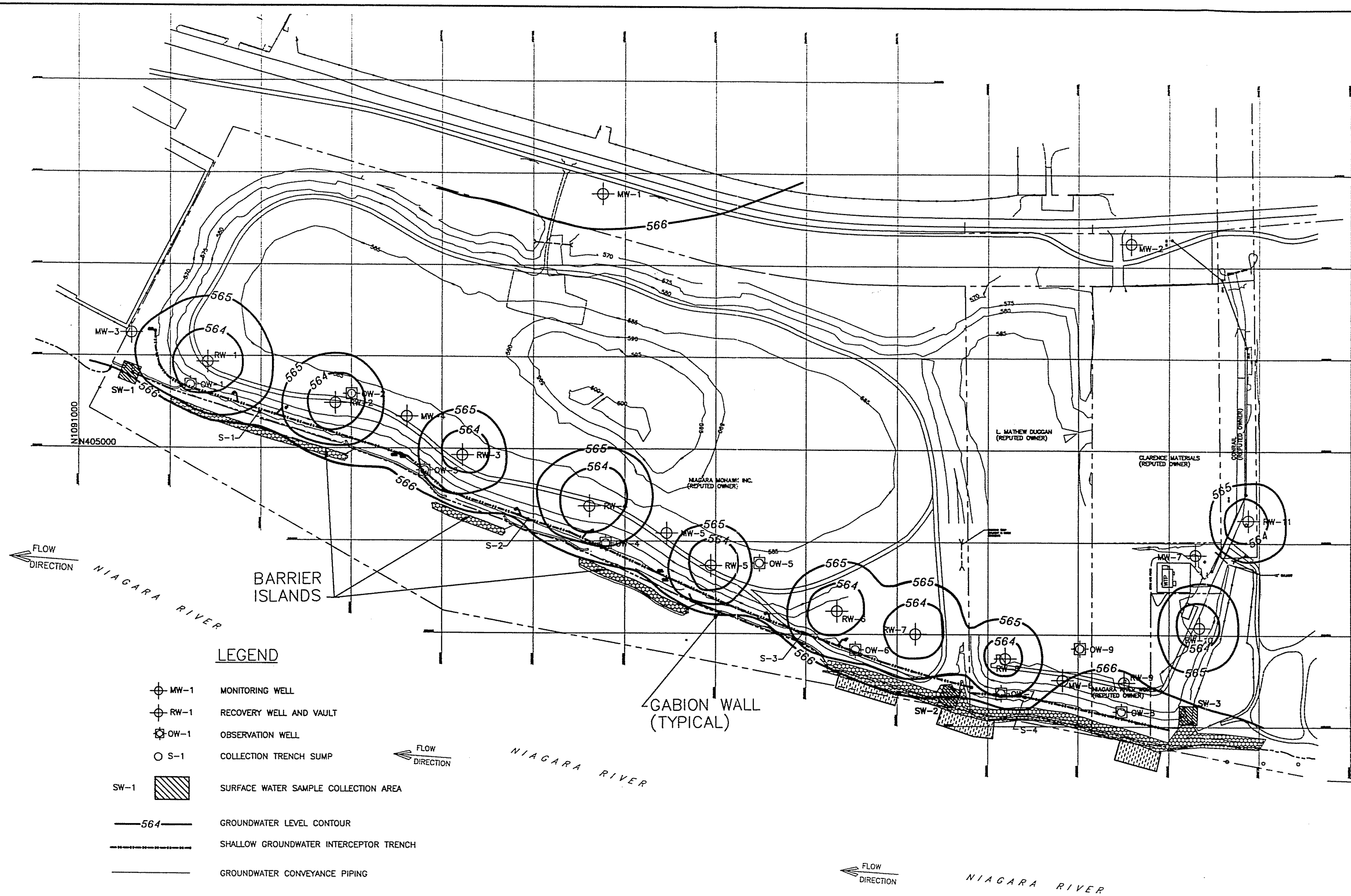
LNAPL was observed in S-1 during all but two monitoring events, ranging in thickness from 0.125 inches to 0.25 inches.

3.5 INFLUENCE OF DREDGING ACTIVITY

Hydraulic dredging of river sediments commenced at the Cherry Farm/River Road Site in August 1998 (see May 1998 Remedial Design Report for Sediment Removal for details). The water/sediment slurry from the hydraulic dredging process was pumped via pipeline directly into the onsite SDA for settling and discharge to the river. The water pumped to the SDA during dredging produced a measurable impact on water levels in the adjacent observation wells and sumps. Because of the significant increase in flow to the trench, the sumps were unable to maintain the water levels in the trench below the electrical utilities. With concurrence from the NYSDEC, Sumps S-3 and S-4 were temporarily shut down until dredging activities were completed. In addition, water was pumped from S-4, back into the SDA, using a centrifugal pump to prevent overflow of Sump S-4, and to minimize seepage along the slope in the vicinity of the SDA. Sump S-3 returned to normal operation on October 24, 1998, and Sump S-4 returned to normal operation on December 16, 1998.

VOC and SVOC analytical results indicated little to no contamination in the sample from S-3 during October 1998. (Table 3.2) Chemical concentrations increased in S-3 in April 1999. The October 1998 concentrations were anomalous compared to the previous quarterly sampling events and the April 1999 event. It is possible that river water seeping from the SDA during dredging operation temporarily diluted the groundwater in the area of S-3. When dredging was terminated, concentrations returned to previous levels by April 1999.

The hydraulic impact of adding water to the SDA on the intermediate/deep zone was much less pronounced than in the shallow zone. Water levels in MW-6 and MW-7 appeared to rise and fall approximately 0.5 to 1.0 feet during filling/draining of the SDA. This suggests vertical downward leakage from the shallow to the intermediate/deep zone on the River Road property. Alternatively, the rise in water levels may be associated with compression of the intermediate/deep zone sediments, due to the weight of the overlying water in the SDA.



APPROXIMATE RIVER ELEVATION 566.0'

MW	27-AUG-98 ELEV IN FEET
1	566.03
2	565.92
3	565.26
4	565.65
5	565.66
6	565.77
7	565.99

RW	27-AUG-98 ELEV IN FEET
1	560.74
2	560.29
3	560.71
4	559.75
5	559.77
6	560.64
7	560.30
8	561.60
9	566.15
10	560.49
11	560.90

NOTE: RW-9 OFF

LEGEND

MW-1 MONITORING WELL

RW-1 RECOVERY WELL AND VAULT

OW-1 OBSERVATION WELL

S-1 COLLECTION TRENCH SUMP

SW-1 SURFACE WATER SAMPLE COLLECTION AREA

564 GROUNDWATER LEVEL CONTOUR

SHALLOW GROUNDWATER INTERCEPTOR TRENCH

GROUNDWATER CONVEYANCE PIPING

575 FINAL GRADE CONTOUR

RIPRAP SHORELINE

SEDIMENT CAP (IN RIVER)

300 150 0 300 600

SCALE: 1"=300'

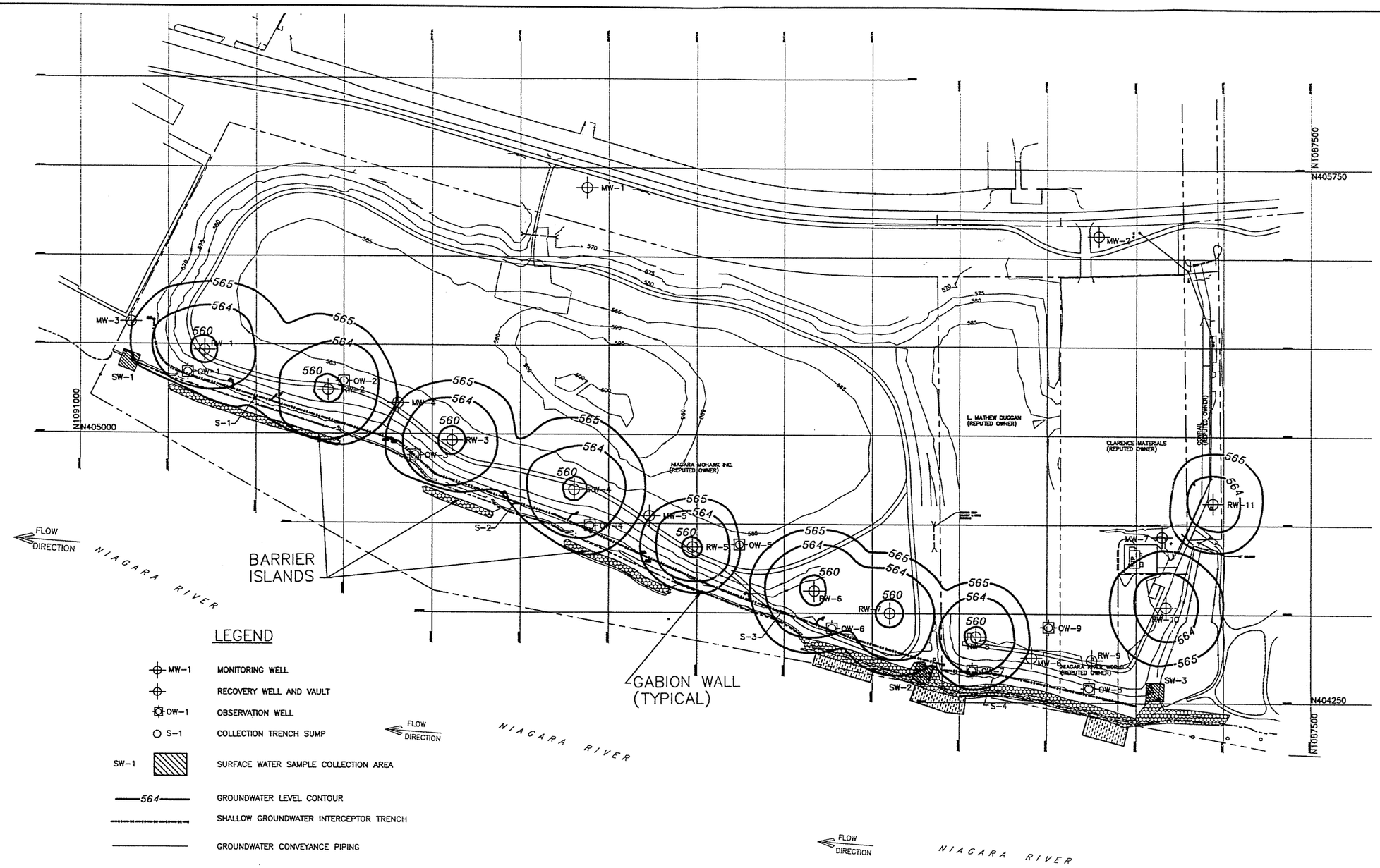
DATE: 10/19/99 (FCW)
FILE: P:\734308\CAD\34308G02.DWG
SCALE: PAPER SCALE, 1=300
XREF'S: NONE

FIGURE 3.1

CHERRY FARM/RIVER ROAD SITE

GROUNDWATER CONTOURS
AUGUST 27, 1998

PARSONS ENGINEERING SCIENCE, INC.
DESIGN * RESEARCH * PLANNING
290 ELWOOD DAVIS ROAD * SUITE 312 * LIVERPOOL, N.Y. 13088 * 315/451-9560
OFFICES IN PRINCIPAL CITIES



APPROXIMATE RIVER ELEVATION 565.8'

MW	21-OCT-98 ELEV IN FEET
1	565.73
2	565.65
3	565.08
4	565.38
5	565.22
6	565.40
7	565.40

RW	21-OCT-98 ELEV IN FEET
1	556.47
2	556.21
3	555.75
4	557.32
5	556.63
6	555.56
7	555.70
8	556.71
9	565.55
10	559.97
11	560.48

NOTE: RW-9 OFF

LEGEND

- MW-1 — MONITORING WELL
- RECOVERY WELL AND VAULT
- OW-1 — OBSERVATION WELL
- S-1 — COLLECTION TRENCH SUMP
- SW-1 — SURFACE WATER SAMPLE COLLECTION AREA
- 564 — GROUNDWATER LEVEL CONTOUR
- SHALLOW GROUNDWATER INTERCEPTOR TRENCH
- GROUNDWATER CONVEYANCE PIPING
- 575 — FINAL GRADE CONTOUR
- RIPRAP SHORELINE
- SEDIMENT CAP (IN RIVER)

300 150 0 300 600

SCALE: 1"=300'

DATE: 10/19/99 (FCW)
FILE: P:\734308\CAD\34308G03.DWG
SCALE: PAPER SCALE, 1=300
XREF'S: NONE

FIGURE 3.2

CHERRY FARM/RIVER ROAD SITE

GROUNDWATER CONTOURS
OCTOBER 21, 1998

PARSONS ENGINEERING SCIENCE, INC.
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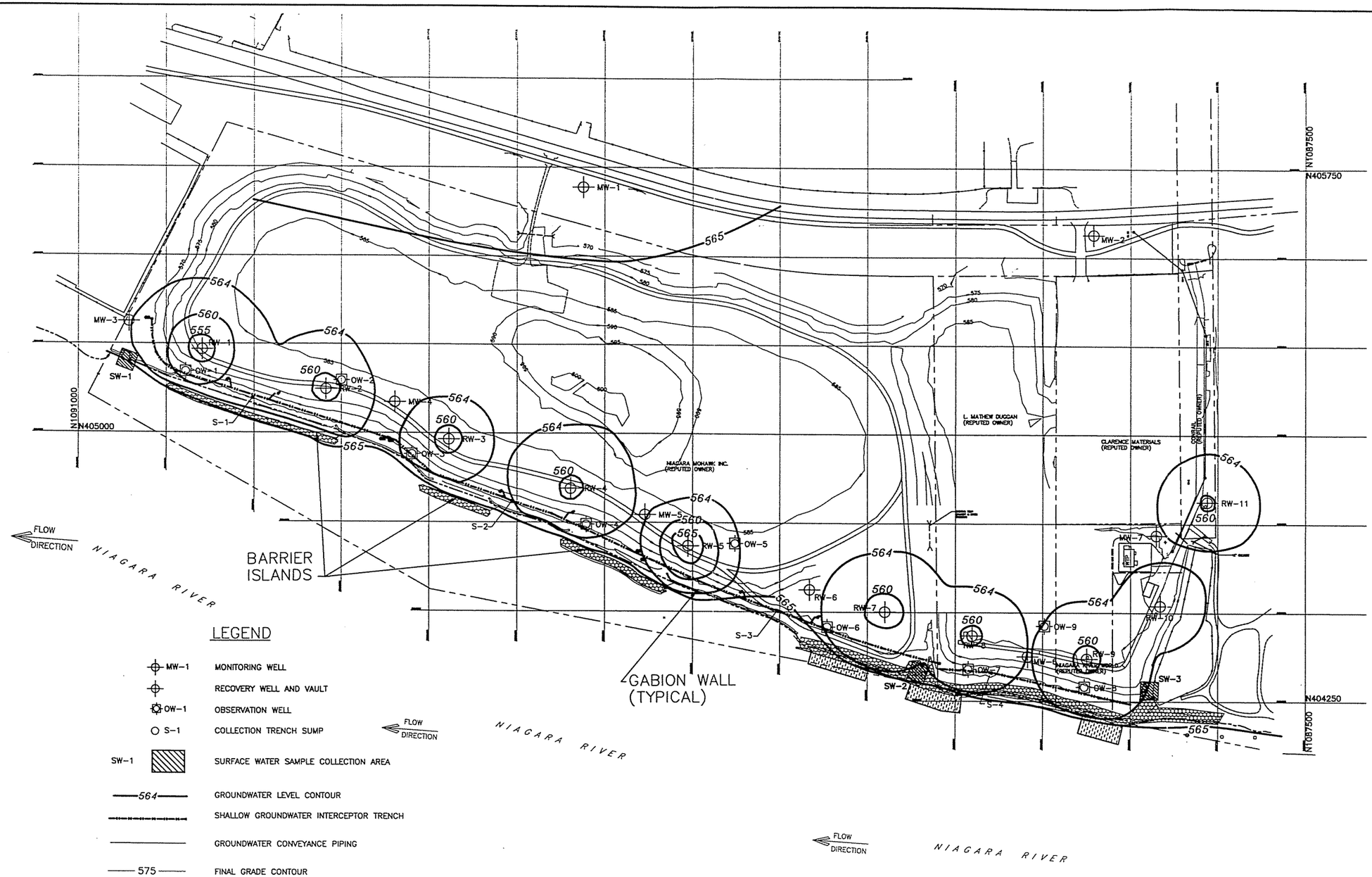

APPROXIMATE RIVER ELEVATION 565.0'

MW	22-FEB-99 ELEV IN FEET
1	565.03
2	564.87
3	564.47
4	564.71
5	564.35
6	564.02
7	564.64

RW	22-FEB-99 ELEV IN FEET
1	546.91
2	556.01
3	555.59
4	556.92
5	544.21
6	564.47
7	555.77
8	557.72
9	556.08
10	560.25
11	558.36

NOTE: RW-6 OFF

LEGEND

- MW-1 — MONITORING WELL
- RECOVERY WELL AND VAULT
- OW-1 — OBSERVATION WELL
- S-1 — COLLECTION TRENCH SUMP
- SW-1 — SURFACE WATER SAMPLE COLLECTION AREA
- 564 — GROUNDWATER LEVEL CONTOUR
- SHALLOW GROUNDWATER INTERCEPTOR TRENCH
- GROUNDWATER CONVEYANCE PIPING
- 575 — FINAL GRADE CONTOUR
- RIPRAP SHORELINE
- SEDIMENT CAP (IN RIVER)

300 150 0 300 600

SCALE: 1"=300'

DATE: 10/19/99 (FCW)
FILE: P:\734308\CAD\34308G04.DWG
SCALE: PAPER SCALE, 1=300
XREF'S: NONE

FIGURE 3.3

CHERRY FARM/RIVER ROAD SITE

GROUNDWATER CONTOURS
FEBRUARY 22, 1999

PARSONS ENGINEERING SCIENCE, INC.
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290 ELWOOD DAVIS ROAD * SUITE 312 * LIVERPOOL, N.Y. 13088 * 315/451-9560
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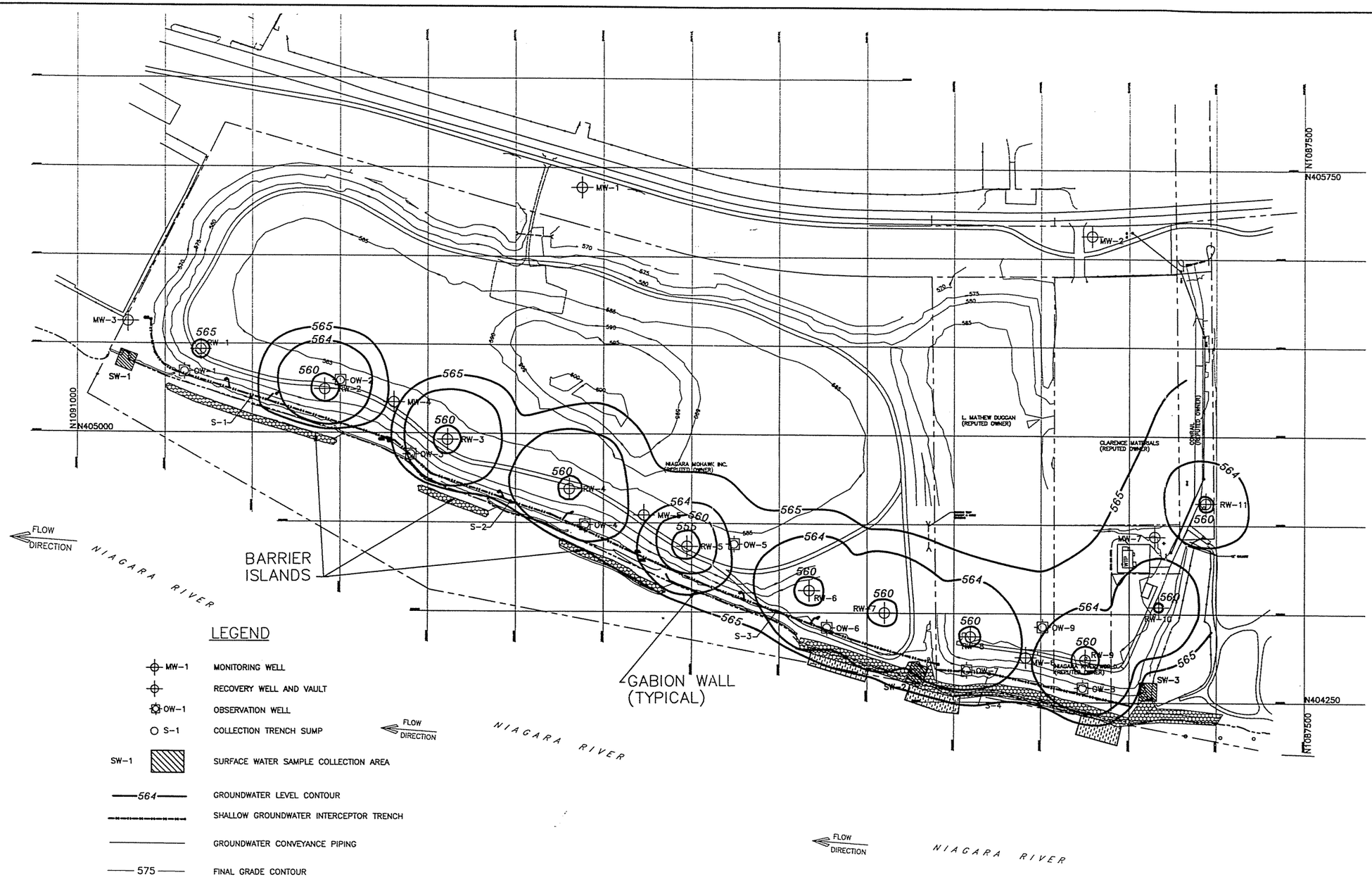

LEGEND

- MW-1 — MONITORING WELL
- RECOVERY WELL AND VAULT
- OW-1 — OBSERVATION WELL
- S-1 — COLLECTION TRENCH SUMP
- SW-1 — SURFACE WATER SAMPLE COLLECTION AREA
- 564 — GROUNDWATER LEVEL CONTOUR
- SHALLOW GROUNDWATER INTERCEPTOR TRENCH
- GROUNDWATER CONVEYANCE PIPING
- 575 — FINAL GRADE CONTOUR
- RIPRAP SHORELINE
- SEDIMENT CAP (IN RIVER)

APPROXIMATE RIVER ELEVATION 565.0'

MW	19-APR-99 ELEV IN FEET
1	565.51
2	565.20
3	565.19
4	565.12
5	564.64
6	564.33
7	564.79

RW	19-APR-99 ELEV IN FEET
1	564.97
2	556.42
3	555.63
4	556.52
5	544.37
6	555.36
7	555.71
8	556.93
9	556.31
10	559.83
11	558.27

NOTE: RW-1 OFF

300 150 0 300 600

SCALE: 1"=300'

DATE: 10/19/99 (FCW)
FILE: P:\734308\CAD\34308G05.DWG
SCALE: PAPER SCALE, 1=300
XREF'S: NONE

FIGURE 3.4

CHERRY FARM/RIVER ROAD SITE

GROUNDWATER CONTOURS
APRIL 19, 1999

PARSONS ENGINEERING SCIENCE, INC.
DESIGN * RESEARCH * PLANNING
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Figure 3.5a
Cherry Farm/River Road Site
Recovery Well Hydrographs (RW-1,2,3)

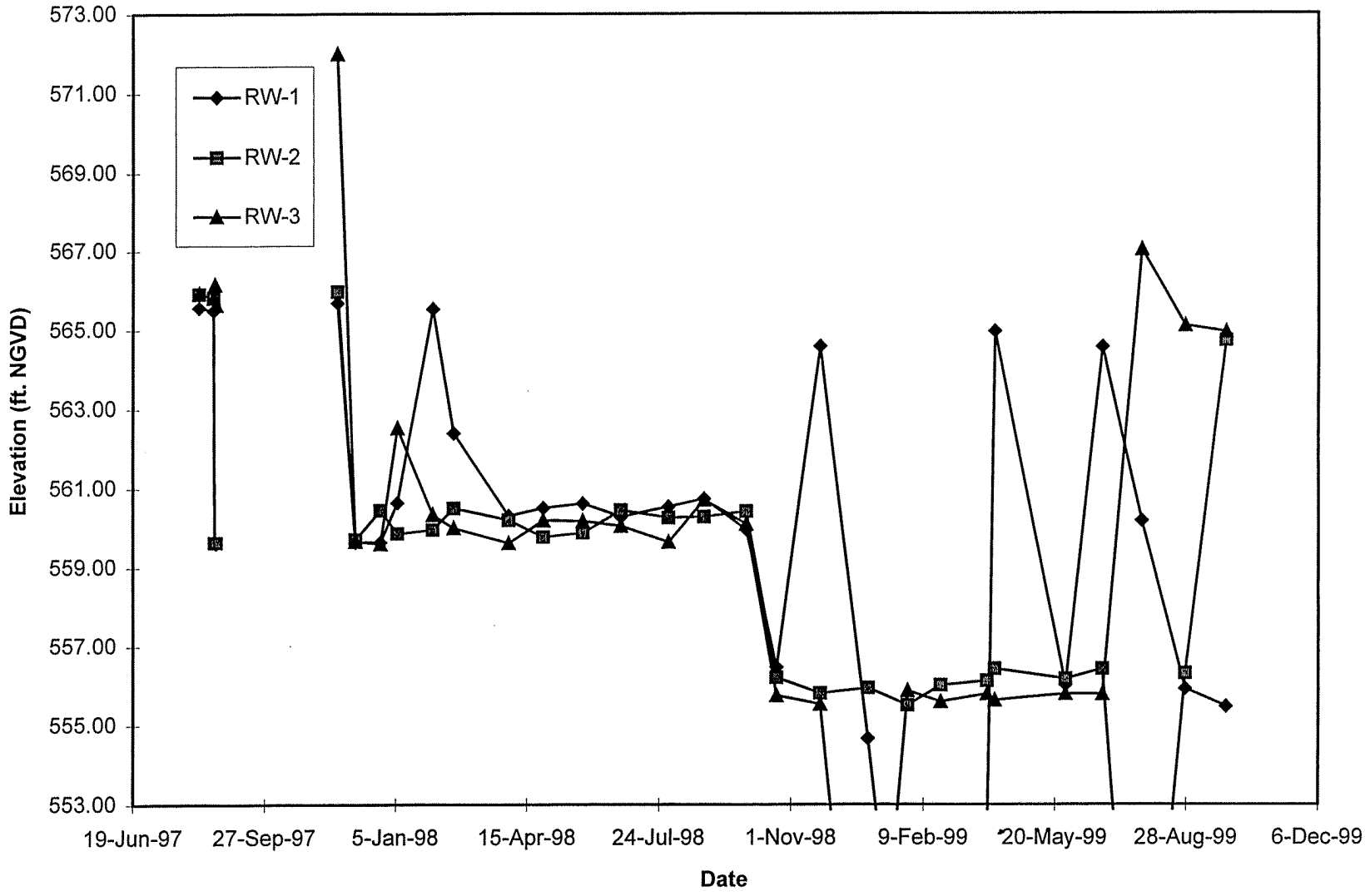

Figure 3.5b
Cherry Farm/River Road Site
Recovery Well Hydrographs (RW-4,5,6,7)

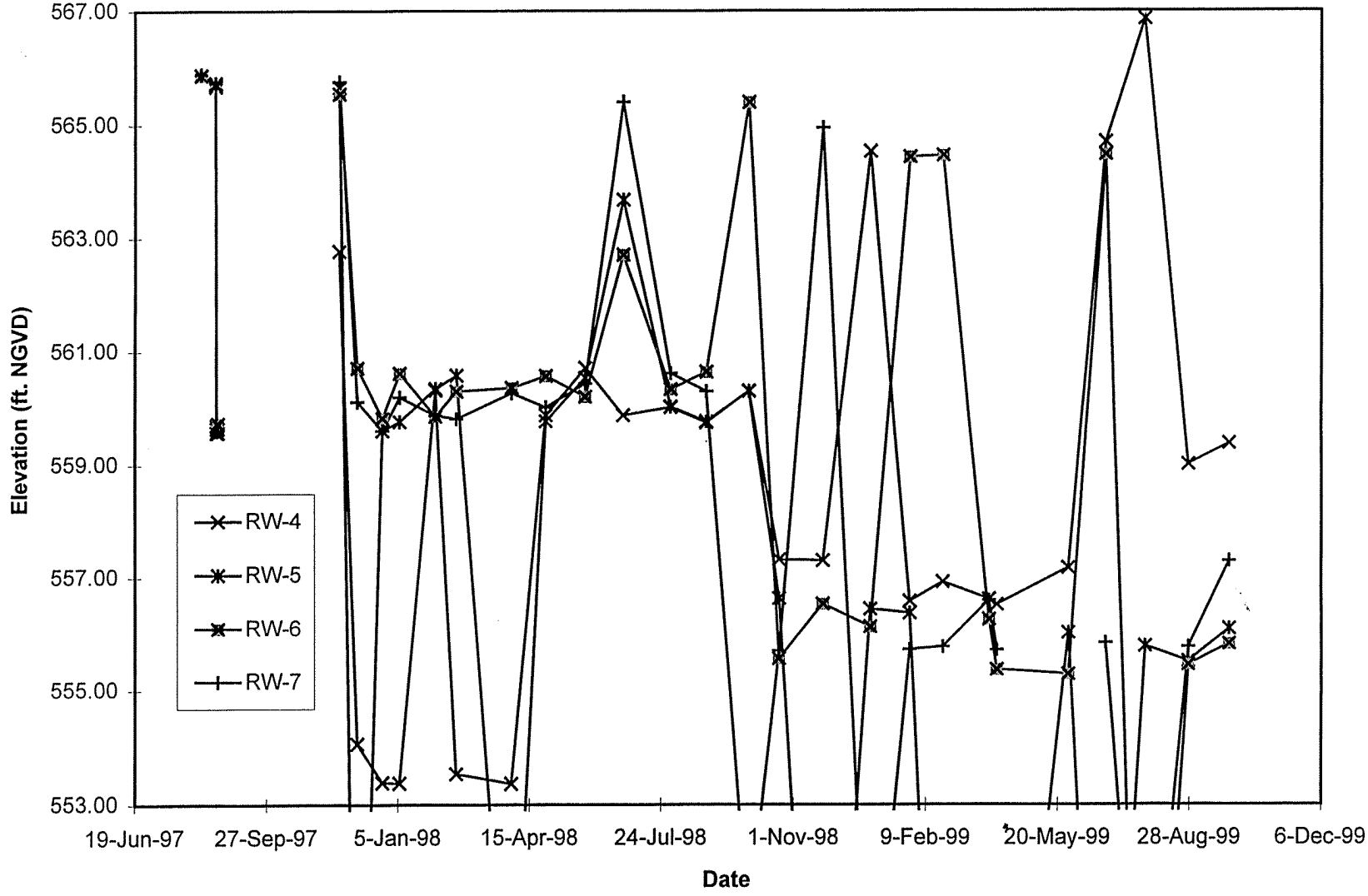

Figure 3.5c
Cherry Farm/River Road Site
Recovery Well Hydrographs (RW-8,9,10,11)

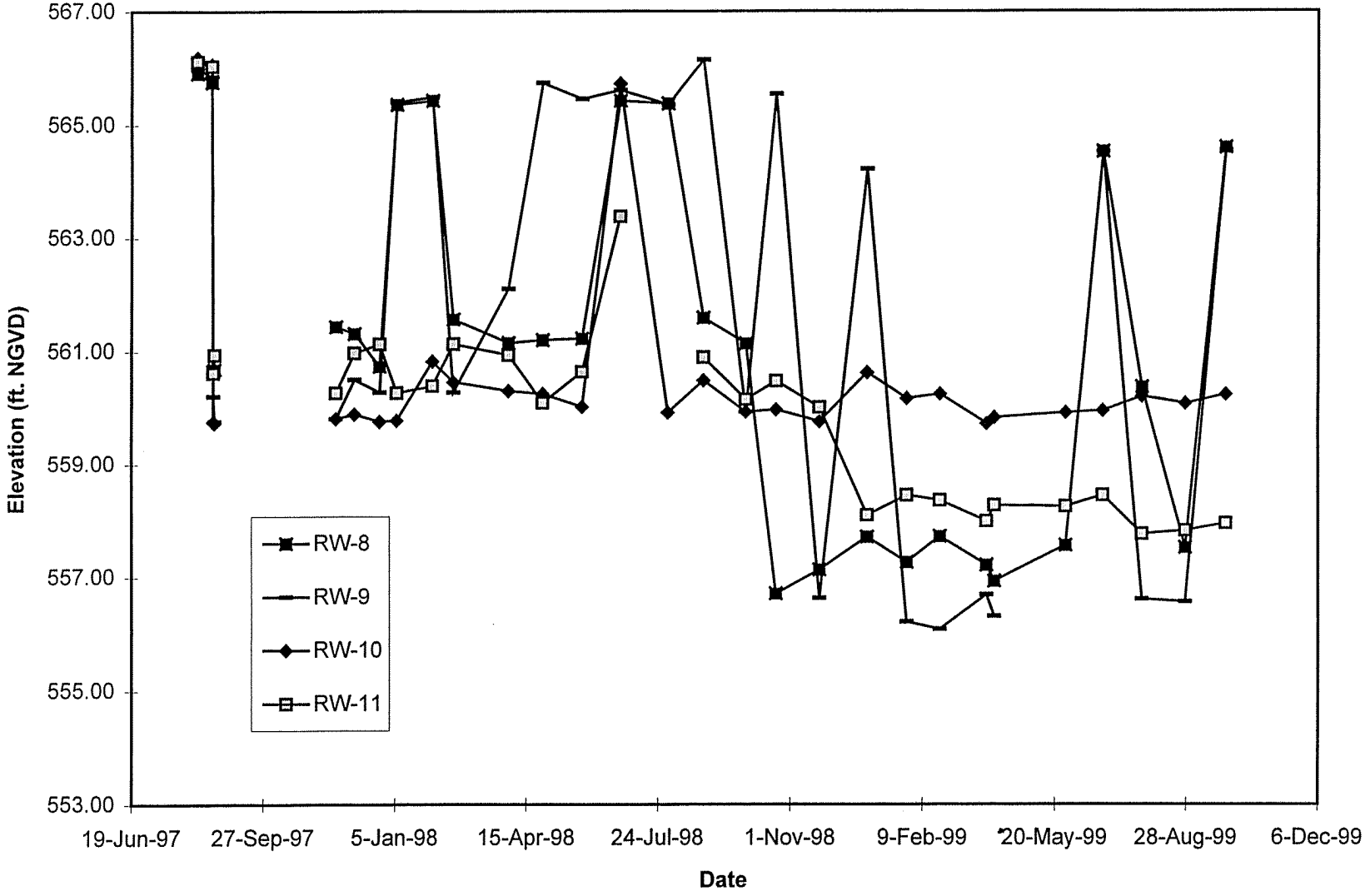

Figure 3.6a
Cherry Farm/River Road Site
Monitoring Well Hydrographs MW-1,2,3 (August, 1997 - September, 1998)

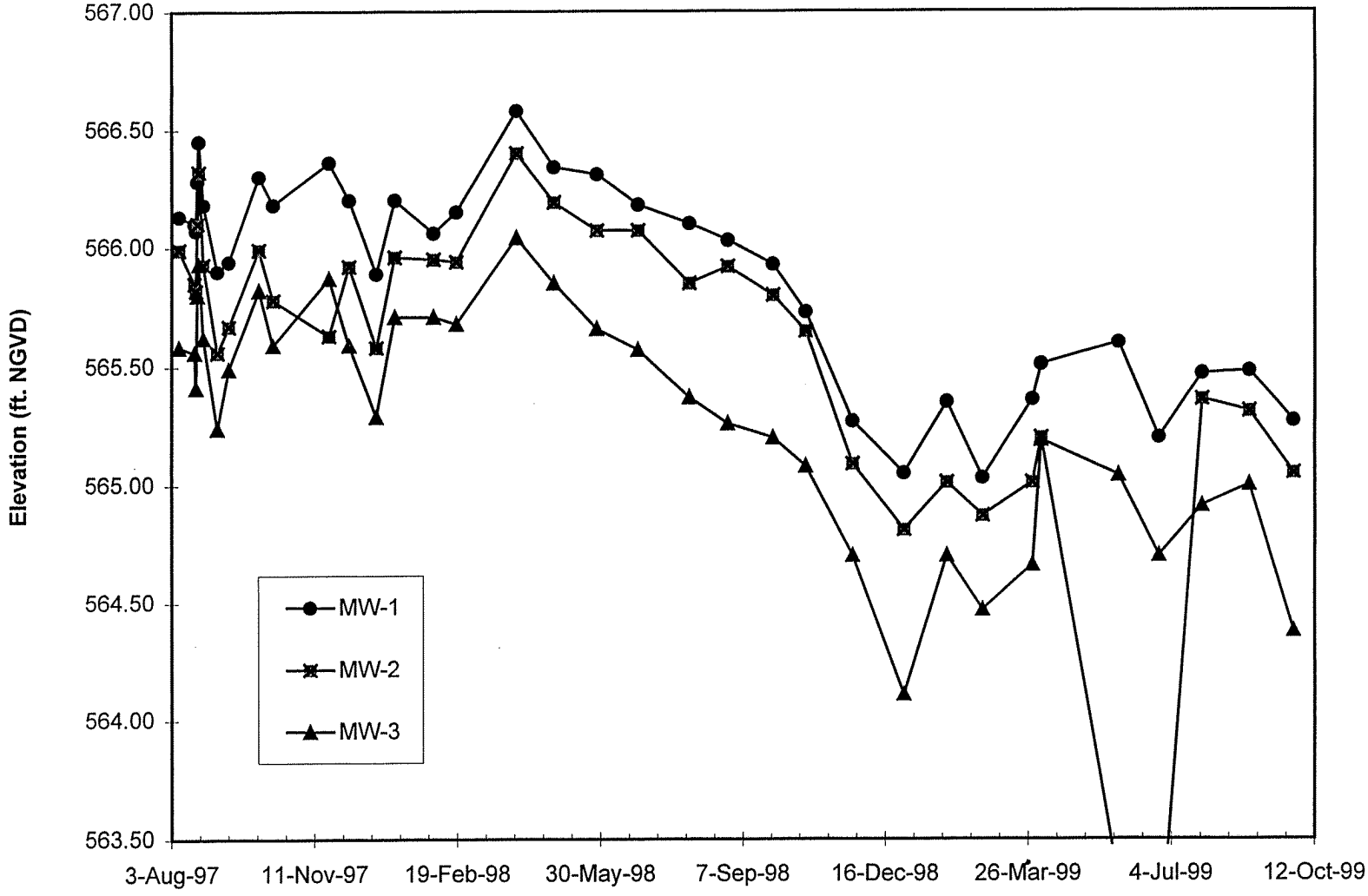

Figure 3.6b
Cherry Farm/River Road Site
Monitoring Well Hydrographs MW-4,5 (August, 1997 - September, 1998)

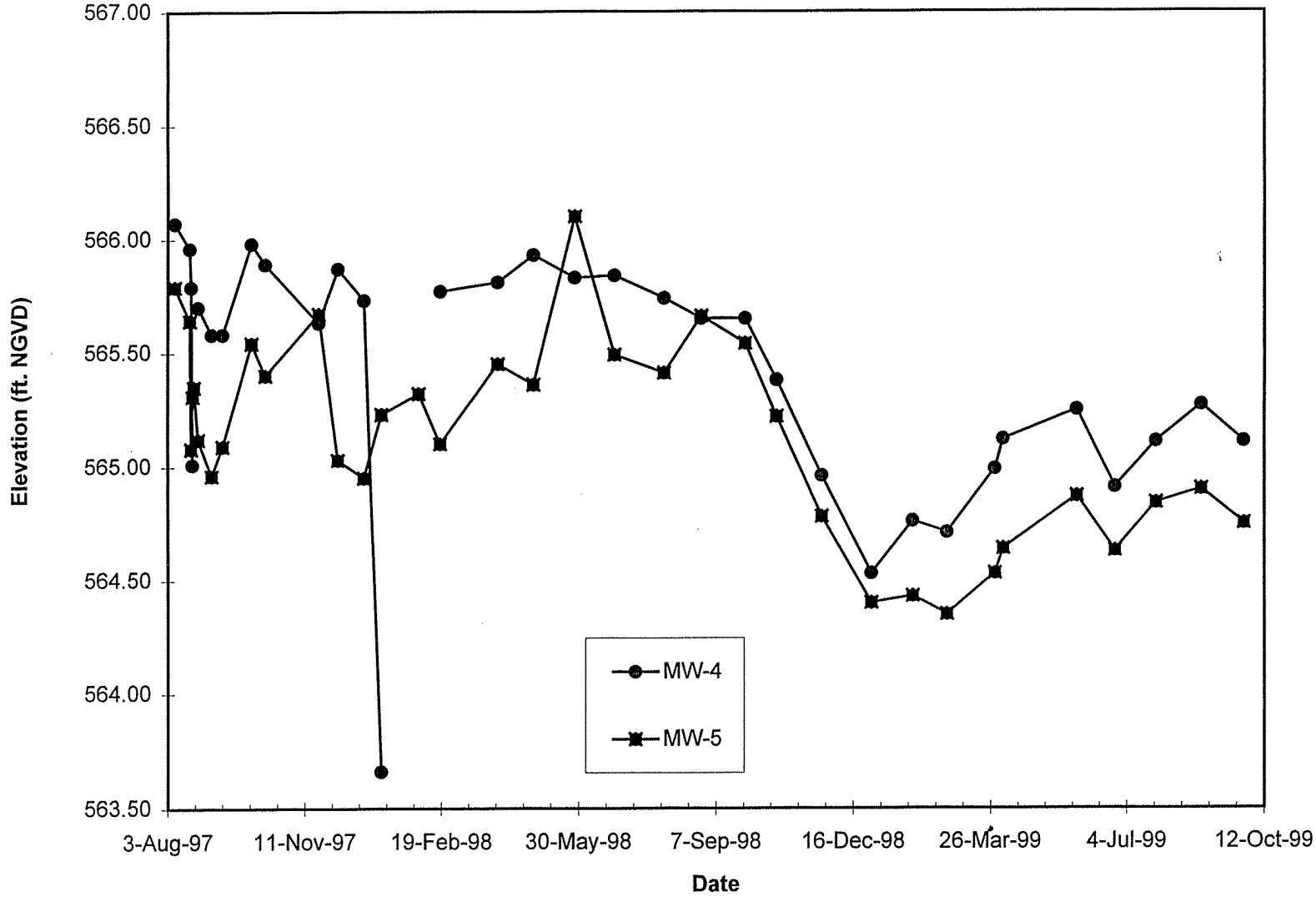

Figure 3.6c
Cherry Farm/River Road Site
Monitoring Well Hydrographs MW-6,7 (August, 1997 - September, 1998)

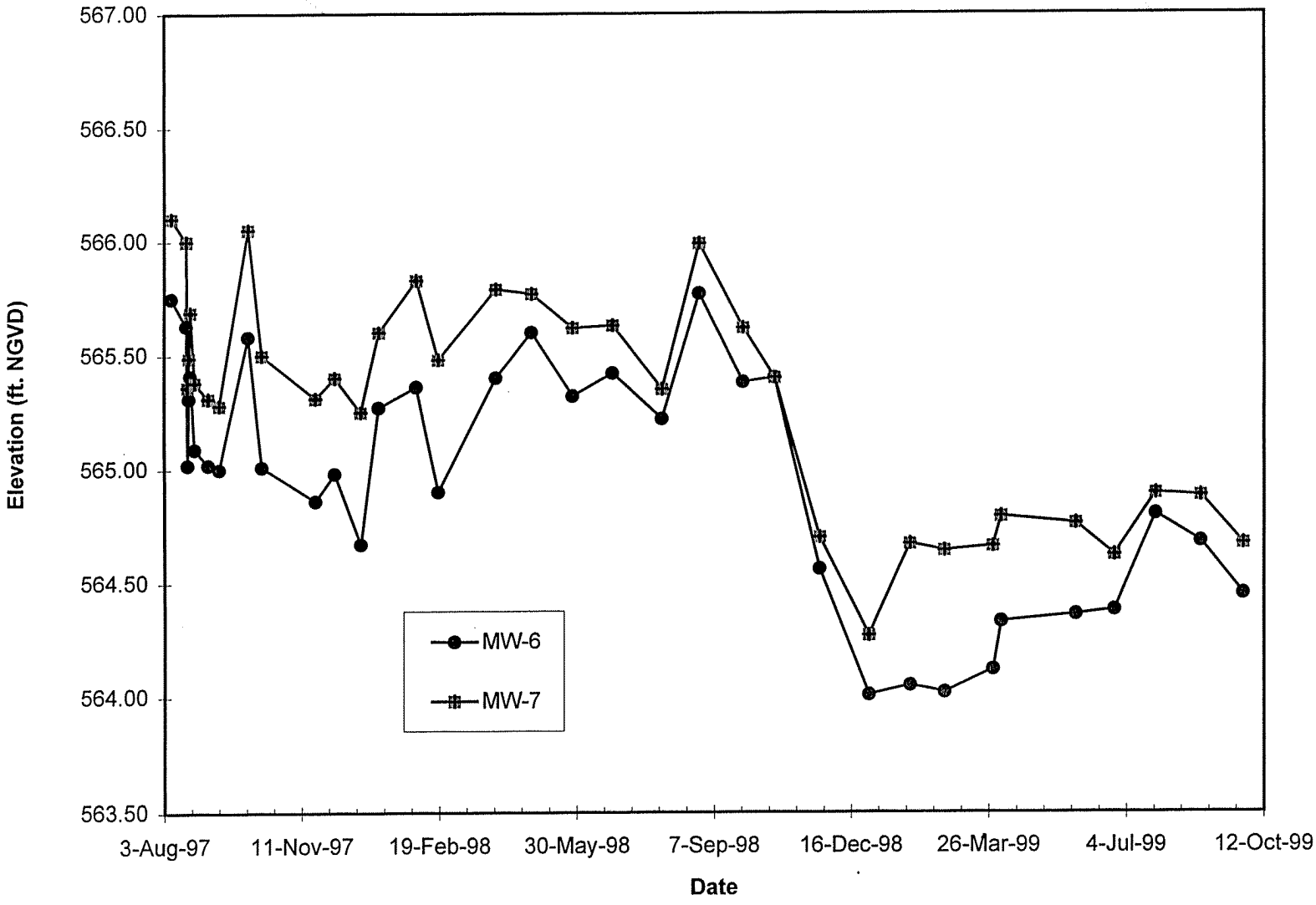

Figure 3.7
Cherry Farm/River Road Site
Sump Hydrographs

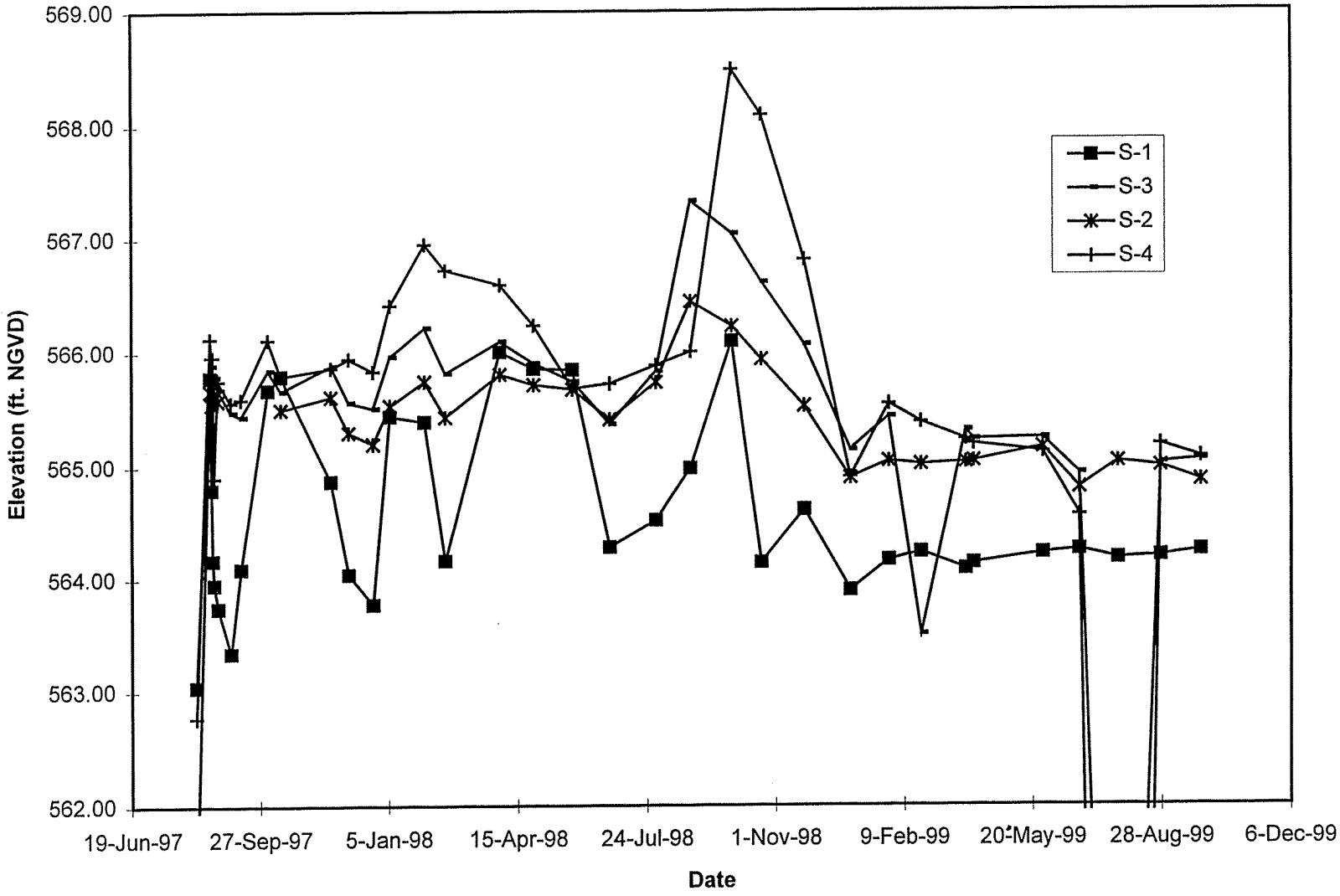

Figure 3.8
Cherry Farm/River Road Site
Observation Well Hydrographs

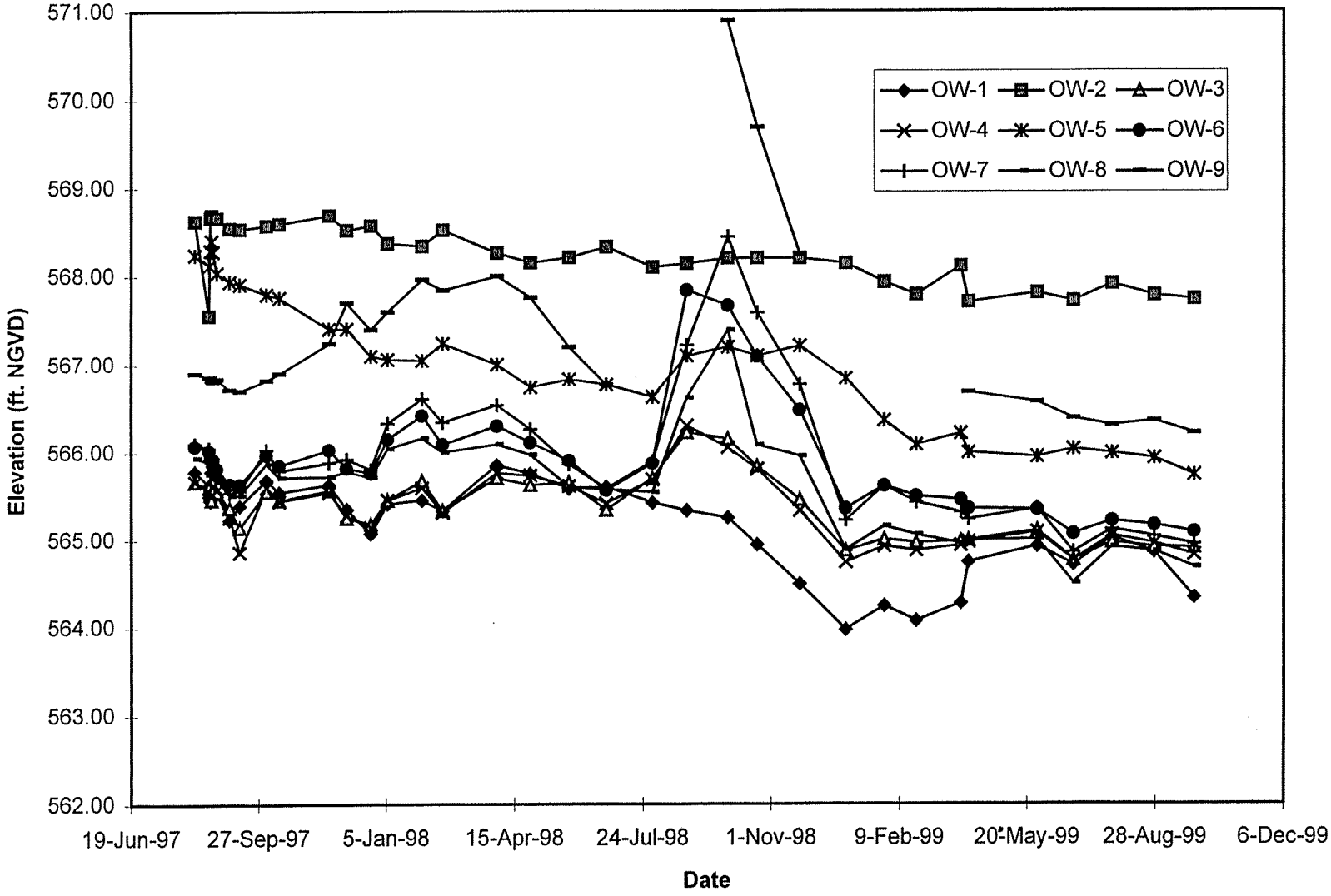

TABLE 3.1

Detected Compound Summary
Monitoring Well Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-1 J8338 OB 9571 Water 10/21/98	MW-1 M0188 OB 1489 Water 4/19/99	MW-2 J8340 OB 9571 Water 10/21/98	MW-2 M0190 OB 1489 Water 4/20/99	MW-3 J8484 OB 9595 Water 10/22/98	MW-3 M0191 OB 1489 Water 4/20/99
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	4 J	5 JB	4 J	ND	4 J	6 JB
71-43-2	Benzene	1	ug/L	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L	ND	19	ND	2 J	ND	5 J
100-41-4	Ethylbenzene	5	ug/L	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	2 J	1 JB	2 J	ND	2 J	2 JB
100-42-5	Styrene	5	ug/L	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L	ND	ND	ND	ND	ND	ND
	SEMIVOLATILES								
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	ND	ND
	PAHs								
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND	ND	ND	ND
	Total PAHs	10 (G)		ND	ND	ND	ND	ND	ND
	PESTICIDES								
309-00-2	Aldrin	0 ND	ug/L	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	0.0007 JP	ND	ND
60-57-1	Dieldrin	0.004	ug/L	ND	ND	ND	ND	ND	0.0024 JP
959-98-8	Endosulfan I	NS	ug/L	ND	0.003 JP	ND	0.0012 JP	ND	0.0013 JP
33213-65-	Endosulfan II	NS	ug/L	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0022 BJP	0.0013 JP	ND	0.00092 JP	0.011 BJP	0.0015 JP
72-20-8	Endrin	0 ND	ug/L	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	0.0048 JP	ND	ND	ND
53494-70-	Endrin ketone	5	ug/L	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	0.04	ug/L	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	0.0038 J	ND	0.0024 JP	ND	0.0052 JP
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	0.01 BJP	ND	0.0089 BJ	ND	0.00093 BJP
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	0.05	ug/L	ND	ND	ND	0.0051 JP	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	0.0024 JP	0.008 BJP	0.0016 JP	0.013 BJP	0.001 JP	0.014 BJP
	INORGANCS								
7429-90-5	Aluminum	NS	ug/L	2730	830	17900	12100	789	665
7440-36-0	Antimony	3 (G)	ug/L	1.7 B	3.2 B	ND	2.9 B	ND	2.1 B
7440-38-2	Arsenic	25	ug/L	23.9	24.5	34.6	27.5	6.2 B	2.6 B
7440-39-3	Barium	1000	ug/L	353	353 E	260	180 BE	157 B	153 BE
7440-41-7	Beryllium	3 (G)	ug/L	0.14 B	0.38 B	0.88 B	0.71 B	0.15 B	0.15 B
7440-43-9	Cadmium	5	ug/L	ND	0.62 B	1.1 B	0.86 B	ND	ND
7440-70-2	Calcium	NS	ug/L	214000	222000	344000	347000	172000	149000
7440-47-3	Chromium	50	ug/L	11.5	9 B	103	56.3	12.7	9.4 B
7440-48-4	Cobalt	NS	ug/L	ND	ND	13.3 B	9.2 B	ND	ND
7440-50-8	Copper	200	ug/L	7.2 B	3.8 B	55.9	33.2	5 B	2.1 B
57-12-5	Cyanide	200	ug/L	ND	ND	ND	ND	ND	ND
7439-89-6	Iron	500 *	ug/L	13100	9120	38800	27200	20800	15900
7439-92-1	Lead	25	ug/L	4.5	3.4	39.2	26.7	2.1 B	ND
7439-95-4	Magnesium	35000 (G)	ug/L	53500	52700	109000	103000	43500	34700
7439-96-5	Manganese	300 *	ug/L	201	155	1000	949	734	654
7440-02-0	Nickel	100	ug/L	6.9 B	2.8 B	61.2	35 B	5.8 B	6.4 B
7440-09-7	Potassium	NS	ug/L	1390 B	1780 B	4200 B	4330 B	13100	9730
7782-49-2	Selenium	10	ug/L	2.3 B	ND	2 B	ND	ND	ND
7440-23-5	Sodium	20000	ug/L	33400	39100	18700	19100	104000	83100
7440-62-2	Vanadium	NS	ug/L	5.5 B	2.4 B	33.7 B	23.1 B	4.2 B	4.2 B
7440-66-6	Zinc	2000 (G)	ug/L	55.7	13.6 B	184	110	34.6	9.1 B

TABLE 3.1

Detected Compound Summary
Monitoring Well Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-3 RE M0191RE OB 1489 Water 4/20/99	MW-4 J8485 OB 9595 Water 10/22/98	MW-4 M0194 OB 1489 Water 4/20/99	MW-5 J8487 OB 9595 Water 10/22/98	MW-5 M0195 OB 1489 Water 4/20/99	MW-5 RE M0195RE OB 1489 Water 4/20/99
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	NA	4 J	9 J	19	7 J	NA
71-43-2	Benzene	1	ug/L	NA	ND	ND	110	110	NA
75-15-0	Carbon disulfide	NS	ug/L	NA	ND	11	ND	6 J	NA
100-41-4	Ethylbenzene	5	ug/L	NA	ND	ND	10 J	10 J	NA
75-09-2	Methylene chloride	5	ug/L	NA	2 J	ND	1 J	ND	NA
100-42-5	Styrene	5	ug/L	NA	ND	ND	1 J	2 J	NA
108-88-3	Toluene	5	ug/L	NA	ND	ND	28	15	NA
1330-20-7	Xylene (total)	5	ug/L	NA	ND	ND	40	40	NA
	SEMIVOLATILES								
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	23	18	17
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	4 J	3 J	4 J
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	1 J	6 J	7 J
108-95-2	Phenol	1	ug/L	ND	ND	ND	1 J	4 J	4 J
	PAHs								
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND	9 J	10 J	10 J
	Total PAHs	10 (G)		ND	ND	ND	9 J	10 J	10 J
	PESTICIDES								
309-00-2	Aldrin	0 ND	ug/L	NA	ND	ND	ND	0.0016 JP	NA
72-55-9	4,4'-DDE	0.2	ug/L	NA	ND	0.0007 JP	0.0011 JP	0.0014 JP	NA
50-29-3	4,4'-DDT	0.2	ug/L	NA	ND	ND	ND	ND	NA
60-57-1	Dieldrin	0.004	ug/L	NA	ND	ND	ND	0.0036 JP	NA
959-98-8	Endosulfan I	NS	ug/L	NA	ND	0.0043 JP	ND	0.0025 JP	NA
33213-65-	Endosulfan II	NS	ug/L	NA	0.0008 JP	ND	ND	ND	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	NA	0.0017 BJP	0.0042 JP	0.0037 BJP	0.004 JP	NA
72-20-8	Endrin	0 ND	ug/L	NA	ND	0.0028 J	ND	0.0055 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L	NA	0.0028 JP	ND	ND	ND	NA
53494-70-	Endrin ketone	5	ug/L	NA	0.0014 JP	ND	ND	ND	NA
76-44-8	Heptachlor	0.04	ug/L	NA	ND	ND	0.0031 JP	0.00072 JP	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	NA	ND	0.00034 JP	0.0015 JP	0.0017 JP	NA
72-43-5	Methoxychlor	35	ug/L	NA	ND	0.0033 JP	ND	0.0061 J	NA
319-84-6	alpha-BHC	0.01	ug/L	NA	ND	0.0089 BJP	ND	0.0069 BJP	NA
5103-71-9	alpha-Chlordane	NS	ug/L	NA	ND	0.00093 JP	ND	ND	NA
319-86-8	delta-BHC	0.04	ug/L	NA	ND	ND	0.0015 J	ND	NA
58-89-9	gamma-BHC	0.05	ug/L	NA	ND	0.004 JP	ND	0.0085 J	NA
5103-74-2	gamma-Chlordane	NS	ug/L	NA	0.0017 JP	0.0056 BJP	0.0047 JP	0.0018 BJP	NA
	INORGANCS								
7429-90-5	Aluminum	NS	ug/L	NA	515	451	634	499	NA
7440-36-0	Antimony	3 (G)	ug/L	NA	ND	ND	2.9 B	2.5 B	NA
7440-38-2	Arsenic	25	ug/L	NA	6.6 B	8.3 B	10.1	8.6 B	NA
7440-39-3	Barium	1000	ug/L	NA	176 B	175 BE	109 B	139 BE	NA
7440-41-7	Beryllium	3 (G)	ug/L	NA	ND	ND	0.17 B	0.19 B	NA
7440-43-9	Cadmium	5	ug/L	NA	ND	0.88 B	ND	ND	NA
7440-70-2	Calcium	NS	ug/L	NA	132000	137000	36100	44900	NA
7440-47-3	Chromium	50	ug/L	NA	7.1 B	8.9 B	9.8 B	25.4	NA
7440-48-4	Cobalt	NS	ug/L	NA	ND	ND	ND	ND	NA
7440-50-8	Copper	200	ug/L	NA	2.6 B	1.8 B	14.1 B	12.9 B	NA
57-12-5	Cyanide	200	ug/L	NA	ND	ND	30	36	NA
7439-89-6	Iron	500 *	ug/L	NA	20100	19400	12200	13400	NA
7439-92-1	Lead	25	ug/L	NA	2.5 B	ND	6.6	4.6	NA
7439-95-4	Magnesium	35000 (G)	ug/L	NA	36700	37500	9220	11200	NA
7439-96-5	Manganese	300 *	ug/L	NA	213	225	197	213	NA
7440-02-0	Nickel	100	ug/L	NA	1.4 B	2.7 B	4.3 B	12.4 B	NA
7440-09-7	Potassium	NS	ug/L	NA	883 B	1180 B	29300	41700	NA
7782-49-2	Selenium	10	ug/L	NA	ND	ND	ND	ND	NA
7440-23-5	Sodium	20000	ug/L	NA	70500	75000	97600	102000	NA
7440-62-2	Vanadium	NS	ug/L	NA	1.8 B	2.6 B	8.6 B	8.9 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	NA	24.2	13.2 B	55.8	18.8 B	NA

TABLE 3.1

Detected Compound Summary
Monitoring Well Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-6 J8491 OB 9596 Water 10/23/98	MW-6 M0298 OB 1516 Water 4/21/99	MW-6 RE M0298RE OB 1516 Water 4/21/99	MW-7 J8492 OB 9596 Water 10/23/98	MW-7 M0299 OB 1516 Water 4/21/99	MW-7 RE M0299RE OB 1516 Water 4/21/99
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	7 J B	ND	NA	8 J B	ND	NA
71-43-2	Benzene	1	ug/L	ND	ND	NA	ND	ND	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	4 J	NA	ND	11	NA
100-41-4	Ethylbenzene	5	ug/L	ND	ND	NA	ND	ND	NA
75-09-2	Methylene chloride	5	ug/L	ND	1 JB	NA	1 J	ND	NA
100-42-5	Styrene	5	ug/L	ND	ND	NA	ND	ND	NA
108-88-3	Toluene	5	ug/L	ND	ND	NA	ND	ND	NA
1330-20-7	Xylene (total)	5	ug/L	ND	ND	NA	1 J	ND	NA
	SEMIVOLATILES								
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	ND	ND
	PAHs								
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND	ND	ND	ND
	Total PAHs	10 (G)		ND	ND	ND	ND	ND	ND
	PESTICIDES								
309-00-2	Aldrin	0 ND	ug/L	ND	ND	NA	ND	ND	NA
72-55-9	4,4'-DDE	0.2	ug/L	0.00066 JP	ND	NA	ND	ND	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	NA	ND	ND	NA
60-57-1	Dieldrin	0.004	ug/L	0.0021 J	ND	NA	ND	ND	NA
959-98-8	Endosulfan I	NS	ug/L	ND	0.0014 JP	NA	ND	0.0012 JP	NA
33213-65-	Endosulfan II	NS	ug/L	ND	ND	NA	ND	ND	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0023 JP	ND	NA	ND	ND	NA
72-20-8	Endrin	0 ND	ug/L	ND	ND	NA	ND	ND	NA
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	NA	ND	ND	NA
53494-70-	Endrin ketone	5	ug/L	ND	ND	NA	0.0013 JP	ND	NA
76-44-8	Heptachlor	0.04	ug/L	ND	ND	NA	ND	ND	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	0.0027 JP	NA	ND	0.0048 J	NA
72-43-5	Methoxychlor	35	ug/L	ND	ND	NA	ND	ND	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	NA	ND	0.0061 BJ	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	NA	ND	ND	NA
319-86-8	delta-BHC	0.04	ug/L	ND	ND	NA	ND	ND	NA
58-89-9	gamma-BHC	0.05	ug/L	ND	ND	NA	ND	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L	0.0021 JP	0.0083 JP	NA	0.0037 JP	0.008 JP	NA
	INORGANCS								
7429-90-5	Aluminum	NS	ug/L	56.3 B	53.4 B	NA	189 B	316	NA
7440-36-0	Antimony	3 (G)	ug/L	1.9 B	ND	NA	ND	ND	NA
7440-38-2	Arsenic	25	ug/L	ND	ND	NA	ND	ND	NA
7440-39-3	Barium	1000	ug/L	131 B	137 BE	NA	616	575 E	NA
7440-41-7	Beryllium	3 (G)	ug/L	ND	ND	NA	ND	ND	NA
7440-43-9	Cadmium	5	ug/L	0.53 B	ND	NA	ND	ND	NA
7440-70-2	Calcium	NS	ug/L	161000	159000	NA	103000	110000	NA
7440-47-3	Chromium	50	ug/L	4.9 B	3 B	NA	6.3 B	8.5 B	NA
7440-48-4	Cobalt	NS	ug/L	ND	ND	NA	ND	ND	NA
7440-50-8	Copper	200	ug/L	1.3 B	ND	NA	2.2 B	2.7 B	NA
57-12-5	Cyanide	200	ug/L	ND	ND	NA	ND	ND	NA
7439-89-6	Iron	500 *	ug/L	18100	17500	NA	11200	12300	NA
7439-92-1	Lead	25	ug/L	ND	ND	NA	ND	ND	NA
7439-95-4	Magnesium	35000 (G)	ug/L	19500	16400	NA	21400	22000	NA
7439-96-5	Manganese	300 *	ug/L	1150	1220	NA	121	149	NA
7440-02-0	Nickel	100	ug/L	ND	ND	NA	1.4 B	3.5 B	NA
7440-09-7	Potassium	NS	ug/L	36900	54100	NA	1200 B	2170 B	NA
7782-49-2	Selenium	10	ug/L	ND	ND	NA	ND	ND	NA
7440-23-5	Sodium	20000	ug/L	32800	36500	NA	22100	23700	NA
7440-62-2	Vanadium	NS	ug/L	ND	1.4 B	NA	ND	1.4 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	7.4 B	7.5 B	NA	23.2	18.2 B	NA

TABLE 3.1

Detected Compound Summary
Monitoring Well Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	blind dup / J8489 / OB / 9595 / Water / 10/22/98 / ug/L	blind dup / J8489 / OB / 9595 / Water / 10/22/98 / ug/L	blind dup RE / M0196RE / OB / 1489 / Water / 4/20/99 / ug/L
	VOLATILES					
67-64-1	Acetone	50 (G)	ug/L	9 J B	9 J B	NA
71-43-2	Benzene	1	ug/L	ND	ND	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	NA
100-41-4	Ethylbenzene	5	ug/L	ND	ND	NA
75-09-2	Methylene chloride	5	ug/L	ND	ND	NA
100-42-5	Styrene	5	ug/L	ND	ND	NA
108-88-3	Toluene	5	ug/L	ND	ND	NA
1330-20-7	Xylene (total)	5	ug/L	ND	ND	NA
	SEMIVOLATILES					
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND
	PAHs					
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND
	Total PAHs	10 (G)		ND	ND	ND
	PESTICIDES					
309-00-2	Aldrin	0 ND	ug/L	ND	ND	NA
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	NA
60-57-1	Dieldrin	0.004	ug/L	ND	ND	NA
959-98-8	Endosulfan I	NS	ug/L	0.0028 JP	0.0028 JP	NA
33213-65-	Endosulfan II	NS	ug/L	0.00093 JP	0.00093 JP	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	0.00086 JP	0.00086 JP	NA
72-20-8	Endrin	0 ND	ug/L	ND	ND	NA
7421-93-4	Endrin aldehyde	5	ug/L	0.0015 JP	0.0015 JP	NA
53494-70-	Endrin ketone	5	ug/L	ND	ND	NA
76-44-8	Heptachlor	0.04	ug/L	ND	ND	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	0.0004 JP	0.0004 JP	NA
72-43-5	Methoxychlor	35	ug/L	ND	ND	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	NA
319-86-8	delta-BHC	0.04	ug/L	ND	ND	NA
58-89-9	gamma-BHC	0.05	ug/L	ND	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L	0.0049 JP	0.0049 JP	NA
	INORGANCS					
7429-90-5	Aluminum	NS	ug/L	602	602	NA
7440-36-0	Antimony	3 (G)	ug/L	1.5 B	1.5 B	NA
7440-38-2	Arsenic	25	ug/L	6.9 B	6.9 B	NA
7440-39-3	Barium	1000	ug/L	182 B	182 B	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.12 B	0.12 B	NA
7440-43-9	Cadmium	5	ug/L	0.73 B	0.73 B	NA
7440-70-2	Calcium	NS	ug/L	139000	139000	NA
7440-47-3	Chromium	50	ug/L	12.6	12.6	NA
7440-48-4	Cobalt	NS	ug/L	ND	ND	NA
7440-50-8	Copper	200	ug/L	3.2 B	3.2 B	NA
57-12-5	Cyanide	200	ug/L	ND	ND	NA
7439-89-6	Iron	500 *	ug/L	21200	21200	NA
7439-92-1	Lead	25	ug/L	ND	ND	NA
7439-95-4	Magnesium	35000 (G)	ug/L	39000	39000	NA
7439-96-5	Manganese	300 *	ug/L	228	228	NA
7440-02-0	Nickel	100	ug/L	2.9 B	2.9 B	NA
7440-09-7	Potassium	NS	ug/L	884 B	884 B	NA
7782-49-2	Selenium	10	ug/L	3 B	3 B	NA
7440-23-5	Sodium	20000	ug/L	75300	75300	NA
7440-62-2	Vanadium	NS	ug/L	2.3 B	2.3 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	29.4	29.4	NA

TABLE 3.2

Detected Compound Summary
Sump Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	UNITS:	SAMPLE ID:	S-1	S-1 DL	S-1	S-1 DL	S-2	S-2	S-2 RE
				LAB ID:	J8341	J8341D	M0193	M0193DL	J8486	M0296	M0296RE
				SOURCE:	OB	OB	OB	OB	OB	OB	OB
				SDG:	9571	9571	1489	1489	9595	1516	1516
				MATRIX:	Water	Water	Water	Water	Water	Water	Water
				SAMPLED:	10/21/98	10/21/98	4/20/99	4/20/99	10/22/98	4/21/99	4/21/99
	VOLATILES										
67-64-1	Acetone	50 (G)	ug/L		10 J	NA	13	NA	9 J B	ND	NA
71-43-2	Benzene	1	ug/L		ND	NA	ND	NA	1 J	ND	NA
75-15-0	Carbon disulfide	NS	ug/L		ND	NA	7 J	NA	ND	38	NA
75-35-3	1,1-Dichloroethane	5	ug/L		ND	NA	ND	NA	2 J	2 J	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L		ND	NA	ND	NA	2 J	6 J	NA
100-41-4	Ethylbenzene	5	ug/L		ND	NA	ND	NA	1 J	ND	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L		2 J	NA	ND	NA	ND	ND	NA
75-09-2	Methylene chloride	5	ug/L		2 J	NA	ND	NA	ND	ND	NA
127-18-4	Tetrachloroethene	5	ug/L		ND	NA	ND	NA	1 J	ND	NA
108-88-3	Toluene	5	ug/L		ND	NA	ND	NA	3 J	ND	NA
79-01-6	Trichloroethene	5	ug/L		ND	NA	ND	NA	ND	1 J	NA
75-01-4	Vinyl chloride	2	ug/L		ND	NA	ND	NA	ND	ND	NA
1330-20-7	Xylene (total)	5	ug/L		ND	NA	ND	NA	9 J	3 J	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L		ND	NA	ND	NA	1 J	6 J	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L		ND	NA	ND	NA	ND	ND	NA
	SEMIVOLATILES										
86-74-8	Carbazole	NS	ug/L		ND	ND	ND	ND	3 J	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L		ND	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	ug/L		250 D	260 JD	73 D	82 JD	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L		16 JD	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L		77 JD	74 JD	13 JD	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L		84 JD	65 JD	33 JD	28 JD	39	6 J	5 J
91-57-6	2-Methylnaphthalene	NS	ug/L		130 D	130 JD	17 JD	ND	3 J	ND	ND
95-48-7	2-Methylphenol	1	ug/L		ND	ND	ND	ND	9 J	ND	ND
106-44-5	4-Methylphenol	1	ug/L		ND	ND	ND	ND	15	ND	ND
108-95-2	Phenol	1	ug/L		ND	ND	ND	ND	1 J	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	ug/L		31 JD	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L		530 D	680 D	190 D	170 JD	ND	ND	ND
	PAHs										
83-32-9	Acenaphthene	20 (G)	ug/L		370 D	380 JD	180 D	180 JD	2 J	1 J	1 J
208-96-8	Acenaphthylene	NS	ug/L		ND	ND	ND	ND	3 J	1 J	1 J
120-12-7	Anthracene	50 (G)	ug/L		300 D	270 JD	110 D	110 JD	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L		420 D	390 JD	310 D	310 D	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L		230 D	250 JD	150 D	150 JD	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L		350 D	330 JD	210 D	250 JD	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L		130 D	220 JD	220 D	190 JD	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L		160 D	150 JD	77 D	98 JD	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L		430 D	380 JD	380 D	390 D	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L		40 JD	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L		1800 ED	1300 D	710 ED	840 D	ND	ND	ND
86-73-7	Fluorene	50 (G)	ug/L		390 D	430 JD	99 D	120 JD	1 J	1 J	1 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L		120 D	200 JD	190 D	140 JD	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L		65 JD	62 JD	6 JD	ND	46	ND	ND
85-01-8	Phenanthrene	50 (G)	ug/L		1400 ED	1300 D	210 D	220 JD	1 J	ND	ND
129-00-0	Pyrene	50 (G)	ug/L		1200 ED	1400 D	1400 ED	2000 D	ND	ND	ND
	Total PAHs				7405	7062	4252	4998	53	3	3
	PESTICIDES/PCBs										
53469-21-	Aroclor-1242		ug/L		ND	ND	ND	ND	0.48 JP	0.47 JP	NA
12672-29-	Aroclor-1248		ug/L		39 P	61 PD	74 P	110 PD	ND	ND	NA
11096-82-	Aroclor-1260		ug/L		89 E	150 D	72 P	110 PD	ND	ND	NA
72-54-8	4,4'-DDD	0.3	ug/L		0.033 JP	0.068 JPD	0.051 JP	ND	ND	ND	NA
72-55-9	4,4'-DDE	0.2	ug/L		0.51 P	0.8 JPD	1.3 P	2 JD	ND	0.0024 JP	NA
50-29-3	4,4'-DDT	0.2	ug/L		ND	ND	ND	0.035 JPD	ND	0.00079 BJP	NA
60-57-1	Dieldrin	0.004	ug/L		ND	ND	ND	ND	ND	ND	NA
959-98-8	Endosulfan I	NS	ug/L		ND	ND	0.14 JP	ND	ND	ND	NA
33213-65-	Endosulfan II	NS	ug/L		3.1	4.6 J	2.1	2.8 JPD	0.0021 JP	0.0018 JP	NA
1031-07-8	Endosulfan sulfate	NS	ug/L		0.086 BJP	0.12 BJP	ND	ND	0.0046 BJP	0.0025 BJP	NA
72-20-8	Endrin	0 ND	ug/L		ND	ND	ND	0.17 JPD	ND	0.0029 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L		0.045 JP	ND	0.3 JP	0.65 JPD	0.0065 J	0.0017 JP	NA
53494-70-	Endrin ketone	5	ug/L		ND	ND	ND	ND	0.00068 J	0.00041 JP	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L		ND	ND	ND	ND	0.00059 J	ND	NA
72-43-5	Methoxychlor	35	ug/L		ND	ND	0.83 JP	1.3 JPD	ND	ND	NA
319-84-6	alpha-BHC	0.01	ug/L		ND	ND	ND	ND	ND	0.00081 BJP	NA
5103-71-9	alpha-Chlordane	NS	ug/L		ND	ND	ND	ND	ND	0.0016 JP	NA
319-86-8	delta-BHC	0.04	ug/L		ND	ND	0.0048 JP	ND	0.0027 JP	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L		ND	ND	ND	ND	0.0014 JP	0.0018 JP	NA

TABLE 3.2

Detected Compound Summary
Sump Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 / J8341 / OB / 9571 / Water / 10/21/98 / ug/L	S-1 DL / J8341D / OB / 9571 / Water / 10/21/98 / ug/L	S-1 / M0193 / OB / 1489 / Water / 4/20/99 / ug/L	S-1 DL / M0193DL / OB / 1489 / Water / 4/20/99 / ug/L	S-2 / J8486 / OB / 9595 / Water / 10/22/98 / ug/L	S-2 / M0296 / OB / 1516 / Water / 4/21/99 / ug/L	S-2 RE / M0296RE / OB / 1516 / Water / 4/21/99 / ug/L
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	5870	NA	2390	NA	142 B	211	NA
7440-36-0	Antimony	3 (G)	ug/L	4.9 B	NA	2.9 B	NA	7 B	4.7 B	NA
7440-38-2	Arsenic	25	ug/L	20.6	NA	10.4	NA	6.7 B	3.8 B	NA
7440-39-3	Barium	1000	ug/L	463	NA	332 E	NA	76.9 B	71.6 BE	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.34 B	NA	0.18 B	NA	ND	0.14 B	NA
7440-43-9	Cadmium	5	ug/L	1.8 B	NA	0.55 B	NA	ND	ND	NA
7440-70-2	Calcium	NS	ug/L	233000	NA	152000	NA	171000	156000	NA
7440-47-3	Chromium	50	ug/L	16.3	NA	7.6 B	NA	ND	ND	NA
7440-48-4	Cobalt	NS	ug/L	5.7 B	NA	2.2 B	NA	ND	ND	NA
7440-50-8	Copper	200	ug/L	115	NA	79.1	NA	2.1 B	0.96 B	NA
57-12-5	Cyanide	200	ug/L	ND	NA	ND	NA	80	52.3	NA
7439-89-6	Iron	500 *	ug/L	21800	NA	7920	NA	47.9 B	46.7 B	NA
7439-92-1	Lead	25	ug/L	47.6	NA	19.4	NA	ND	ND	NA
7439-95-4	Magnesium	35000 (G)	ug/L	16700	NA	12900	NA	18.9 B	ND	NA
7439-96-5	Manganese	300 *	ug/L	3150	NA	2290	NA	ND	ND	NA
7440-02-0	Nickel	100	ug/L	28.9 B	NA	18.2 B	NA	1.4 B	2.3 B	NA
7440-09-7	Potassium	NS	ug/L	24400	NA	23700	NA	36200	45600	NA
7782-49-2	Selenium	10	ug/L	2.9 B	NA	ND	NA	ND	ND	NA
7440-23-5	Sodium	20000	ug/L	93000	NA	138000	NA	33300	43700	NA
7440-62-2	Vanadium	NS	ug/L	13.4 B	NA	7.4 B	NA	8.1 B	13.9 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	384	NA	138	NA	7.7 B	4.3 B	NA

TABLE 3.2

Detected Compound Summary
Sump Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-3 J8339 OB 9571 Water 10/21/98	S-3 M0189 OB 1489 Water 4/19/99	S-4 M0297 OB 1516 Water 4/21/99	S-4 RE M0297RE OB 1516 Water 4/21/99
	VOLATILES						
67-64-1	Acetone	50 (G)	ug/L	6 J	5 J	6 J	NA
71-43-2	Benzene	1	ug/L	ND	ND	5 J	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	8 J	10	NA
75-35-3	1,1-Dichloroethane	5	ug/L	ND	3 J	8 J	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	2 J	11	NA
100-41-4	Ethylbenzene	5	ug/L	ND	ND	7 J	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L	ND	ND	ND	NA
75-09-2	Methylene chloride	5	ug/L	2 J	1 JB	2 JB	NA
127-18-4	Tetrachloroethene	5	ug/L	ND	ND	ND	NA
108-88-3	Toluene	5	ug/L	ND	1 J	4 J	NA
79-01-6	Trichloroethene	5	ug/L	ND	ND	ND	NA
75-01-4	Vinyl chloride	2	ug/L	ND	ND	4 J	NA
1330-20-7	Xylene (total)	5	ug/L	ND	4 J	24	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	2 J	9 J	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L	ND	ND	2 J	NA
	SEMIVOLATILES						
86-74-8	Carbazole	NS	ug/L	ND	2 J	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	5 J	4 J
132-64-9	Dibenzofuran	NS	ug/L	ND	2 J	ND	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	1 J	1 J
106-46-7	1,4-Dichlorobenzene	3	ug/L	ND	ND	2 J	2 J
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	28	51	37
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	4 J	2 J	1 J
95-48-7	2-Methylphenol	1	ug/L	ND	10 J	2 J	2 J
106-44-5	4-Methylphenol	1	ug/L	ND	25	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND
	PAHs						
83-32-9	Acenaphthene	20 (G)	ug/L	ND	3 J	ND	ND
208-96-8	Acenaphthylene	NS	ug/L	ND	4 J	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	ug/L	ND	2 J	1 J	1 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	ND	40	11	8 J
85-01-8	Phenanthrene	50 (G)	ug/L	ND	2 J	ND	ND
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	ND
	Total PAHs			ND	51	12	9
	PESTICIDES/PCBs						
53469-21-	Aroclor-1242		ug/L	ND	0.52 JP	1.5 P	NA
12672-29-	Aroclor-1248		ug/L	ND	ND	ND	NA
11096-82-	Aroclor-1260		ug/L	ND	ND	ND	NA
72-54-8	4,4'-DDD	0.3	ug/L	ND	0.00049 JP	0.0047 JP	NA
72-55-9	4,4'-DDE	0.2	ug/L	0.0024 JP	ND	ND	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	0.00077 JP	0.022 BJP	NA
60-57-1	Dieldrin	0.004	ug/L	ND	0.00047 JP	ND	NA
959-98-8	Endosulfan I	NS	ug/L	ND	ND	ND	NA
33213-65-	Endosulfan II	NS	ug/L	0.005 JP	0.00084 JP	0.0079 JP	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0069 BJP	0.0014 JP	0.0023 BJP	NA
72-20-8	Endrin	0 ND	ug/L	ND	ND	0.011 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L	0.0075 J	0.0016 J	0.0096 JP	NA
53494-70-	Endrin ketone	5	ug/L	ND	ND	0.0075 JP	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	0.00073 J	0.0026 JP	0.025 J	NA
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	ND	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	0.012 JP	NA
319-86-8	delta-BHC	0.04	ug/L	ND	ND	0.008 JP	NA
5103-74-2	gamma-Chlordane	NS	ug/L	0.003 JP	0.00072 BJP	ND	NA

TABLE 3.2

Detected Compound Summary
Sump Samples

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-3 / J8339 / OB / 9571 / Water / 10/21/98 / ug/L	S-3 / M0189 / OB / 1489 / Water / 4/19/99 / ug/L	S-4 / M0297 / OB / 1516 / Water / 4/21/99 / ug/L	S-4 RE / M0297RE / OB / 1516 / Water / 4/21/99 / ug/L
	INORGANICS						
7429-90-5	Aluminum	NS		100 B	298	58.9 B	NA
7440-36-0	Antimony	3 (G)		12.6 B	5.1 B	ND	NA
7440-38-2	Arsenic	25		4.9 B	3.8 B	ND	NA
7440-39-3	Barium	1000		54.8 B	56.6 B	68.9 BE	NA
7440-41-7	Beryllium	3 (G)		ND	ND	0.13	NA
7440-43-9	Cadmium	5		ND	ND	0.5 B	NA
7440-70-2	Calcium	NS		112000	151000	456000	NA
7440-47-3	Chromium	50		ND	ND	2 B	NA
7440-48-4	Cobalt	NS		ND	ND	ND	NA
7440-50-8	Copper	200		4.6 B	1.1 B	ND	NA
57-12-5	Cyanide	200		69	15.6	48.9	NA
7439-89-6	Iron	500 *		708	62.3 B	463	NA
7439-92-1	Lead	25		ND	ND	1.2 B	NA
7439-95-4	Magnesium	35000 (G)		546 B	46.8 B	10700	NA
7439-96-5	Manganese	300 *		14.8 B	ND	357	NA
7440-02-0	Nickel	100		1.9 B	2.5 B	ND	NA
7440-09-7	Potassium	NS		38500	47100	60200	NA
7782-49-2	Selenium	10		ND	ND	ND	NA
7440-23-5	Sodium	20000		32500	44300	36400	NA
7440-62-2	Vanadium	NS		5.5 B	16.5 B	2 B	NA
7440-66-6	Zinc	2000 (G)		26.1	ND	2.5 B	NA

TABLE 3.3

Detected Compound Summary
Surface Water Sample

CAS NO.	COMPOUND	NYSDEC Class A Surface Water Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	SW-1 / M0192 / OB / 1489 / Water / 4/20/99
	VOLATILES			
75-15-0	Carbon disulfide	NS	ug/L	5 J
	SEMIVOLATILES			
	NONE DETECTED			
	PESTICIDES/PCBs			
72-54-8	4,4'-DDD	0.3	ug/L	0.002 J
60-57-1	Dieldrin	0.004	ug/L	0.00096 JP
33213-65-9	Endosulfan II	NS	ug/L	0.00052 JP
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0018 JP
72-20-8	Endrin	0.2	ug/L	0.00056 JP
319-84-6	alpha-BHC	0.01	ug/L	0.0083 BJP
5103-74-2	gamma-Chlordane	NS	ug/L	0.0048 BJP
	INORGANICS			
7429-90-5	Aluminum	100 (1)	ug/L	153 B
7440-36-0	Antimony	3	ug/L	8.3 B
7440-38-2	Arsenic	50	ug/L	5.2 B
7440-39-3	Barium	1000	ug/L	50.3 BE
7440-70-2	Calcium	NS	ug/L	189000
7440-47-3	Chromium	50	ug/L	8.7 B
7440-50-8	Copper	200	ug/L	3.6 B
7439-89-6	Iron	300	ug/L	223
7439-95-4	Magnesium	35000	ug/L	53200
7439-96-5	Manganese	300	ug/L	71.6
7440-02-0	Nickel	100	ug/L	3.2 B
7440-09-7	Potassium	NS	ug/L	66300
7440-23-5	Sodium	NS	ug/L	133000
7440-62-2	Vanadium	14	ug/L	9.9 B
7440-66-6	Zinc	200 (G)	ug/L	23.7

SECTION 4

SECTION 4

SUMMARY AND CONLUSIONS

The objectives of the post-construction monitoring program were to monitor and evaluate the Site groundwater and surface water quality, and determine the effectiveness of both the shallow and intermediate/deep groundwater extraction systems. These objectives were met through field efforts, and subsequent data compilation/reporting and interpretation efforts. The primary conclusions derived from the second year of the monitoring program are summarized below.

- Impacts from the Site on groundwater quality in the intermediate/deep zone were relatively minor. Concentrations of organic compounds were below groundwater standards in most samples. Metals concentrations exceeded groundwater standards in some samples, but were lower than the background well (MW-2) for most of the metals. Overall frequency and concentrations of detections remained similar to, or decreased from the 1997/1998 sampling year.

- Shallow groundwater quality showed greater impacts from the Site than the intermediate/deep zone samples. However, the most notable impacts were limited to sump S-1, likely due to the measurable thickness of LNAPL (oil) throughout the reporting period. Also, sump S-4 showed an increase in detections and concentrations in the April 1999 sampling round.

- In surface water, only one metal, antimony, exceeded surface water standards. All detected organic compounds were at concentrations below the surface water standards.

- In accordance with the NYSDEC, a statistical analysis of the water quality data is not deemed appropriate at this time. Approximately two more sampling events will be performed before undertaking statistical analyses, to ensure a representative data set.

- Groundwater contour maps of the intermediate/deep zone, constructed from water level data throughout the year, indicate that sufficient drawdown was maintained throughout most of the period (with occasional interruptions) to prevent offsite migration of groundwater. The radius of capture and gradients from the river towards the recovery wells increased as a result of lowering the pumping levels in October 1998.

- The shallow collection trench system was operating as designed, with flow rates approximating those predicted during the design phase. No surface overflows were observed from the trench during the reporting period, with the exception of the temporary shutdown of S-3 and S-4 during dredging operations.

APPENDIX A

APPENDIX A
ANALYTICAL DATA
(OCTOBER 1998 AND APRIL 1999)

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-1 J8338 OB 9571 Water 10/21/98	MW-1 M0188 OB 1489 Water 4/19/99	MW-2 J8340 OB 9571 Water 10/21/98	MW-2 M0190 OB 1489 Water 4/20/99	MW-3 J8484 OB 9595 Water 10/22/98	MW-3 M0191 OB 1489 Water 4/20/99
	VOLATILES							
74-87-3	Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
74-83-9	Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-01-4	Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-09-2	Methylene chloride	ug/L	2 J	1 JB	2 J	10 U	2 J	2 JB
67-64-1	Acetone	ug/L	4 J	5 JB	4 J	10 U	4 J	6 JB
75-15-0	Carbon disulfide	ug/L	10 U	19	10 U	2 J	10 U	5 J
75-35-4	1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-35-3	1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
67-66-3	Chloroform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-23-5	Carbon tetrachloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
591-78-6	2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
127-18-4	Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
156-59-2	cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
156-60-5	trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-1 J8338 OB 9571 Water 10/21/98	MW-1 M0188 OB 1489 Water 4/19/99	MW-2 J8340 OB 9571 Water 10/21/98	MW-2 M0190 OB 1489 Water 4/20/99	MW-3 J8484 OB 9595 Water 10/22/98	MW-3 M0191 OB 1489 Water 4/20/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-95-2	Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-57-8	2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
67-72-1	Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
621-64-7	N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-44-5	4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
98-95-3	Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-06-2	2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
91-58-7	2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
208-96-8	Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
131-11-3	Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
83-32-9	Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
51-28-5	2,4-Dinitrophenol	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
132-64-9	Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-02-7	4-Nitrophenol	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
86-73-7	Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-66-2	Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
86-30-6	N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	ug/L	25 U	26 U	25 U	25 U	25 U	25 U
85-01-8	Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-12-7	Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-74-2	Di-n-butyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
85-68-7	Butyl benzyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo[a]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo[b]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo[k]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo[a]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz[a,h]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo[g,h,i]perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-1 J8338 OB 9571 Water 10/21/98	MW-1 M0188 OB 1489 Water 4/19/99	MW-2 J8340 OB 9571 Water 10/21/98	MW-2 M0190 OB 1489 Water 4/20/99	MW-3 J8484 OB 9595 Water 10/22/98	MW-3 M0191 OB 1489 Water 4/20/99
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L	0.05 U	0.01 BJP	0.05 U	0.0089 BJ	0.051 U	0.00093 BJP
319-85-7	beta-BHC	ug/L	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
319-86-8	delta-BHC	ug/L	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
58-89-9	gamma-BHC	ug/L	0.05 U	0.051 U	0.05 U	0.0051 JP	0.051 U	0.051 U
76-44-8	Heptachlor	ug/L	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
309-00-2	Aldrin	ug/L	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
1024-57-3	Heptachlor epoxide	ug/L	0.05 U	0.0038 J	0.05 U	0.0024 JP	0.051 U	0.0052 JP
959-98-8	Endosulfan I	ug/L	0.05 U	0.003 JP	0.05 U	0.0012 JP	0.051 U	0.0013 JP
60-57-1	Dieldrin	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0024 JP
72-55-9	4,4'-DDE	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	Endrin	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9	Endosulfan II	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8	4,4'-DDD	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan sulfate	ug/L	0.0022 BJP	0.0013 JP	0.1 U	0.00092 JP	0.011 BJP	0.0015 JP
50-29-3	4,4'-DDT	ug/L	0.1 U	0.1 U	0.1 U	0.0007 JP	0.1 U	0.1 U
72-43-5	Methoxychlor	ug/L	0.5 U	0.51 U	0.5 U	0.51 U	0.51 U	0.51 U
53494-70-5	Endrin ketone	ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	Endrin aldehyde	ug/L	0.1 U	0.1 U	0.0048 JP	0.1 U	0.1 U	0.1 U
5103-71-9	alpha-Chlordane	ug/L	0.05 U	0.051 U	0.05 U	0.051 U	0.051 U	0.051 U
5103-74-2	gamma-Chlordane	ug/L	0.0024 JP	0.008 BJP	0.0016 JP	0.013 BJP	0.001 JP	0.014 BJP
8001-35-2	Toxaphene	ug/L	5 U	5.1 U	5 U	5.1 U	5.1 U	5.1 U
12674-11-2	Aroclor-1016	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
11104-28-2	Aroclor-1221	ug/L	2 U	2 U	2 U	2 U	2 U	2 U
11141-16-5	Aroclor-1232	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
53469-21-9	Aroclor-1242	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
12672-29-6	Aroclor-1248	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
11097-69-1	Aroclor-1254	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
11096-82-5	Aroclor-1260	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
	INORGANICS							
7429-90-5	Aluminum	ug/L	2730	830	17900	12100	789	665
7440-36-0	Antimony	ug/L	1.7 B	3.2 B	1.3 U	2.9 B	1.3 U	2.1 B
7440-38-2	Arsenic	ug/L	23.9	24.5	34.6	27.5	6.2 B	2.6 B
7440-39-3	Barium	ug/L	353	353 E	260	180 BE	157 B	153 BE
7440-41-7	Beryllium	ug/L	0.14 B	0.38 B	0.88 B	0.71 B	0.15 B	0.15 B
7440-43-9	Cadmium	ug/L	0.43 U	0.62 B	1.1 B	0.86 B	0.43 U	0.42 U
7440-70-2	Calcium	ug/L	214000	222000	344000	347000	172000	149000
7440-47-3	Chromium	ug/L	11.5	9 B	103	56.3	12.7	9.4 B
7440-48-4	Cobalt	ug/L	2.3 U	1.6 U	13.3 B	9.2 B	2.3 U	1.6 U
7440-50-8	Copper	ug/L	7.2 B	3.8 B	55.9	33.2	5 B	2.1 B
7439-89-6	Iron	ug/L	13100	9120	38800	27200	20800	15900
7439-92-1	Lead	ug/L	4.5	3.4	39.2	26.7	2.1 B	1.1 U
7439-95-4	Magnesium	ug/L	53500	52700	109000	103000	43500	34700
7439-96-5	Manganese	ug/L	201	155	1000	949	734	654
7439-97-6	Mercury	ug/L	0.15 U	0.11 U	0.15 U	0.11 U	0.15 U	0.11 U
7440-02-0	Nickel	ug/L	6.9 B	2.8 B	61.2	35 B	5.8 B	6.4 B
7440-09-7	Potassium	ug/L	1390 B	1780 B	4200 B	4330 B	13100	9730
7782-49-2	Selenium	ug/L	2.3 B	3.6 U	2 B	3.6 U	2 U	3.6 U
7440-22-4	Silver	ug/L	1.2 U	1 U	1.2 U	1 U	1.2 U	1 U
7440-23-5	Sodium	ug/L	33400	39100	18700	19100	104000	83100
7440-28-0	Thallium	ug/L	5.5 U	3.8 U	5.5 U	3.8 U	5.5 U	3.8 U
7440-62-2	Vanadium	ug/L	5.5 B	2.4 B	33.7 B	23.1 B	4.2 B	4.2 B
7440-66-6	Zinc	ug/L	55.7	13.6 B	184	110	34.6	9.1 B
57-12-5	Cyanide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-3 RE M0191RE OB 1489 Water 4/20/99	MW-4 J8485 OB 9595 Water 10/22/98	MW-4 M0194 OB 1489 Water 4/20/99	MW-5 J8487 OB 9595 Water 10/22/98	MW-5 M0195 OB 1489 Water 4/20/99	MW-5 RE M0195RE OB 1489 Water 4/20/99
	VOLATILES							
74-87-3	Chloromethane	ug/L		10 U	10 U	10 U	10 U	
74-83-9	Bromomethane	ug/L		10 U	10 U	10 U	10 U	
75-01-4	Vinyl chloride	ug/L		10 U	10 U	10 U	10 U	
75-00-3	Chloroethane	ug/L		10 U	10 U	10 U	10 U	
75-09-2	Methylene chloride	ug/L		2 J	10 U	1 J	10 U	
67-64-1	Acetone	ug/L		4 J	9 J	19	7 J	
75-15-0	Carbon disulfide	ug/L		10 U	11	10 U	6 J	
75-35-4	1,1-Dichloroethene	ug/L		10 U	10 U	10 U	10 U	
75-35-3	1,1-Dichloroethane	ug/L		10 U	10 U	10 U	10 U	
540-59-0	1,2-Dichloroethene (total)	ug/L		10 U	10 U	10 U	10 U	
67-66-3	Chloroform	ug/L		10 U	10 U	10 U	10 U	
107-06-2	1,2-Dichloroethane	ug/L		10 U	10 U	10 U	10 U	
78-93-3	2-Butanone	ug/L		10 U	10 U	10 U	10 U	
71-55-6	1,1,1-Trichloroethane	ug/L		10 U	10 U	10 U	10 U	
56-23-5	Carbon tetrachloride	ug/L		10 U	10 U	10 U	10 U	
75-27-4	Bromodichloromethane	ug/L		10 U	10 U	10 U	10 U	
78-87-5	1,2-Dichloropropane	ug/L		10 U	10 U	10 U	10 U	
10061-01-5	cis-1,3-Dichloropropene	ug/L		10 U	10 U	10 U	10 U	
79-01-6	Trichloroethene	ug/L		10 U	10 U	10 U	10 U	
71-43-2	Benzene	ug/L		10 U	10 U	110	110	
124-48-1	Dibromochloromethane	ug/L		10 U	10 U	10 U	10 U	
10061-02-6	trans-1,3-Dichloropropene	ug/L		10 U	10 U	10 U	10 U	
79-00-5	1,1,2-Trichloroethane	ug/L		10 U	10 U	10 U	10 U	
75-25-2	Bromoform	ug/L		10 U	10 U	10 U	10 U	
108-10-1	4-Methyl-2-pentanone	ug/L		10 U	10 U	10 U	10 U	
591-78-6	2-Hexanone	ug/L		10 U	10 U	10 U	10 U	
127-18-4	Tetrachloroethene	ug/L		10 U	10 U	10 U	10 U	
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		10 U	10 U	10 U	10 U	
108-88-3	Toluene	ug/L		10 U	10 U	28	15	
108-90-7	Chlorobenzene	ug/L		10 U	10 U	10 U	10 U	
100-41-4	Ethylbenzene	ug/L		10 U	10 U	10 J	10 J	
100-42-5	Styrene	ug/L		10 U	10 U	1 J	2 J	
1330-20-7	Xylene (total)	ug/L		10 U	10 U	40	40	
156-59-2	cis-1,2-Dichloroethene	ug/L		10 U	10 U	10 U	10 U	
156-60-5	trans-1,2-Dichloroethene	ug/L		10 U	10 U	10 U	10 U	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-3 RE / M0191RE / OB / 1489 / Water / 4/20/99	MW-4 / J8485 / OB / 9595 / Water / 10/22/98	MW-4 / M0194 / OB / 1489 / Water / 4/20/99	MW-5 / J8487 / OB / 9595 / Water / 10/22/98	MW-5 / M0195 / OB / 1489 / Water / 4/20/99	MW-5 RE / M0195RE / OB / 1489 / Water / 4/20/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-95-2	Phenol	ug/L	10 U	10 U	10 U	1 J	4 J	4 J
95-57-8	2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	ug/L	10 U	10 U	10 U	4 J	3 J	4 J
67-72-1	Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
621-64-7	N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-44-5	4-Methylphenol	ug/L	10 U	10 U	10 U	1 J	6 J	7 J
98-95-3	Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	23	18	17
111-91-1	bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	ug/L	10 U	10 U	10 U	9 J	10 J	10 J
106-47-8	4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-06-2	2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
91-58-7	2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
208-96-8	Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
131-11-3	Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
83-32-9	Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
51-28-5	2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
132-64-9	Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-02-7	4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
86-73-7	Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-66-2	Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
86-30-6	N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	26 U	26 U
85-01-8	Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-12-7	Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-74-2	Di-n-butyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
85-68-7	Butyl benzyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo[a]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo[b]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo[k]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo[a]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz[a,h]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo[g,h,i]perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-3 RE / M0191RE / OB / 1489 / Water / 4/20/99	MW-4 / J8485 / OB / 9595 / Water / 10/22/98	MW-4 / M0194 / OB / 1489 / Water / 4/20/99	MW-5 / J8487 / OB / 9595 / Water / 10/22/98	MW-5 / M0195 / OB / 1489 / Water / 4/20/99	MW-5 RE / M0195RE / OB / 1489 / Water / 4/20/99
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L		0.05 U	0.0089 BJP	0.051 U	0.0069 BJP	
319-85-7	beta-BHC	ug/L		0.05 U	0.05 U	0.051 U	0.051 U	
319-86-8	delta-BHC	ug/L		0.05 U	0.05 U	0.0015 J	0.051 U	
58-89-9	gamma-BHC	ug/L		0.05 U	0.004 JP	0.051 U	0.0085 J	
76-44-8	Heptachlor	ug/L		0.05 U	0.05 U	0.0031 JP	0.00072 JP	
309-00-2	Aldrin	ug/L		0.05 U	0.05 U	0.051 U	0.0016 JP	
1024-57-3	Heptachlor epoxide	ug/L		0.05 U	0.00034 JP	0.0015 JP	0.0017 JP	
959-98-8	Endosulfan I	ug/L		0.05 U	0.0043 JP	0.051 U	0.0025 JP	
60-57-1	Dieldrin	ug/L		0.1 U	0.1 U	0.1 U	0.0036 JP	
72-55-9	4,4'-DDE	ug/L		0.1 U	0.0007 JP	0.0011 JP	0.0014 JP	
72-20-8	Endrin	ug/L		0.1 U	0.0028 J	0.1 U	0.0055 JP	
33213-65-9	Endosulfan II	ug/L		0.0008 JP	0.1 U	0.1 U	0.1 U	
72-54-8	4,4'-DDD	ug/L		0.1 U	0.1 U	0.1 U	0.1 U	
1031-07-8	Endosulfan sulfate	ug/L		0.0017 BJP	0.0042 JP	0.0037 BJP	0.004 JP	
50-29-3	4,4'-DDT	ug/L		0.1 U	0.1 U	0.1 U	0.1 U	
72-43-5	Methoxychlor	ug/L		0.5 U	0.0033 JP	0.51 U	0.0061 J	
53494-70-5	Endrin ketone	ug/L		0.0014 JP	0.1 U	0.1 U	0.1 U	
7421-93-4	Endrin aldehyde	ug/L		0.0028 JP	0.1 U	0.1 U	0.1 U	
5103-71-9	alpha-Chlordane	ug/L		0.05 U	0.00093 JP	0.051 U	0.051 U	
5103-74-2	gamma-Chlordane	ug/L		0.0017 JP	0.0056 BJP	0.0047 JP	0.0018 BJP	
8001-35-2	Toxaphene	ug/L		5 U	5 U	5.1 U	5.1 U	
12674-11-2	Aroclor-1016	ug/L		1 U	1 U	1 U	1 U	
11104-28-2	Aroclor-1221	ug/L		2 U	2 U	2.1 U	2 U	
11141-16-5	Aroclor-1232	ug/L		1 U	1 U	1 U	1 U	
53469-21-9	Aroclor-1242	ug/L		1 U	1 U	1 U	1 U	
12672-29-6	Aroclor-1248	ug/L		1 U	1 U	1 U	1 U	
11097-69-1	Aroclor-1254	ug/L		1 U	1 U	1 U	1 U	
11096-82-5	Aroclor-1260	ug/L		1 U	1 U	1 U	1 U	
	INORGANICS							
7429-90-5	Aluminum	ug/L		515	451	634	499	
7440-36-0	Antimony	ug/L		1.3 U	1.6 U	2.9 B	2.5 B	
7440-38-2	Arsenic	ug/L		6.6 B	8.3 B	10.1	8.6 B	
7440-39-3	Barium	ug/L		176 B	175 BE	109 B	139 BE	
7440-41-7	Beryllium	ug/L		0.07 U	0.13 U	0.17 B	0.19 B	
7440-43-9	Cadmium	ug/L		0.43 U	0.88 B	0.43 U	0.42 U	
7440-70-2	Calcium	ug/L		132000	137000	36100	44900	
7440-47-3	Chromium	ug/L		7.1 B	8.9 B	9.8 B	25.4	
7440-48-4	Cobalt	ug/L		2.3 U	1.6 U	2.3 U	1.6 U	
7440-50-8	Copper	ug/L		2.6 B	1.8 B	14.1 B	12.9 B	
7439-89-6	Iron	ug/L		20100	19400	12200	13400	
7439-92-1	Lead	ug/L		2.5 B	1.1 U	6.6	4.6	
7439-95-4	Magnesium	ug/L		36700	37500	9220	11200	
7439-96-5	Manganese	ug/L		213	225	197	213	
7439-97-6	Mercury	ug/L		0.15 U	0.11 U	0.15 U	0.11 U	
7440-02-0	Nickel	ug/L		1.4 B	2.7 B	4.3 B	12.4 B	
7440-09-7	Potassium	ug/L		883 B	1180 B	29300	41700	
7782-49-2	Selenium	ug/L		2 U	3.6 U	2 U	3.6 U	
7440-22-4	Silver	ug/L		1.2 U	1 U	1.2 U	1 U	
7440-23-5	Sodium	ug/L		70500	75000	97600	102000	
7440-28-0	Thallium	ug/L		5.5 U	3.8 U	5.5 U	3.8 U	
7440-62-2	Vanadium	ug/L		1.8 B	2.6 B	8.6 B	8.9 B	
7440-66-6	Zinc	ug/L		24.2	13.2 B	55.8	18.8 B	
57-12-5	Cyanide	ug/L		10 U	10 U	30	36	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-6 J8491 OB 9596 Water 10/23/98	MW-6 M0298 OB 1516 Water 4/21/99	MW-6 RE M0298RE OB 1516 Water 4/21/99	MW-7 J8492 OB 9596 Water 10/23/98	MW-7 M0299 OB 1516 Water 4/21/99	MW-7 RE M0299RE OB 1516 Water 4/21/99
	VOLATILES							
74-87-3	Chloromethane	ug/L	10 U	10 U		10 U	10 U	
74-83-9	Bromomethane	ug/L	10 U	10 U		10 U	10 U	
75-01-4	Vinyl chloride	ug/L	10 U	10 U		10 U	10 U	
75-00-3	Chloroethane	ug/L	10 U	10 U		10 U	10 U	
75-09-2	Methylene chloride	ug/L	10 U	1 JB		1 J	10 U	
67-64-1	Acetone	ug/L	7 J B	10 U		8 J B	10 U	
75-15-0	Carbon disulfide	ug/L	10 U	4 J		10 U	11	
75-35-4	1,1-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	
75-35-3	1,1-Dichloroethane	ug/L	10 U	10 U		10 U	10 U	
540-59-0	1,2-Dichloroethene (total)	ug/L	10 U	10 U		10 U	10 U	
67-66-3	Chloroform	ug/L	10 U	10 U		10 U	10 U	
107-06-2	1,2-Dichloroethane	ug/L	10 U	10 U		10 U	10 U	
78-93-3	2-Butanone	ug/L	10 U	10 U		10 U	10 U	
71-55-6	1,1,1-Trichloroethane	ug/L	10 U	10 U		10 U	10 U	
56-23-5	Carbon tetrachloride	ug/L	10 U	10 U		10 U	10 U	
75-27-4	Bromodichloromethane	ug/L	10 U	10 U		10 U	10 U	
78-87-5	1,2-Dichloropropane	ug/L	10 U	10 U		10 U	10 U	
10061-01-5	cis-1,3-Dichloropropene	ug/L	10 U	10 U		10 U	10 U	
79-01-6	Trichloroethene	ug/L	10 U	10 U		10 U	10 U	
71-43-2	Benzene	ug/L	10 U	10 U		10 U	10 U	
124-48-1	Dibromochloromethane	ug/L	10 U	10 U		10 U	10 U	
10061-02-6	trans-1,3-Dichloropropene	ug/L	10 U	10 U		10 U	10 U	
79-00-5	1,1,2-Trichloroethane	ug/L	10 U	10 U		10 U	10 U	
75-25-2	Bromoform	ug/L	10 U	10 U		10 U	10 U	
108-10-1	4-Methyl-2-pentanone	ug/L	10 U	10 U		10 U	10 U	
591-78-6	2-Hexanone	ug/L	10 U	10 U		10 U	10 U	
127-18-4	Tetrachloroethene	ug/L	10 U	10 U		10 U	10 U	
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U		10 U	10 U	
108-88-3	Toluene	ug/L	10 U	10 U		10 U	10 U	
108-90-7	Chlorobenzene	ug/L	10 U	10 U		10 U	10 U	
100-41-4	Ethylbenzene	ug/L	10 U	10 U		10 U	10 U	
100-42-5	Styrene	ug/L	10 U	10 U		10 U	10 U	
1330-20-7	Xylene (total)	ug/L	10 U	10 U		1 J	10 U	
156-59-2	cis-1,2-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	
156-60-5	trans-1,2-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-6 J8491 OB 9596 Water 10/23/98	MW-6 M0298 OB 1516 Water 4/21/99	MW-6 RE M0298RE OB 1516 Water 4/21/99	MW-7 J8492 OB 9596 Water 10/23/98	MW-7 M0299 OB 1516 Water 4/21/99	MW-7 RE M0299RE OB 1516 Water 4/21/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-95-2	Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-57-8	2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
67-72-1	Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
621-64-7	N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-44-5	4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
98-95-3	Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-06-2	2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
91-58-7	2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
208-96-8	Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
131-11-3	Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
83-32-9	Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
51-28-5	2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
132-64-9	Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-02-7	4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
86-73-7	Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-66-2	Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
86-30-6	N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
85-01-8	Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-12-7	Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-74-2	Di-n-butyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
85-68-7	Butyl benzyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo[a]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo[b]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo[k]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo[a]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz[a,h]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo[g,h,i]perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-6 J8491 OB 9596 Water 10/23/98	MW-6 M0298 OB 1516 Water 4/21/99	MW-6 RE M0298RE OB 1516 Water 4/21/99	MW-7 J8492 OB 9596 Water 10/23/98	MW-7 M0299 OB 1516 Water 4/21/99	MW-7 RE M0299RE OB 1516 Water 4/21/99
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L	0.05 U	0.05 U		0.05 U	0.0061 BJ	
319-85-7	beta-BHC	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
319-86-8	delta-BHC	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
58-89-9	gamma-BHC	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
76-44-8	Heptachlor	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
309-00-2	Aldrin	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
1024-57-3	Heptachlor epoxide	ug/L	0.05 U	0.0027 JP		0.05 U	0.0048 J	
959-98-8	Endosulfan I	ug/L	0.05 U	0.0014 JP		0.05 U	0.0012 JP	
60-57-1	Dieldrin	ug/L	0.0021 J	0.1 U		0.1 U	0.1 U	
72-55-9	4,4'-DDE	ug/L	0.00066 JP	0.1 U		0.1 U	0.1 U	
72-20-8	Endrin	ug/L	0.1 U	0.1 U		0.1 U	0.1 U	
33213-65-9	Endosulfan II	ug/L	0.1 U	0.1 U		0.1 U	0.1 U	
72-54-8	4,4'-DDD	ug/L	0.1 U	0.1 U		0.1 U	0.1 U	
1031-07-8	Endosulfan sulfate	ug/L	0.0023 JP	0.1 U		0.1 U	0.1 U	
50-29-3	4,4'-DDT	ug/L	0.1 U	0.1 U		0.1 U	0.1 U	
72-43-5	Methoxychlor	ug/L	0.5 U	0.5 U		0.5 U	0.5 U	
53494-70-5	Endrin ketone	ug/L	0.1 U	0.1 U		0.0013 JP	0.1 U	
7421-93-4	Endrin aldehyde	ug/L	0.1 U	0.1 U		0.1 U	0.1 U	
5103-71-9	alpha-Chlordane	ug/L	0.05 U	0.05 U		0.05 U	0.05 U	
5103-74-2	gamma-Chlordane	ug/L	0.0021 JP	0.0083 JP		0.0037 JP	0.008 JP	
8001-35-2	Toxaphene	ug/L	5 U	5 U		5 U	5 U	
12674-11-2	Aroclor-1016	ug/L	1 U	1 U		1 U	1 U	
11104-28-2	Aroclor-1221	ug/L	2 U	2 U		2 U	2 U	
11141-16-5	Aroclor-1232	ug/L	1 U	1 U		1 U	1 U	
53469-21-9	Aroclor-1242	ug/L	1 U	1 U		1 U	1 U	
12672-29-6	Aroclor-1248	ug/L	1 U	1 U		1 U	1 U	
11097-69-1	Aroclor-1254	ug/L	1 U	1 U		1 U	1 U	
11096-82-5	Aroclor-1260	ug/L	1 U	1 U		1 U	1 U	
	INORGANICS							
7429-90-5	Aluminum	ug/L	56.3 B	53.4 B		189 B	316	
7440-36-0	Antimony	ug/L	1.9 B	1.6 U		1.3 U	1.6 U	
7440-38-2	Arsenic	ug/L	3.1 U	1.9 U		3.1 U	1.9 U	
7440-39-3	Barium	ug/L	131 B	137 BE		616	575 E	
7440-41-7	Beryllium	ug/L	0.07 U	0.13 U		0.07 U	0.13 U	
7440-43-9	Cadmium	ug/L	0.53 B	0.42 U		0.43 U	0.42 U	
7440-70-2	Calcium	ug/L	161000	159000		103000	110000	
7440-47-3	Chromium	ug/L	4.9 B	3 B		6.3 B	8.5 B	
7440-48-4	Cobalt	ug/L	2.3 U	1.6 U		2.3 U	1.6 U	
7440-50-8	Copper	ug/L	1.3 B	0.49 U		2.2 B	2.7 B	
7439-89-6	Iron	ug/L	18100	17500		11200	12300	
7439-92-1	Lead	ug/L	2.1 U	1.1 U		2.1 U	1.1 U	
7439-95-4	Magnesium	ug/L	19500	16400		21400	22000	
7439-96-5	Manganese	ug/L	1150	1220		121	149	
7439-97-6	Mercury	ug/L	0.15 U	0.11 U		0.15 U	0.11 U	
7440-02-0	Nickel	ug/L	0.9 U	1.3 U		1.4 B	3.5 B	
7440-09-7	Potassium	ug/L	36900	54100		1200 B	2170 B	
7782-49-2	Selenium	ug/L	2 U	3.6 U		2 U	3.6 U	
7440-22-4	Silver	ug/L	1.2 U	1 U		1.2 U	1 U	
7440-23-5	Sodium	ug/L	32800	36500		22100	23700	
7440-28-0	Thallium	ug/L	5.5 U	3.8 U		5.5 U	3.8 U	
7440-62-2	Vanadium	ug/L	1.2 U	1.4 B		1.2 U	1.4 B	
7440-66-6	Zinc	ug/L	7.4 B	7.5 B		23.2	18.2 B	
57-12-5	Cyanide	ug/L	10 U	10 U		10 U	10 U	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 J8341 OB 9571 Water 10/21/98	S-1 DL J8341D OB 9571 Water 10/21/98	S-1 M0193 OB 1489 Water 4/20/99	S-1 DL M0193DL OB 1489 Water 4/20/99	S-2 J8486 OB 9595 Water 10/22/98	S-2 M0296 OB 1516 Water 4/21/99
	VOLATILES							
74-87-3	Chloromethane	ug/L	10 U		10 U		10 U	10 U
74-83-9	Bromomethane	ug/L	10 U		10 U		10 U	10 U
75-01-4	Vinyl chloride	ug/L	10 U		10 U		10 U	10 U
75-00-3	Chloroethane	ug/L	10 U		10 U		10 U	10 U
75-09-2	Methylene chloride	ug/L	2 J		10 U		10 U	10 U
67-64-1	Acetone	ug/L	10 J		13		9 J B	10 U
75-15-0	Carbon disulfide	ug/L	10 U		7 J		10 U	38
75-35-4	1,1-Dichloroethene	ug/L	10 U		10 U		10 U	10 U
75-35-3	1,1-Dichloroethane	ug/L	10 U		10 U		2 J	2 J
540-59-0	1,2-Dichloroethene (total)	ug/L	10 U		10 U		2 J	6 J
67-66-3	Chloroform	ug/L	10 U		10 U		10 U	10 U
107-06-2	1,2-Dichloroethane	ug/L	10 U		10 U		10 U	10 U
78-93-3	2-Butanone	ug/L	10 U		10 U		10 U	10 U
71-55-6	1,1,1-Trichloroethane	ug/L	10 U		10 U		10 U	10 U
56-23-5	Carbon tetrachloride	ug/L	10 U		10 U		10 U	10 U
75-27-4	Bromodichloromethane	ug/L	10 U		10 U		10 U	10 U
78-87-5	1,2-Dichloropropane	ug/L	10 U		10 U		10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	10 U		10 U		10 U	10 U
79-01-6	Trichloroethene	ug/L	10 U		10 U		10 U	1 J
71-43-2	Benzene	ug/L	10 U		10 U		1 J	10 U
124-48-1	Dibromochloromethane	ug/L	10 U		10 U		10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	10 U		10 U		10 U	10 U
79-00-5	1,1,2-Trichloroethane	ug/L	10 U		10 U		10 U	10 U
75-25-2	Bromoform	ug/L	10 U		10 U		10 U	10 U
108-10-1	4-Methyl-2-pentanone	ug/L	2 J		10 U		10 U	10 U
591-78-6	2-Hexanone	ug/L	10 U		10 U		10 U	10 U
127-18-4	Tetrachloroethene	ug/L	10 U		10 U		1 J	10 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	10 U		10 U		10 U	10 U
108-88-3	Toluene	ug/L	10 U		10 U		3 J	10 U
108-90-7	Chlorobenzene	ug/L	10 U		10 U		10 U	10 U
100-41-4	Ethylbenzene	ug/L	10 U		10 U		1 J	10 U
100-42-5	Styrene	ug/L	10 U		10 U		10 U	10 U
1330-20-7	Xylene (total)	ug/L	10 U		10 U		9 J	3 J
156-59-2	cis-1,2-Dichloroethene	ug/L	10 U		10 U		1 J	6 J
156-60-5	trans-1,2-Dichloroethene	ug/L	10 U		10 U		10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 J8341 OB 9571 Water 10/21/98	S-1 DL J8341D OB 9571 Water 10/21/98	S-1 M0193 OB 1489 Water 4/20/99	S-1 DL M0193DL OB 1489 Water 4/20/99	S-2 J8486 OB 9595 Water 10/22/98	S-2 M0296 OB 1516 Water 4/21/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
108-95-2	Phenol	ug/L	100 U	510 U	53 U	260 U	1 J	10 U
95-57-8	2-Chlorophenol	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	ug/L	16 JD	510 U	53 U	260 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	ug/L	77 JD	74 JD	13 JD	260 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
95-48-7	2-Methylphenol	ug/L	100 U	510 U	53 U	260 U	9 J	10 U
67-72-1	Hexachloroethane	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
621-64-7	N-Nitroso-di-n-propylamine	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
106-44-5	4-Methylphenol	ug/L	100 U	510 U	53 U	260 U	15	10 U
98-95-3	Nitrobenzene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
78-59-1	Isophorone	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
88-75-5	2-Nitrophenol	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	ug/L	84 JD	65 JD	33 JD	28 JD	39	6 J
111-91-1	bis(2-Chloroethoxy)methane	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	31 JD	510 U	53 U	260 U	10 U	10 U
91-20-3	Naphthalene	ug/L	65 JD	62 JD	6 JD	260 U	46	10 U
106-47-8	4-Chloroaniline	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
87-68-3	Hexachlorobutadiene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
91-57-6	2-Methylnaphthalene	ug/L	130 D	130 JD	17 JD	260 U	3 J	10 U
77-47-4	Hexachlorocyclopentadiene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
88-06-2	2,4,6-Trichlorophenol	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
91-58-7	2-Chloronaphthalene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
88-74-4	2-Nitroaniline	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
208-96-8	Acenaphthylene	ug/L	100 U	510 U	53 U	260 U	3 J	1 J
131-11-3	Dimethyl phthalate	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
83-32-9	Acenaphthene	ug/L	370 D	380 JD	180 D	180 JD	2 J	1 J
99-09-2	3-Nitroaniline	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
51-28-5	2,4-Dinitrophenol	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
132-64-9	Dibenzofuran	ug/L	250 D	260 JD	73 D	82 JD	10 U	10 U
121-14-2	2,4-Dinitrotoluene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
100-02-7	4-Nitrophenol	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
86-73-7	Fluorene	ug/L	390 D	430 JD	99 D	120 JD	1 J	1 J
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
84-66-2	Diethyl phthalate	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
100-01-6	4-Nitroaniline	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
86-30-6	N-Nitrosodiphenylamine	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
101-55-3	4-Bromophenyl phenyl ether	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
118-74-1	Hexachlorobenzene	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
87-86-5	Pentachlorophenol	ug/L	250 U	1300 U	130 U	660 U	25 U	25 U
85-01-8	Phenanthrene	ug/L	1400 ED	1300 D	210 D	220 JD	1 J	10 U
120-12-7	Anthracene	ug/L	300 D	270 JD	110 D	110 JD	10 U	10 U
84-74-2	Di-n-butyl phthalate	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
86-74-8	Carbazole	ug/L	100 U	510 U	53 U	260 U	3 J	10 U
206-44-0	Fluoranthene	ug/L	1800 ED	1300 D	710 ED	840 D	10 U	10 U
129-00-0	Pyrene	ug/L	1200 ED	1400 D	1400 ED	2000 D	10 U	10 U
85-68-7	Butyl benzyl phthalate	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
56-55-3	Benzo[a]anthracene	ug/L	420 D	390 JD	310 D	310 D	10 U	10 U
218-01-9	Chrysene	ug/L	430 D	380 JD	380 D	390 D	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	530 D	680 D	190 D	170 JD	10 U	10 U
117-84-0	Di-n-octyl phthalate	ug/L	100 U	510 U	53 U	260 U	10 U	10 U
205-99-2	Benzo[b]fluoranthene	ug/L	350 D	330 JD	210 D	250 JD	10 U	10 U
207-08-9	Benzo[k]fluoranthene	ug/L	160 D	150 JD	77 D	98 JD	10 U	10 U
50-32-8	Benzo[a]pyrene	ug/L	230 D	250 JD	150 D	150 JD	10 U	10 U
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	120 D	200 JD	190 D	140 JD	10 U	10 U
53-70-3	Dibenz[a,h]anthracene	ug/L	40 JD	510 U	53 U	260 U	10 U	10 U
191-24-2	Benzo[g,h,i]perylene	ug/L	130 D	220 JD	220 D	190 JD	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 J8341 OB 9571 Water 10/21/98	S-1 DL J8341D OB 9571 Water 10/21/98	S-1 M0193 OB 1489 Water 4/20/99	S-1 DL M0193DL OB 1489 Water 4/20/99	S-2 J8486 OB 9595 Water 10/22/98	S-2 M0296 OB 1516 Water 4/21/99
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.00081 BJP
319-85-7	beta-BHC	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.051 U
319-86-8	delta-BHC	ug/L	0.25 U	2.5 U	0.0048 JP	2.5 U	0.0027 JP	0.051 U
58-89-9	gamma-BHC	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.051 U
76-44-8	Heptachlor	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.051 U
309-00-2	Aldrin	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.051 U
1024-57-3	Heptachlor epoxide	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.00059 J	0.051 U
959-98-8	Endosulfan I	ug/L	0.25 U	2.5 U	0.14 JP	2.5 U	0.05 U	0.051 U
60-57-1	Dieldrin	ug/L	0.5 U	5 U	0.51 U	5.1 U	0.1 U	0.1 U
72-55-9	4,4'-DDE	ug/L	0.51 P	0.8 JPD	1.3 P	2 JD	0.1 U	0.0024 JP
72-20-8	Endrin	ug/L	0.5 U	5 U	0.51 U	0.17 JPD	0.1 U	0.0029 JP
33213-65-9	Endosulfan II	ug/L	3.1	4.6 J	2.1	2.8 JPD	0.0021 JP	0.0018 JP
72-54-8	4,4'-DDD	ug/L	0.033 JP	0.068 JPD	0.051 JP	5.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan sulfate	ug/L	0.086 BJP	0.12 BJP	0.51 U	5.1 U	0.0046 BJP	0.0025 BJP
50-29-3	4,4'-DDT	ug/L	0.5 U	5 U	0.51 U	0.035 JPD	0.1 U	0.00079 BJP
72-43-5	Methoxychlor	ug/L	2.5 U	25 U	0.83 JP	1.3 JPD	0.5 U	0.51 U
53494-70-5	Endrin ketone	ug/L	0.5 U	5 U	0.51 U	5.1 U	0.00068 J	0.00041 JP
7421-93-4	Endrin aldehyde	ug/L	0.045 JP	5 U	0.3 JP	0.65 JPD	0.0065 J	0.0017 JP
5103-71-9	alpha-Chlordane	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.05 U	0.0016 JP
5103-74-2	gamma-Chlordane	ug/L	0.25 U	2.5 U	0.25 U	2.5 U	0.0014 JP	0.0018 JP
8001-35-2	Toxaphene	ug/L	25 U	250 U	25 U	250 U	5 U	5.1 U
12674-11-2	Aroclor-1016	ug/L	5 U	50 U	5.1 U	51 U	1 U	1 U
11104-28-2	Aroclor-1221	ug/L	10 U	100 U	10 U	100 U	2 U	2 U
11141-16-5	Aroclor-1232	ug/L	5 U	50 U	5.1 U	51 U	1 U	1 U
53469-21-9	Aroclor-1242	ug/L	5 U	50 U	5.1 U	51 U	0.48 JP	0.47 JP
12672-29-6	Aroclor-1248	ug/L	39 P	61 PD	74 P	110 PD	1 U	1 U
11097-69-1	Aroclor-1254	ug/L	5 U	50 U	5.1 U	51 U	1 U	1 U
11096-82-5	Aroclor-1260	ug/L	89 E	150 D	72 P	110 PD	1 U	1 U
	INORGANICS							
7429-90-5	Aluminum	ug/L	5870		2390		142 B	211
7440-36-0	Antimony	ug/L	4.9 B		2.9 B		7 B	4.7 B
7440-38-2	Arsenic	ug/L	20.6		10.4		6.7 B	3.8 B
7440-39-3	Barium	ug/L	463		332 E		76.9 B	71.6 BE
7440-41-7	Beryllium	ug/L	0.34 B		0.18 B		0.07 U	0.14 B
7440-43-9	Cadmium	ug/L	1.8 B		0.55 B		0.43 U	0.42 U
7440-70-2	Calcium	ug/L	233000		152000		171000	156000
7440-47-3	Chromium	ug/L	16.3		7.6 B		2.8 U	1.4 U
7440-48-4	Cobalt	ug/L	5.7 B		2.2 B		2.3 U	1.6 U
7440-50-8	Copper	ug/L	115		79.1		2.1 B	0.96 B
7439-89-6	Iron	ug/L	21800		7920		47.9 B	46.7 B
7439-92-1	Lead	ug/L	47.6		19.4		2.1 U	1.1 U
7439-95-4	Magnesium	ug/L	16700		12900		18.9 B	10.5 U
7439-96-5	Manganese	ug/L	3150		2290		0.52 U	0.27 U
7439-97-6	Mercury	ug/L	0.15 U		0.11 U		0.15 U	0.11 U
7440-02-0	Nickel	ug/L	28.9 B		18.2 B		1.4 B	2.3 B
7440-09-7	Potassium	ug/L	24400		23700		36200	45600
7782-49-2	Selenium	ug/L	2.9 B		3.6 U		2 U	3.6 U
7440-22-4	Silver	ug/L	1.2 U		1 U		1.2 U	1 U
7440-23-5	Sodium	ug/L	93000		138000		33300	43700
7440-28-0	Thallium	ug/L	5.5 U		3.8 U		5.5 U	3.8 U
7440-62-2	Vanadium	ug/L	13.4 B		7.4 B		8.1 B	13.9 B
7440-66-6	Zinc	ug/L	384		138		7.7 B	4.3 B
57-12-5	Cyanide	ug/L	10 U		10 U		80	52.3

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 RE M0296RE OB 1516 Water 4/21/99	S-3 J8339 OB 9571 Water 10/21/98	S-3 M0189 OB 1489 Water 4/19/99	S-4 M0297 OB 1516 Water 4/21/99	S-4 RE M0297RE OB 1516 Water 4/21/99	SW-1 M0192 OB 1489 Water 4/20/99
	VOLATILES							
74-87-3	Chloromethane	ug/L		10 U	10 U	10 U		10 U
74-83-9	Bromomethane	ug/L		10 U	10 U	10 U		10 U
75-01-4	Vinyl chloride	ug/L		10 U	10 U	4 J		10 U
75-00-3	Chloroethane	ug/L		10 U	10 U	10 U		10 U
75-09-2	Methylene chloride	ug/L		2 J	1 JB	2 JB		10 U
67-64-1	Acetone	ug/L		6 J	5 J	6 J		10 U
75-15-0	Carbon disulfide	ug/L		10 U	8 J	10		5 J
75-35-4	1,1-Dichloroethene	ug/L		10 U	10 U	10 U		10 U
75-35-3	1,1-Dichloroethane	ug/L		10 U	3 J	8 J		10 U
540-59-0	1,2-Dichloroethene (total)	ug/L		10 U	2 J	11		10 U
67-66-3	Chloroform	ug/L		10 U	10 U	10 U		10 U
107-06-2	1,2-Dichloroethane	ug/L		10 U	10 U	10 U		10 U
78-93-3	2-Butanone	ug/L		10 U	10 U	10 U		10 U
71-55-6	1,1,1-Trichloroethane	ug/L		10 U	10 U	10 U		10 U
56-23-5	Carbon tetrachloride	ug/L		10 U	10 U	10 U		10 U
75-27-4	Bromodichloromethane	ug/L		10 U	10 U	10 U		10 U
78-87-5	1,2-Dichloropropane	ug/L		10 U	10 U	10 U		10 U
10061-01-5	cis-1,3-Dichloropropene	ug/L		10 U	10 U	10 U		10 U
79-01-6	Trichloroethene	ug/L		10 U	10 U	10 U		10 U
71-43-2	Benzene	ug/L		10 U	10 U	5 J		10 U
124-48-1	Dibromochloromethane	ug/L		10 U	10 U	10 U		10 U
10061-02-6	trans-1,3-Dichloropropene	ug/L		10 U	10 U	10 U		10 U
79-00-5	1,1,2-Trichloroethane	ug/L		10 U	10 U	10 U		10 U
75-25-2	Bromoform	ug/L		10 U	10 U	10 U		10 U
108-10-1	4-Methyl-2-pentanone	ug/L		10 U	10 U	10 U		10 U
591-78-6	2-Hexanone	ug/L		10 U	10 U	10 U		10 U
127-18-4	Tetrachloroethene	ug/L		10 U	10 U	10 U		10 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L		10 U	10 U	10 U		10 U
108-88-3	Toluene	ug/L		10 U	1 J	4 J		10 U
108-90-7	Chlorobenzene	ug/L		10 U	10 U	10 U		10 U
100-41-4	Ethylbenzene	ug/L		10 U	10 U	7 J		10 U
100-42-5	Styrene	ug/L		10 U	10 U	10 U		10 U
1330-20-7	Xylene (total)	ug/L		10 U	4 J	24		10 U
156-59-2	cis-1,2-Dichloroethene	ug/L		10 U	2 J	9 J		10 U
156-60-5	trans-1,2-Dichloroethene	ug/L		10 U	10 U	2 J		10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 RE M0296RE OB 1516 Water 4/21/99	S-3 J8339 OB 9571 Water 10/21/98	S-3 M0189 OB 1489 Water 4/19/99	S-4 M0297 OB 1516 Water 4/21/99	S-4 RE M0297RE OB 1516 Water 4/21/99	SW-1 M0192 OB 1489 Water 4/20/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-95-2	Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-57-8	2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	1 J	1 J	10 U
106-46-7	1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	2 J	2 J	10 U
95-50-1	1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	ug/L	10 U	10 U	10 J	2 J	2 J	10 U
67-72-1	Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
621-64-7	N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
106-44-5	4-Methylphenol	ug/L	10 U	10 U	25	10 U	10 U	10 U
98-95-3	Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	ug/L	5 J	10 U	28	51	37	10 U
111-91-1	bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	ug/L	10 U	10 U	40	11	8 J	10 U
106-47-8	4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	5 J	4 J	10 U
91-57-6	2-Methylnaphthalene	ug/L	10 U	10 U	4 J	2 J	1 J	10 U
77-47-4	Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-06-2	2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
91-58-7	2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
208-96-8	Acenaphthylene	ug/L	1 J	10 U	4 J	10 U	10 U	10 U
131-11-3	Dimethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
83-32-9	Acenaphthene	ug/L	1 J	10 U	3 J	10 U	10 U	10 U
99-09-2	3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
51-28-5	2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
132-64-9	Dibenzofuran	ug/L	10 U	10 U	2 J	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-02-7	4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
86-73-7	Fluorene	ug/L	1 J	10 U	2 J	1 J	1 J	10 U
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-66-2	Diethyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
86-30-6	N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	26 U
85-01-8	Phenanthrene	ug/L	10 U	10 U	2 J	10 U	10 U	10 U
120-12-7	Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-74-2	Di-n-butyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	ug/L	10 U	10 U	2 J	10 U	10 U	10 U
206-44-0	Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
85-68-7	Butyl benzyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo[a]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo[b]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo[k]fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo[a]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz[a,h]anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo[g,h,i]perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 RE M0296RE OB 1516 Water 4/21/99	S-3 J8339 OB 9571 Water 10/21/98	S-3 M0189 OB 1489 Water 4/19/99	S-4 M0297 OB 1516 Water 4/21/99	S-4 RE M0297RE OB 1516 Water 4/21/99	SW-1 M0192 OB 1489 Water 4/20/99
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L		0.05 U	0.05 U	0.05 U		0.0083 BJP
319-85-7	beta-BHC	ug/L		0.05 U	0.05 U	0.05 U		0.051 U
319-86-8	delta-BHC	ug/L		0.05 U	0.05 U	0.008 JP		0.051 U
58-89-9	gamma-BHC	ug/L		0.05 U	0.05 U	0.05 U		0.051 U
76-44-8	Heptachlor	ug/L		0.05 U	0.05 U	0.05 U		0.051 U
309-00-2	Aldrin	ug/L		0.05 U	0.05 U	0.05 U		0.051 U
1024-57-3	Heptachlor epoxide	ug/L		0.00073 J	0.0026 JP	0.025 J		0.051 U
959-98-8	Endosulfan I	ug/L		0.05 U	0.05 U	0.05 U		0.051 U
60-57-1	Dieldrin	ug/L		0.1 U	0.00047 JP	0.1 U		0.00096 JP
72-55-9	4,4'-DDE	ug/L		0.0024 JP	0.1 U	0.1 U		0.1 U
72-20-8	Endrin	ug/L		0.1 U	0.1 U	0.011 JP		0.00056 JP
33213-65-9	Endosulfan II	ug/L		0.005 JP	0.00084 JP	0.0079 JP		0.00052 JP
72-54-8	4,4'-DDD	ug/L		0.1 U	0.00049 JP	0.0047 JP		0.002 J
1031-07-8	Endosulfan sulfate	ug/L		0.0069 BJP	0.0014 JP	0.0023 BJP		0.0018 JP
50-29-3	4,4'-DDT	ug/L		0.1 U	0.00077 JP	0.022 BJP		0.1 U
72-43-5	Methoxychlor	ug/L		0.5 U	0.5 U	0.5 U		0.51 U
53494-70-5	Endrin ketone	ug/L		0.1 U	0.1 U	0.0075 JP		0.1 U
7421-93-4	Endrin aldehyde	ug/L		0.0075 J	0.0016 J	0.0096 JP		0.1 U
5103-71-9	alpha-Chlordane	ug/L		0.05 U	0.05 U	0.012 JP		0.051 U
5103-74-2	gamma-Chlordane	ug/L		0.003 JP	0.00072 BJP	0.05 U		0.0048 BJP
8001-35-2	Toxaphene	ug/L		5 U	5 U	5 U		5.1 U
12674-11-2	Aroclor-1016	ug/L		1 U	1 U	1 U		1 U
11104-28-2	Aroclor-1221	ug/L		2 U	2 U	2 U		2 U
11141-16-5	Aroclor-1232	ug/L		1 U	1 U	1 U		1 U
53469-21-9	Aroclor-1242	ug/L		1 U	0.52 JP	1.5 P		1 U
12672-29-6	Aroclor-1248	ug/L		1 U	1 U	1 U		1 U
11097-69-1	Aroclor-1254	ug/L		1 U	1 U	1 U		1 U
11096-82-5	Aroclor-1260	ug/L		1 U	1 U	1 U		1 U
	INORGANICS							
7429-90-5	Aluminum	ug/L		100 B	298	58.9 B		153 B
7440-36-0	Antimony	ug/L		12.6 B	5.1 B	1.6 U		8.3 B
7440-38-2	Arsenic	ug/L		4.9 B	3.8 B	1.9 U		5.2 B
7440-39-3	Barium	ug/L		54.8 B	56.6 B	68.9 BE		50.3 BE
7440-41-7	Beryllium	ug/L		0.07 U	0.13 U	0.13		0.13 U
7440-43-9	Cadmium	ug/L		0.43 U	0.42 U	0.5 B		0.42 U
7440-70-2	Calcium	ug/L		112000	151000	456000		189000
7440-47-3	Chromium	ug/L		2.8 U	1.4 U	2 B		8.7 B
7440-48-4	Cobalt	ug/L		2.3 U	1.6 U	1.6 U		1.6 U
7440-50-8	Copper	ug/L		4.6 B	1.1 B	0.49 U		3.6 B
7439-89-6	Iron	ug/L		708	62.3 B	463		223
7439-92-1	Lead	ug/L		2.1 U	1.1 U	1.2 B		1.1 U
7439-95-4	Magnesium	ug/L		546 B	46.8 B	10700		53200
7439-96-5	Manganese	ug/L		14.8 B	0.27 U	357		71.6
7439-97-6	Mercury	ug/L		0.15 U	0.11 U	0.11 U		0.11 U
7440-02-0	Nickel	ug/L		1.9 B	2.5 B	1.3 U		3.2 B
7440-09-7	Potassium	ug/L		38500	47100	60200		66300
7782-49-2	Selenium	ug/L		2 U	3.6 U	3.6 U		3.6 U
7440-22-4	Silver	ug/L		1.2 U	1 U	1 U		1 U
7440-23-5	Sodium	ug/L		32500	44300	36400		133000
7440-28-0	Thallium	ug/L		5.5 U	3.8 U	3.8 U		3.8 U
7440-62-2	Vanadium	ug/L		5.5 B	16.5 B	2 B		9.9 B
7440-66-6	Zinc	ug/L		26.1	1.6 U	2.5 B		23.7
57-12-5	Cyanide	ug/L		69	15.6	48.9		10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	blind dup J8489 OB 9595 Water 10/22/98	blind dup M0196 OB 1489 Water 4/20/99	blind dup RE M0196RE OB 1489 Water 4/20/99	equipment blank J8488 OB 9595 Water 10/22/98	eq blank M0300 OB 1516 Water 4/21/99	eq blank RE M0300RE OB 1516 Water 4/21/99
	VOLATILES							
74-87-3	Chloromethane	ug/L	10 U	10 U		10 U	10 U	10 U
74-83-9	Bromomethane	ug/L	10 U	10 U		10 U	10 U	10 U
75-01-4	Vinyl chloride	ug/L	10 U	10 U		10 U	10 U	10 U
75-00-3	Chloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
75-09-2	Methylene chloride	ug/L	10 U	10 U		1 J	1 JB	10 U
67-64-1	Acetone	ug/L	9 J B	6 J		7 J B	10 U	10 U
75-15-0	Carbon disulfide	ug/L	10 U	8 J		10 U	33	10 U
75-35-4	1,1-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	10 U
75-35-3	1,1-Dichloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	ug/L	10 U	10 U		10 U	10 U	10 U
67-66-3	Chloroform	ug/L	10 U	10 U		10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
78-93-3	2-Butanone	ug/L	10 U	10 U		10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
56-23-5	Carbon tetrachloride	ug/L	10 U	10 U		10 U	10 U	10 U
75-27-4	Bromodichloromethane	ug/L	10 U	10 U		10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	ug/L	10 U	10 U		10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	10 U	10 U		10 U	10 U	10 U
79-01-6	Trichloroethene	ug/L	10 U	10 U		10 U	10 U	10 U
71-43-2	Benzene	ug/L	10 U	10 U		10 U	10 U	10 U
124-48-1	Dibromochloromethane	ug/L	10 U	10 U		10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	10 U	10 U		10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
75-25-2	Bromoform	ug/L	10 U	10 U		10 U	10 U	10 U
108-10-1	4-Methyl-2-pentanone	ug/L	10 U	10 U		10 U	10 U	10 U
591-78-6	2-Hexanone	ug/L	10 U	10 U		10 U	10 U	10 U
127-18-4	Tetrachloroethene	ug/L	10 U	10 U		10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U		10 U	10 U	10 U
108-88-3	Toluene	ug/L	10 U	10 U		10 U	10 U	10 U
108-90-7	Chlorobenzene	ug/L	10 U	10 U		10 U	10 U	10 U
100-41-4	Ethylbenzene	ug/L	10 U	10 U		10 U	10 U	10 U
100-42-5	Styrene	ug/L	10 U	10 U		10 U	10 U	10 U
1330-20-7	Xylene (total)	ug/L	10 U	10 U		10 U	10 U	10 U
156-59-2	cis-1,2-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	10 U
156-60-5	trans-1,2-Dichloroethene	ug/L	10 U	10 U		10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	blind dup J8489 OB 9595 Water 10/22/98	blind dup M0196 OB 1489 Water 4/20/99	blind dup RE M0196RE OB 1489 Water 4/20/99	equipment blank J8488 OB 9595 Water 10/22/98	eq blank M0300 OB 1516 Water 4/21/99	eq blank RE M0300RE OB 1516 Water 4/21/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L	10 U	10 U	10 U	11 U	11 U	
108-95-2	Phenol	ug/L	10 U	10 U	10 U	11 U	11 U	
95-57-8	2-Chlorophenol	ug/L	10 U	10 U	10 U	11 U	11 U	
541-73-1	1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
106-46-7	1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
95-50-1	1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L	10 U	10 U	10 U	11 U	11 U	
95-48-7	2-Methylphenol	ug/L	10 U	10 U	10 U	11 U	11 U	
67-72-1	Hexachloroethane	ug/L	10 U	10 U	10 U	11 U	11 U	
621-64-7	N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	11 U	11 U	
106-44-5	4-Methylphenol	ug/L	10 U	10 U	10 U	11 U	11 U	
98-95-3	Nitrobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
78-59-1	Isophorone	ug/L	10 U	10 U	10 U	11 U	11 U	
88-75-5	2-Nitrophenol	ug/L	10 U	10 U	10 U	11 U	11 U	
105-67-9	2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	11 U	11 U	
111-91-1	bis(2-Chloroethoxy)methane	ug/L	10 U	10 U	10 U	11 U	11 U	
120-83-2	2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	11 U	11 U	
120-82-1	1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
91-20-3	Naphthalene	ug/L	10 U	10 U	10 U	11 U	11 U	
106-47-8	4-Chloroaniline	ug/L	10 U	10 U	10 U	11 U	11 U	
87-68-3	Hexachlorobutadiene	ug/L	10 U	10 U	10 U	11 U	11 U	
59-50-7	4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	11 U	11 U	
91-57-6	2-Methylnaphthalene	ug/L	10 U	10 U	10 U	11 U	11 U	
77-47-4	Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	11 U	11 U	
88-06-2	2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	11 U	11 U	
95-95-4	2,4,5-Trichlorophenol	ug/L	25 U	26 U	26 U	27 U	26 U	
91-58-7	2-Chloronaphthalene	ug/L	10 U	10 U	10 U	11 U	11 U	
88-74-4	2-Nitroaniline	ug/L	25 U	26 U	26 U	27 U	26 U	
208-96-8	Acenaphthylene	ug/L	10 U	10 U	10 U	11 U	11 U	
131-11-3	Dimethyl phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
606-20-2	2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	11 U	11 U	
83-32-9	Acenaphthene	ug/L	10 U	10 U	10 U	11 U	11 U	
99-09-2	3-Nitroaniline	ug/L	25 U	26 U	26 U	27 U	26 U	
51-28-5	2,4-Dinitrophenol	ug/L	25 U	26 U	26 U	27 U	26 U	
132-64-9	Dibenzofuran	ug/L	10 U	10 U	10 U	11 U	11 U	
121-14-2	2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	11 U	11 U	
100-02-7	4-Nitrophenol	ug/L	25 U	26 U	26 U	27 U	26 U	
86-73-7	Fluorene	ug/L	10 U	10 U	10 U	11 U	11 U	
7005-72-3	4-Chlorophenyl phenyl ether	ug/L	10 U	10 U	10 U	11 U	11 U	
84-66-2	Diethyl phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
100-01-6	4-Nitroaniline	ug/L	25 U	26 U	26 U	27 U	26 U	
534-52-1	4,6-Dinitro-2-methylphenol	ug/L	25 U	26 U	26 U	27 U	26 U	
86-30-6	N-Nitrosodiphenylamine	ug/L	10 U	10 U	10 U	11 U	11 U	
101-55-3	4-Bromophenyl phenyl ether	ug/L	10 U	10 U	10 U	11 U	11 U	
118-74-1	Hexachlorobenzene	ug/L	10 U	10 U	10 U	11 U	11 U	
87-86-5	Pentachlorophenol	ug/L	25 U	26 U	26 U	27 U	26 U	
85-01-8	Phenanthrene	ug/L	10 U	10 U	10 U	11 U	11 U	
120-12-7	Anthracene	ug/L	10 U	10 U	10 U	11 U	11 U	
84-74-2	Di-n-butyl phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
86-74-8	Carbazole	ug/L	10 U	10 U	10 U	11 U	11 U	
206-44-0	Fluoranthene	ug/L	10 U	10 U	10 U	11 U	11 U	
129-00-0	Pyrene	ug/L	10 U	10 U	10 U	11 U	11 U	
85-68-7	Butyl benzyl phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
91-94-1	3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	11 U	11 U	
56-55-3	Benzo[a]anthracene	ug/L	10 U	10 U	10 U	11 U	11 U	
218-01-9	Chrysene	ug/L	10 U	10 U	10 U	11 U	11 U	
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
117-84-0	Di-n-octyl phthalate	ug/L	10 U	10 U	10 U	11 U	11 U	
205-99-2	Benzo[b]fluoranthene	ug/L	10 U	10 U	10 U	11 U	11 U	
207-08-9	Benzo[k]fluoranthene	ug/L	10 U	10 U	10 U	11 U	11 U	
50-32-8	Benzo[a]pyrene	ug/L	10 U	10 U	10 U	11 U	11 U	
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L	10 U	10 U	10 U	11 U	11 U	
53-70-3	Dibenz[a,h]anthracene	ug/L	10 U	10 U	10 U	11 U	11 U	
191-24-2	Benzo[g,h,i]perylene	ug/L	10 U	10 U	10 U	11 U	11 U	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	blind dup J8489 OB 9595 Water 10/22/98 ug/L	blind dup M0196 OB 1489 Water 4/20/99 ug/L	blind dup RE M0196RE OB 1489 Water 4/20/99 ug/L	equipment blank J8488 OB 9595 Water 10/22/98 ug/L	eq blank M0300 OB 1516 Water 4/21/99 ug/L	eq blank RE M0300RE OB 1516 Water 4/21/99 ug/L
	PESTICIDES/PCBs							
319-84-6	alpha-BHC		0.05 U	0.051 U		0.054 U	0.0013 BJP	
319-85-7	beta-BHC		0.05 U	0.051 U		0.054 U	0.051 U	
319-86-8	delta-BHC		0.05 U	0.051 U		0.054 U	0.051 U	
58-89-9	gamma-BHC		0.05 U	0.051 U		0.054 U	0.051 U	
76-44-8	Heptachlor		0.05 U	0.051 U		0.054 U	0.051 U	
309-00-2	Aldrin		0.05 U	0.051 U		0.054 U	0.051 U	
1024-57-3	Heptachlor epoxide		0.0004 JP	0.0013 JP		0.054 U	0.051 U	
959-98-8	Endosulfan I		0.0028 JP	0.0014 JP		0.054 U	0.051 U	
60-57-1	Dieldrin		0.1 U	0.00041 JP		0.11 U	0.1 U	
72-55-9	4,4'-DDE		0.1 U	0.1 U		0.11 U	0.1 U	
72-20-8	Endrin		0.1 U	0.1 U		0.11 U	0.1 U	
33213-65-9	Endosulfan II		0.00093 JP	0.00054 JP		0.11 U	0.00097 JP	
72-54-8	4,4'-DDD		0.1 U	0.1 U		0.11 U	0.1 U	
1031-07-8	Endosulfan sulfate		0.00086 JP	0.00062 JP		0.11 U	0.1 U	
50-29-3	4,4'-DDT		0.1 U	0.1 U		0.11 U	0.1 U	
72-43-5	Methoxychlor		0.5 U	0.51 U		0.54 U	0.51 U	
53494-70-5	Endrin ketone		0.1 U	0.1 U		0.11 U	0.1 U	
7421-93-4	Endrin aldehyde		0.0015 JP	0.1 U		0.11 U	0.1 U	
5103-71-9	alpha-Chlordane		0.05 U	0.051 U		0.054 U	0.051 U	
5103-74-2	gamma-Chlordane		0.0049 JP	0.011 BJP		0.054 U	0.051 U	
8001-35-2	Toxaphene		5 U	5.1 U		5.4 U	5.1 U	
12674-11-2	Aroclor-1016		1 U	1 U		1.1 U	1 U	
11104-28-2	Aroclor-1221		2 U	2 U		2.2 U	2.1 U	
11141-16-5	Aroclor-1232		1 U	1 U		1.1 U	1 U	
53469-21-9	Aroclor-1242		1 U	1 U		1.1 U	1 U	
12672-29-6	Aroclor-1248		1 U	1 U		1.1 U	1 U	
11097-69-1	Aroclor-1254		1 U	1 U		1.1 U	1 U	
11096-82-5	Aroclor-1260		1 U	1 U		1.1 U	1 U	
	INORGANICS							
7429-90-5	Aluminum		602	720		16 U	18.1 B	
7440-36-0	Antimony		1.5 B	1.8 B		1.3 U	2.6 B	
7440-38-2	Arsenic		6.9 B	3.6 B		3.1 U	1.9 U	
7440-39-3	Barium		182 B	165 BE		0.32 U	1.2 BE	
7440-41-7	Beryllium		0.12 B	0.17 B		0.07 U	1.1 B	
7440-43-9	Cadmium		0.73 B	0.42 U		0.43 U	1.2 B	
7440-70-2	Calcium		139000	152000		14.8 U	23.8 B	
7440-47-3	Chromium		12.6	14.3		2.8 U	1.4 U	
7440-48-4	Cobalt		2.3 U	1.6 U		2.3 U	1.6 U	
7440-50-8	Copper		3.2 B	5.6 B		0.8 U	1.8 B	
7439-89-6	Iron		21200	17800		4 B	10.9 B	
7439-92-1	Lead		2.1 U	1.7 B		2.1 U	1.1 U	
7439-95-4	Magnesium		39000	35500		17.7 U	10.5 U	
7439-96-5	Manganese		228	674		0.52 U	1.2 B	
7439-97-6	Mercury		0.15 U	0.11 U		0.15 U	0.11 U	
7440-02-0	Nickel		2.9 B	9.6 B		0.95 B	1.6 B	
7440-09-7	Potassium		884 B	10100		81.1 B	69.2 U	
7782-49-2	Selenium		3 B	3.6 U		2 U	3.6 U	
7440-22-4	Silver		1.2 U	1 U		1.2 U	1 U	
7440-23-5	Sodium		75300	84600		56.9 B	112 B	
7440-28-0	Thallium		5.5 U	3.8 U		5.5 U	3.8 U	
7440-62-2	Vanadium		2.3 B	4.9 B		1.2 U	1.8 B	
7440-66-6	Zinc		29.4	22.1		1.9 B	2.1 B	
57-12-5	Cyanide		10 U	10 U		10 U	10 U	

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	trip blank J8342 OB 9571 Water 10/21/98	trip blank J8490 OB 9595 Water 10/22/98	trip blank J8493 OB 9596 Water 10/23/98	trip blank M0198 OB 1489 Water 4/19/99	trip blank M0301 OB 1516 Water 4/21/99	trip blank RE M0301RE OB 1516 Water 4/21/99
	VOLATILES							
74-87-3	Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
74-83-9	Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-01-4	Vinyl chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-09-2	Methylene chloride	ug/L	1 J	10 U	1 J	2 JB	2 JB	1 JB
67-64-1	Acetone	ug/L	10 U	6 J B	6 J B	10 U	10 U	10 U
75-15-0	Carbon disulfide	ug/L	10 U	10 U	10 U	6 J	28	10 U
75-35-4	1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-35-3	1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
67-66-3	Chloroform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-23-5	Carbon tetrachloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
591-78-6	2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
127-18-4	Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
156-59-2	cis-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
156-60-5	trans-1,2-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX A

CAS NO.	COMPOUND	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	trip blank J8342 OB 9571 Water 10/21/98	trip blank J8490 OB 9595 Water 10/22/98	trip blank J8493 OB 9596 Water 10/23/98	trip blank M0198 OB 1489 Water 4/19/99	trip blank M0301 OB 1516 Water 4/21/99	trip blank RE M0301RE OB 1516 Water 4/21/99
	SEMIVOLATILES							
111-44-4	bis(2-Chloroethyl)ether	ug/L						
108-95-2	Phenol	ug/L						
95-57-8	2-Chlorophenol	ug/L						
541-73-1	1,3-Dichlorobenzene	ug/L						
106-46-7	1,4-Dichlorobenzene	ug/L						
95-50-1	1,2-Dichlorobenzene	ug/L						
108-60-1	2,2'-oxybis(1-chloropropane)	ug/L						
95-48-7	2-Methylphenol	ug/L						
67-72-1	Hexachloroethane	ug/L						
621-64-7	N-Nitroso-di-n-propylamine	ug/L						
106-44-5	4-Methylphenol	ug/L						
98-95-3	Nitrobenzene	ug/L						
78-59-1	Isophorone	ug/L						
88-75-5	2-Nitrophenol	ug/L						
105-67-9	2,4-Dimethylphenol	ug/L						
111-91-1	bis(2-Chloroethoxy)methane	ug/L						
120-83-2	2,4-Dichlorophenol	ug/L						
120-82-1	1,2,4-Trichlorobenzene	ug/L						
91-20-3	Naphthalene	ug/L						
106-47-8	4-Chloroaniline	ug/L						
87-68-3	Hexachlorobutadiene	ug/L						
59-50-7	4-Chloro-3-methylphenol	ug/L						
91-57-6	2-Methylnaphthalene	ug/L						
77-47-4	Hexachlorocyclopentadiene	ug/L						
88-06-2	2,4,6-Trichlorophenol	ug/L						
95-95-4	2,4,5-Trichlorophenol	ug/L						
91-58-7	2-Chloronaphthalene	ug/L						
88-74-4	2-Nitroaniline	ug/L						
208-96-8	Acenaphthylene	ug/L						
131-11-3	Dimethyl phthalate	ug/L						
606-20-2	2,6-Dinitrotoluene	ug/L						
83-32-9	Acenaphthene	ug/L						
99-09-2	3-Nitroaniline	ug/L						
51-28-5	2,4-Dinitrophenol	ug/L						
132-64-9	Dibenzofuran	ug/L						
121-14-2	2,4-Dinitrotoluene	ug/L						
100-02-7	4-Nitrophenol	ug/L						
86-73-7	Fluorene	ug/L						
7005-72-3	4-Chlorophenyl phenyl ether	ug/L						
84-66-2	Diethyl phthalate	ug/L						
100-01-6	4-Nitroaniline	ug/L						
534-52-1	4,6-Dinitro-2-methylphenol	ug/L						
86-30-6	N-Nitrosodiphenylamine	ug/L						
101-55-3	4-Bromophenyl phenyl ether	ug/L						
118-74-1	Hexachlorobenzene	ug/L						
87-86-5	Pentachlorophenol	ug/L						
85-01-8	Phenanthrene	ug/L						
120-12-7	Anthracene	ug/L						
84-74-2	Di-n-butyl phthalate	ug/L						
86-74-8	Carbazole	ug/L						
206-44-0	Fluoranthene	ug/L						
129-00-0	Pyrene	ug/L						
85-68-7	Butyl benzyl phthalate	ug/L						
91-94-1	3,3'-Dichlorobenzidine	ug/L						
56-55-3	Benzo[a]anthracene	ug/L						
218-01-9	Chrysene	ug/L						
117-81-7	bis(2-Ethylhexyl)phthalate	ug/L						
117-84-0	Di-n-octyl phthalate	ug/L						
205-99-2	Benzo[b]fluoranthene	ug/L						
207-08-9	Benzo[k]fluoranthene	ug/L						
50-32-8	Benzo[a]pyrene	ug/L						
193-39-5	Indeno[1,2,3-cd]pyrene	ug/L						
53-70-3	Dibenz[a,h]anthracene	ug/L						
191-24-2	Benzo[g,h,i]perylene	ug/L						

APPENDIX A

		SAMPLE ID:	trip blank	trip blank	trip blank	trip blank	trip blank	trip blank RE
		LAB ID:	J8342	J8490	J8493	M0198	M0301	M0301RE
		SOURCE:	OB	OB	OB	OB	OB	OB
		SDG:	9571	9595	9596	1489	1516	1516
		MATRIX:	Water	Water	Water	Water	Water	Water
		SAMPLED:	10/21/98	10/22/98	10/23/98	4/19/99	4/21/99	4/21/99
CAS NO.	COMPOUND	UNITS:						
	PESTICIDES/PCBs							
319-84-6	alpha-BHC	ug/L						
319-85-7	beta-BHC	ug/L						
319-86-8	delta-BHC	ug/L						
58-89-9	gamma-BHC	ug/L						
76-44-8	Heptachlor	ug/L						
309-00-2	Aldrin	ug/L						
1024-57-3	Heptachlor epoxide	ug/L						
959-98-8	Endosulfan I	ug/L						
60-57-1	Dieldrin	ug/L						
72-55-9	4,4'-DDE	ug/L						
72-20-8	Endrin	ug/L						
33213-65-9	Endosulfan II	ug/L						
72-54-8	4,4'-DDD	ug/L						
1031-07-8	Endosulfan sulfate	ug/L						
50-29-3	4,4'-DDT	ug/L						
72-43-5	Methoxychlor	ug/L						
53494-70-5	Endrin ketone	ug/L						
7421-93-4	Endrin aldehyde	ug/L						
5103-71-9	alpha-Chlordane	ug/L						
5103-74-2	gamma-Chlordane	ug/L						
8001-35-2	Toxaphene	ug/L						
12674-11-2	Aroclor-1016	ug/L						
11104-28-2	Aroclor-1221	ug/L						
11141-16-5	Aroclor-1232	ug/L						
53469-21-9	Aroclor-1242	ug/L						
12672-29-6	Aroclor-1248	ug/L						
11097-69-1	Aroclor-1254	ug/L						
11096-82-5	Aroclor-1260	ug/L						
	INORGANICS							
7429-90-5	Aluminum	ug/L						
7440-36-0	Antimony	ug/L						
7440-38-2	Arsenic	ug/L						
7440-39-3	Barium	ug/L						
7440-41-7	Beryllium	ug/L						
7440-43-9	Cadmium	ug/L						
7440-70-2	Calcium	ug/L						
7440-47-3	Chromium	ug/L						
7440-48-4	Cobalt	ug/L						
7440-50-8	Copper	ug/L						
7439-89-6	Iron	ug/L						
7439-92-1	Lead	ug/L						
7439-95-4	Magnesium	ug/L						
7439-96-5	Manganese	ug/L						
7439-97-6	Mercury	ug/L						
7440-02-0	Nickel	ug/L						
7440-09-7	Potassium	ug/L						
7782-49-2	Selenium	ug/L						
7440-22-4	Silver	ug/L						
7440-23-5	Sodium	ug/L						
7440-28-0	Thallium	ug/L						
7440-62-2	Vanadium	ug/L						
7440-66-6	Zinc	ug/L						
57-12-5	Cyanide	ug/L						

APPENDIX B

APPENDIX B-1
MONITORING WELL CHEMICAL ANALYSIS RESULTS
(1997 TO 1999)

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-1 162140 COLUMBIA MW1 WATER 8/12/97	MW-1 G5092 OBG 5116 Water 11/20/97	MW-1 H0915 OB 6847 Water 2/19/98	MW-1 H7392 OB 7810 Water 5/27/98	MW-1 J8338 OB 9571 Water 10/21/98	MW-1 M0188 OB 1489 Water 4/19/99	MW- 16213 COLUM MW1 WATE 8/12/9
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L	ND	ND	ND	ND	4 J	5 JB	ND
71-43-2	Benzene	1	ug/L	ND	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	ND	ND	ND	19	ND
67-66-3	Chloroform	7	ug/L	ND	ND	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L	ND	ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L	ND	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	ND	ND	ND	ND	2 J	1 JB	ND
100-42-5	Styrene	5	ug/L	ND	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L	ND	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L	2 J	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L	2 J	ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	2
84-74-2	Di-n-butyl phthalate	50	ug/L	2 JB	ND	ND	ND	ND	ND	3
84-66-2	Diethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	1
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	ND	ND	4
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	2 JB	ND	ND	ND	ND	ND	2
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
	Total PAHs			ND	ND	ND	ND	ND	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L	ND	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L	ND	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	ND	ND	ND	0.00072 JP	ND	0.003 JP	ND
33213-65-	Endosulfan II	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	ND	ND	ND	0.0022 BJP	0.0013 JP	ND
72-20-8	Endrin	0 ND	ug/L	ND	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	ND	ND	ND	ND	ND
53494-70-	Endrin ketone	5	ug/L	ND	ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L	ND	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	ND	ND	ND	ND	0.0038 J	ND
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	0.00055 JP	ND	0.0012 J	ND	0.01 BJP	ND
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L	ND	ND	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	ND	0.01 JP	0.0024 JP	0.008 BJP	ND
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	273	1580	3080	1940	2730	830	329
7440-36-0	Antimony	3 (G)	ug/L	ND	ND	ND	ND	1.7 B	3.2 B	2.6
7440-38-2	Arsenic	25	ug/L	35.3	23.9	25	23.8	23.9	24.5	38.7
7440-39-3	Barium	1000	ug/L	733	353	447	340	353	353 E	76.9
7440-41-7	Beryllium	3 (G)	ug/L	0.46 B	0.1 B	0.17 B	ND	0.14 B	0.38 B	0.38
7440-43-9	Cadmium	5	ug/L	1.8 B	0.48 B	ND	ND	ND	0.62 B	0.89
7440-70-2	Calcium	NS	ug/L	188000	203000	213000	206000	214000	222000	202000
7440-47-3	Chromium	50	ug/L	1.7 B	6.5 B	7.2 B	5 B	11.5	9 B	ND
7440-48-4	Cobalt	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	ug/L	ND	5.3 B	4.6 B	5.2 B	7.2 B	3.8 B	ND
7439-89-6	Iron	500 *	ug/L	7410	10300	11800	11600	13100	9120	6020
7439-92-1	Lead	25	ug/L	ND	1.1 B	1.3 B	ND	4.5	3.4	ND
7439-95-4	Magnesium	35000 (G)	ug/L	54600	47400	52600	49200	53500	52700	66300
7439-96-5	Manganese	300 *	ug/L	58.2	136	188	157	201	155	59.6
7439-97-6	Mercury	2	ug/L	ND	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L	ND	4.9 B	4.9 B	4.4 B	6.9 B	2.8 B	ND
7440-09-7	Potassium	NS	ug/L	2280	1320 B	1790 B	1790 B	1390 B	1780 B	2200
7782-49-2	Selenium	10	ug/L	ND	ND	ND	ND	2.3 B	ND	ND
7440-22-4	Silver	50	ug/L	1.3 B	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	ug/L	35500	33100	38800	34400	33400	39100	16500
7440-28-0	Thallium	4 (G)	ug/L	16	4.4 B	ND	ND	ND	ND	27
7440-62-2	Vanadium	NS	ug/L	ND	3.5 B	5.9 B	4.1 B	5.5 B	2.4 B	ND
7440-66-6	Zinc	2000 (G)	ug/L	57	29.5	19.3 B	25.3	55.7	13.6 B	55.7
57-12-5	Cyanide	200	ug/L	ND	ND	ND	ND	ND	ND	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	IA	MW-2 G5114 OBG 5116 Water 11/20/97	MW-2 H0916 OB 6847 Water 2/19/98	MW-2 H7394 OB 7810 Water 5/28/98	MW-2 J8340 OB 9571 Water 10/21/98	MW-2 M0190 OB 1489 Water 4/20/99	MW-3 162134 COLUMBIA MW1 WATER 8/12/97
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L		ND	ND	ND	4 J	ND	ND
71-43-2	Benzene	1	ug/L		ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	NS	ug/L		ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L		ND	ND	ND	ND	2 J	ND
67-66-3	Chloroform	7	ug/L		1 J	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L		ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L		ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L		ND	ND	ND	2 J	ND	ND
100-42-5	Styrene	5	ug/L		ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L		ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	JB	ND	ND	ND	ND	ND	1 JB
84-74-2	Di-n-butyl phthalate	50	ug/L	JB	ND	ND	ND	ND	ND	2 JB
84-66-2	Diethyl phthalate	50 (G)	ug/L	J	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L		ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L		ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L		ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	JB	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	JB	1 J	1 J	ND	ND	ND	1 JB
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L		ND	ND	ND	ND	ND	ND
	Total PAHs				ND	ND	ND	ND	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L		ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L		ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L		ND	ND	ND	ND	0.0007 JP	ND
60-57-1	Dieldrin	0.004	ug/L		ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L		ND	ND	ND	ND	0.0012 JP	ND
33213-65-	Endosulfan II	NS	ug/L		ND	ND	0.003 JP	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L		ND	25 JP	ND	ND	0.00092 JP	ND
72-20-8	Endrin	0 ND	ug/L		ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L		ND	ND	0.0042 JP	0.0048 JP	ND	ND
53494-70-	Endrin ketone	5	ug/L		ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L		ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L		ND	ND	0.00047 JP	ND	0.0024 JP	ND
72-43-5	Methoxychlor	35	ug/L		ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L		ND	ND	0.0024 J	ND	0.0089 BJ	ND
5103-71-9	alpha-Chlordane	NS	ug/L		ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L		ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L		ND	ND	ND	ND	0.0051 JP	ND
5103-74-2	gamma-Chlordane	NS	ug/L		ND	ND	0.0025 JP	0.0016 JP	0.013 BJP	ND
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L		37800	34600	19400	17900	12100	197 B
7440-36-0	Antimony	3 (G)	ug/L	BE	ND	ND	ND	ND	2.9 B	ND
7440-38-2	Arsenic	25	ug/L		51.1	45.2	35.7	34.6	27.5	24.2
7440-39-3	Barium	1000	ug/L	B	457	432	275	260	180 BE	188 B
7440-41-7	Beryllium	3 (G)	ug/L	B	2 B	1.7 B	0.94 B	0.88 B	0.71 B	1.8 B
7440-43-9	Cadmium	5	ug/L	B	1.5 B	0.5 B	ND	1.1 B	0.86 B	5.9
7440-70-2	Calcium	NS	ug/L		459000	452000	378000	344000	347000	257000
7440-47-3	Chromium	50	ug/L		94.1	89.4	77.8	103	56.3	2.6 B
7440-48-4	Cobalt	NS	ug/L		29.4 B	23.6 B	10.8 B	13.3 B	9.2 B	2.4 B
7440-50-8	Copper	200	ug/L		112	103	51.1	55.9	33.2	ND
7439-89-6	Iron	500 *	ug/L		79000	67700	42000	38800	27200	30300
7439-92-1	Lead	25	ug/L		108	85.1	45.4	39.2	26.7	ND
7439-95-4	Magnesium	35000 (G)	ug/L		118000	118000	95400	109000	103000	70600
7439-96-5	Manganese	300 *	ug/L		1920	1810	1160	1000	949	831
7439-97-6	Mercury	2	ug/L		0.17 B	ND	0.1 B	ND	ND	ND
7440-02-0	Nickel	100	ug/L		77.5	73.1	51.2	61.2	35 B	ND
7440-09-7	Potassium	NS	ug/L	B	7800	7460	5660	4200 B	4330 B	13600
7782-49-2	Selenium	10	ug/L		6.2	ND	ND	2 B	ND	ND
7440-22-4	Silver	50	ug/L		ND	ND	ND	ND	ND	1.7 B
7440-23-5	Sodium	20000	ug/L		19700	20100	15900	18700	19100	129000
7440-28-0	Thallium	4 (G)	ug/L		7.6 B	6.6 B	ND	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L		71.6	60.6	39.8 B	33.7 B	23.1 B	ND
7440-66-6	Zinc	2000 (G)	ug/L		376	321	187	184	110	59.1
57-12-5	Cyanide	200	ug/L		ND	ND	ND	ND	ND	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-3 G5115 OBG 5116 Water 11/20/97	MW-3 H0917 OB 6847 Water 2/19/98	MW-3 H7395 OB 7810 Water 5/28/98	MW-3 J8484 OB 9595 Water 10/22/98	MW-3 M0191 OB 1489 Water 4/20/99	MW-3 RE M0191RE OB 1489 Water 4/20/99	MW- 1621 COLUM MW WAT 8/12/
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L	ND	ND	ND	4 J	6 JB	NA	ND
71-43-2	Benzene	1	ug/L	ND	ND	ND	ND	ND	NA	ND
78-93-3	2-Butanone	NS	ug/L	ND	ND	ND	ND	ND	NA	ND
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	ND	ND	5 J	NA	ND
67-66-3	Chloroform	7	ug/L	ND	ND	ND	ND	ND	NA	ND
75-35-3	1,1-Dichloroethane	5	ug/L	ND	ND	ND	ND	ND	NA	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	ND	ND	ND	ND	NA	ND
100-41-4	Ethylbenzene	5	ug/L	ND	ND	ND	ND	ND	NA	ND
75-09-2	Methylene chloride	5	ug/L	ND	ND	ND	2 J	2 JB	NA	ND
100-42-5	Styrene	5	ug/L	ND	ND	ND	ND	ND	NA	ND
127-18-4	Tetrachloroethene	5	ug/L	ND	ND	ND	ND	ND	NA	ND
108-88-3	Toluene	5	ug/L	ND	ND	ND	ND	ND	NA	ND
1330-20-7	Xylene (total)	5	ug/L	ND	ND	ND	ND	ND	NA	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	ND	ND	ND	ND	NA	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	ND	ND	1
84-66-2	Diethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND	ND	2
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
	Total PAHs			ND	ND	ND	ND	ND	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L	ND	ND	ND	ND	ND	NA	ND
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	ND	ND	ND	NA	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	ND	ND	NA	ND
60-57-1	Dieldrin	0.004	ug/L	ND	0.002 JP	ND	ND	0.0024 JP	NA	ND
959-98-8	Endosulfan I	NS	ug/L	ND	ND	ND	ND	0.0013 JP	NA	ND
33213-65-	Endosulfan II	NS	ug/L	ND	ND	ND	ND	ND	NA	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	0.0029 JP	0.0048 JP	0.011 BJP	0.0015 JP	NA	ND
72-20-8	Endrin	0 ND	ug/L	ND	ND	ND	ND	ND	NA	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	ND	ND	ND	NA	ND
53494-70-	Endrin ketone	5	ug/L	ND	ND	ND	ND	ND	NA	ND
76-44-8	Heptachlor	ND	ug/L	ND	ND	ND	ND	ND	NA	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	ND	0.00067 JP	ND	0.0052 JP	NA	ND
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND	NA	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	0.0024 J	ND	0.00093 BJP	NA	ND
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND	NA	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	ND	ND	NA	ND
58-89-9	gamma-BHC	ND	ug/L	ND	ND	ND	ND	ND	NA	ND
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	0.00073 JP	0.001 JP	0.014 BJP	NA	ND
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	3510	2060	1510	789	665	NA	89.7
7440-36-0	Antimony	3 (G)	ug/L	ND	ND	ND	ND	2.1 B	NA	ND
7440-38-2	Arsenic	25	ug/L	7.9 B	ND	9 B	6.2 B	2.6 B	NA	17.9
7440-39-3	Barium	1000	ug/L	254	245	187 B	157 B	153 BE	NA	308
7440-41-7	Beryllium	3 (G)	ug/L	0.29 B	0.24 B	ND	0.15 B	0.15 B	NA	1.1
7440-43-9	Cadmium	5	ug/L	0.32 B	ND	ND	ND	ND	NA	5.1
7440-70-2	Calcium	NS	ug/L	235000	216000	188000	172000	149000	NA	140000
7440-47-3	Chromium	50	ug/L	30.5	19.5	10.8	12.7	9.4 B	NA	ND
7440-48-4	Cobalt	NS	ug/L	3.1 B	ND	ND	ND	ND	NA	ND
7440-50-8	Copper	200	ug/L	12.5 B	8.3 B	5.9 B	5 B	2.1 B	NA	ND
7439-89-6	Iron	500 *	ug/L	32900	25400	21300	20800	15900	NA	19300
7439-92-1	Lead	25	ug/L	6.7	2.5 B	ND	2.1 B	ND	NA	ND
7439-95-4	Magnesium	35000 (G)	ug/L	57600	54400	45500	43500	34700	NA	42700
7439-96-5	Manganese	300 *	ug/L	1000	934	835	734	654	NA	200
7439-97-6	Mercury	2	ug/L	ND	ND	ND	ND	ND	NA	ND
7440-02-0	Nickel	100	ug/L	18.4 B	11.2 B	8.7 B	5.8 B	6.4 B	NA	ND
7440-09-7	Potassium	NS	ug/L	17400	17500	15800	13100	9730	NA	1830
7782-49-2	Selenium	10	ug/L	4.1 B	ND	ND	ND	ND	NA	ND
7440-22-4	Silver	50	ug/L	0.67 B	ND	ND	ND	ND	NA	ND
7440-23-5	Sodium	20000	ug/L	118000	117000	104000	104000	83100	NA	70700
7440-28-0	Thallium	4 (G)	ug/L	4.5 B	7.3 B	ND	ND	ND	NA	ND
7440-62-2	Vanadium	NS	ug/L	9.6 B	6 B	6 B	4.2 B	4.2 B	NA	ND
7440-66-6	Zinc	2000 (G)	ug/L	59.9	37.7	27.4	34.6	9.1 B	NA	87.5
57-12-5	Cyanide	200	ug/L	ND	ND	ND	ND	ND	NA	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	IA	MW-4 G5191 OBG 5116 Water 11/20/97	MW-4 H1021 OB 6857 Water 2/20/98	MW-4 H7396 OB 7810 Water 5/28/98	MW-4 J8485 OB 9595 Water 10/22/98	MW-4 M0194 OB 1489 Water 4/20/99	MW-5 162136 COLUMBIA MW1 WATER 8/12/97
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L		2 J	3 J	2 J	4 J	9 J	ND
71-43-2	Benzene	1	ug/L		ND	ND	ND	ND	ND	3 J
78-93-3	2-Butanone	NS	ug/L		ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L		ND	ND	ND	ND	11	ND
67-66-3	Chloroform	7	ug/L		ND	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L		ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L		ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L		ND	ND	ND	2 J	ND	ND
100-42-5	Styrene	5	ug/L		ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L		ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L		ND	ND	ND	ND	ND	1 JB
84-74-2	Di-n-butyl phthalate	50	ug/L	JB	ND	ND	ND	ND	ND	4 JB
84-66-2	Diethyl phthalate	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L		ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L		ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L		ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L		ND	ND	ND	ND	ND	3 JB
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	JB	1 J	ND	ND	ND	ND	2 JB
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L		ND	ND	ND	ND	ND	1 J
	Total PAHs				ND	ND	ND	ND	ND	1 J
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L		ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L		0.0032 JP	ND	ND	ND	0.0007 JP	ND
50-29-3	4,4'-DDT	0.2	ug/L		ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L		ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L		ND	ND	ND	ND	0.0043 JP	ND
33213-65-	Endosulfan II	NS	ug/L		ND	ND	ND	0.0008 JP	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L		ND	ND	ND	0.0017 BJP	0.0042 JP	ND
72-20-8	Endrin	0 ND	ug/L		ND	ND	0.00073 JP	ND	0.0028 J	ND
7421-93-4	Endrin aldehyde	5	ug/L		ND	ND	ND	0.0028 JP	ND	ND
53494-70-	Endrin ketone	5	ug/L		ND	ND	ND	0.0014 JP	ND	ND
76-44-8	Heptachlor	ND	ug/L		ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L		ND	ND	ND	ND	0.00034 JP	ND
72-43-5	Methoxychlor	35	ug/L		ND	ND	ND	ND	0.0033 JP	ND
319-84-6	alpha-BHC	0.01	ug/L		0.0045 JP	ND	ND	ND	0.0089 BJP	ND
5103-71-9	alpha-Chlordane	NS	ug/L		ND	ND	ND	ND	0.00093 JP	ND
319-86-8	delta-BHC	0.04	ug/L		ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L		ND	ND	ND	ND	0.004 JP	ND
5103-74-2	gamma-Chlordane	NS	ug/L		ND	ND	0.002 JP	0.0017 JP	0.0056 BJP	ND
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	B	1460	1300	553	515	451	114 B
7440-36-0	Antimony	3 (G)	ug/L		ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	ug/L		ND	ND	9.6 B	6.6 B	8.3 B	15.6
7440-39-3	Barium	1000	ug/L		47.6 B	53.3 B	214	176 B	175 BE	171 B
7440-41-7	Beryllium	3 (G)	ug/L	B	0.11 B	0.09 B	ND	ND	ND	1.8 B
7440-43-9	Cadmium	5	ug/L		3.3 B	0.39 B	ND	ND	0.88 B	6.6
7440-70-2	Calcium	NS	ug/L		59000	63600	141000	132000	137000	196000
7440-47-3	Chromium	50	ug/L		7.6 B	5.2 B	2 B	7.1 B	8.9 B	ND
7440-48-4	Cobalt	NS	ug/L		1.6 B	ND	ND	ND	ND	3 B
7440-50-8	Copper	200	ug/L		7.2 B	3.7 B	1.7 B	2.6 B	1.8 B	ND
7439-89-6	Iron	500 *	ug/L		3710	1860	19400	20100	19400	32800
7439-92-1	Lead	25	ug/L		5.9	ND	ND	2.5 B	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L		16800	17800	38900	36700	37500	51800
7439-96-5	Manganese	300 *	ug/L		110	94.4	224	213	225	226
7439-97-6	Mercury	2	ug/L		ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L		6.7 B	4.2 B	1.8 B	1.4 B	2.7 B	ND
7440-09-7	Potassium	NS	ug/L	B	1100 B	2130 B	1120 B	883 B	1180 B	4220 B
7782-49-2	Selenium	10	ug/L		ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	ug/L		ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	ug/L		3490 B	5100	64100	70500	75000	49800
7440-28-0	Thallium	4 (G)	ug/L		ND	4.1 B	ND	ND	ND	13.5
7440-62-2	Vanadium	NS	ug/L		3.5 B	3.6 B	2.7 B	1.8 B	2.6 B	ND
7440-66-6	Zinc	2000 (G)	ug/L		51	27.6	25.1	24.2	13.2 B	64.1
57-12-5	Cyanide	200	ug/L		ND	ND	ND	ND	ND	4.7 B

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-5 G5119 OBG 5116 Water 11/20/97	MW-5 H1022 OB 6857 Water 2/20/98	MW-5 H7532 OB 7830 Water 5/29/98	MW-5RE H7532RE OB 7830 Water 5/29/98	MW-5 J8487 OB 9595 Water 10/22/98	MW-5 M0195 OB 1489 Water 4/20/99	MW-5 M0195 OB 148 Wat 4/20/
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L	ND	5 J	10	NA	19	7 J	NA
71-43-2	Benzene	1	ug/L	25	92	97	NA	110	110	NA
78-93-3	2-Butanone	NS	ug/L	ND	2 J	ND	NA	ND	ND	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	ND	NA	ND	6 J	NA
67-66-3	Chloroform	7	ug/L	ND	ND	ND	NA	ND	ND	NA
75-35-3	1,1-Dichloroethane	5	ug/L	ND	ND	ND	NA	ND	ND	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	ND	ND	NA	ND	ND	NA
100-41-4	Ethylbenzene	5	ug/L	ND	5 J	8 J	NA	10 J	10 J	NA
75-09-2	Methylene chloride	5	ug/L	ND	ND	ND	NA	1 J	ND	NA
100-42-5	Styrene	5	ug/L	ND	2 J	1 J	NA	1 J	2 J	NA
127-18-4	Tetrachloroethene	5	ug/L	ND	ND	ND	NA	ND	ND	NA
108-88-3	Toluene	5	ug/L	4 J	28	35	NA	28	15	NA
1330-20-7	Xylene (total)	5	ug/L	2 J	29	42	NA	40	40	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	ND	ND	NA	ND	ND	NA
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	7 J	25	30	31	23	18	17
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	2 J	6 J	6 J	5 J	4 J	3 J	4
106-44-5	4-Methylphenol	1	ug/L	4 J	9 J	ND	ND	1 J	6 J	7
108-95-2	Phenol	1	ug/L	3 J	6 J	2 J	2 J	1 J	4 J	4
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L	4 J	8 J	4 J	4 J	9 J	10 J	10
	Total PAHs			4 J	8 J	4 J	4 J	9 J	10 J	10
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L	ND	ND	ND	NA	ND	0.0016 JP	NA
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	ND	NA	0.0011 JP	0.0014 JP	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	NA	ND	ND	NA
60-57-1	Dieldrin	0.004	ug/L	ND	0.0095 JP	0.003 JP	NA	ND	0.0036 JP	NA
959-98-8	Endosulfan I	NS	ug/L	ND	ND	ND	NA	ND	0.0025 JP	NA
33213-65-	Endosulfan II	NS	ug/L	ND	0.0026 J	0.0011 BJP	NA	ND	ND	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	ND	0.0067 JP	NA	0.0037 BJP	0.004 JP	NA
72-20-8	Endrin	0 ND	ug/L	ND	ND	0.0078 JP	NA	ND	0.0055 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	ND	NA	ND	ND	NA
53494-70-	Endrin ketone	5	ug/L	ND	ND	ND	NA	ND	ND	NA
76-44-8	Heptachlor	ND	ug/L	ND	ND	0.0047 JP	NA	0.0031 JP	0.00072 JP	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	0.003 JP	ND	NA	0.0015 JP	0.0017 JP	NA
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	NA	ND	0.0061 J	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	ND	NA	ND	0.0069 BJP	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	NA	ND	ND	NA
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	NA	0.0015 J	ND	NA
58-89-9	gamma-BHC	ND	ug/L	ND	0.0037 JP	0.0041 JP	NA	ND	0.0085 J	NA
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	ND	NA	0.0047 JP	0.0018 BJP	NA
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	2630	1100	503	NA	634	499	NA
7440-36-0	Antimony	3 (G)	ug/L	ND	ND	ND	NA	2.9 B	2.5 B	NA
7440-38-2	Arsenic	25	ug/L	11.4	11.4	10.5	NA	10.1	8.6 B	NA
7440-39-3	Barium	1000	ug/L	324	156 B	114 B	NA	109 B	139 BE	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.17 B	0.2 B	ND	NA	0.17 B	0.19 B	NA
7440-43-9	Cadmium	5	ug/L	ND	ND	ND	NA	ND	ND	NA
7440-70-2	Calcium	NS	ug/L	153000	51600	38500	NA	36100	44900	NA
7440-47-3	Chromium	50	ug/L	23	8.9 B	8 B	NA	9.8 B	25.4	NA
7440-48-4	Cobalt	NS	ug/L	ND	ND	ND	NA	ND	ND	NA
7440-50-8	Copper	200	ug/L	13.1 B	13.4 B	17.5 B	NA	14.1 B	12.9 B	NA
7439-89-6	Iron	500 *	ug/L	24200	12800	10200	NA	12200	13400	NA
7439-92-1	Lead	25	ug/L	7.7	6.7	6.3	NA	6.6	4.6	NA
7439-95-4	Magnesium	35000 (G)	ug/L	41700	14600	10100	NA	9220	11200	NA
7439-96-5	Manganese	300 *	ug/L	259	189	160	NA	197	213	NA
7439-97-6	Mercury	2	ug/L	ND	ND	ND	NA	ND	ND	NA
7440-02-0	Nickel	100	ug/L	12.8 B	4.9 B	4.6 B	NA	4.3 B	12.4 B	NA
7440-09-7	Potassium	NS	ug/L	8010	25100	28600	NA	29300	41700	NA
7782-49-2	Selenium	10	ug/L	ND	ND	ND	NA	ND	ND	NA
7440-22-4	Silver	50	ug/L	0.92 B	ND	ND	NA	ND	ND	NA
7440-23-5	Sodium	20000	ug/L	47700	98000	108000	NA	97600	102000	NA
7440-28-0	Thallium	4 (G)	ug/L	3.9 B	ND	ND	NA	ND	ND	NA
7440-62-2	Vanadium	NS	ug/L	8.5 B	9.9 B	9.6 B	NA	8.6 B	8.9 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	37.7	24.2	34.9	NA	55.8	18.8 B	NA
57-12-5	Cyanide	200	ug/L	19.5	41.6	12.5	NA	30	36	NA

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	E / E	MW-6 162137 COLUMBIA MW1 WATER 8/12/97	MW-6 G5189 OBG 5116 Water 11/20/97	MW-6 H1023 OB 6857 Water 2/20/98	MW-6 H7533 OB 7830 Water 5/29/98	MW-6 J8491 OB 9596 Water 10/23/98	MW-6 M0298 OB 1516 Water 4/21/99
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L		ND	ND	ND	ND	7 J B	ND
71-43-2	Benzene	1	ug/L		ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	NS	ug/L		ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L		ND	ND	ND	ND	ND	4 J
67-66-3	Chloroform	7	ug/L		ND	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L		ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L		ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L		ND	ND	ND	ND	ND	1 JB
100-42-5	Styrene	5	ug/L		ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L		ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L		ND	ND	ND	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L		ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L		1 JB	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L		ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	J	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	J	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	J	ND	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L		ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L	J	ND	ND	ND	ND	ND	ND
	Total PAHs			J	ND	ND	ND	ND	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L		ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L		ND	ND	ND	ND	0.00066 JP	ND
50-29-3	4,4'-DDT	0.2	ug/L		ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L		ND	ND	ND	ND	0.0021 J	ND
959-98-8	Endosulfan I	NS	ug/L		ND	ND	ND	ND	ND	0.0014 JP
33213-65-	Endosulfan II	NS	ug/L		ND	ND	ND	ND	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L		ND	ND	ND	ND	0.0023 JP	ND
72-20-8	Endrin	0 ND	ug/L		ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L		ND	ND	ND	ND	ND	ND
53494-70-	Endrin ketone	5	ug/L		ND	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L		ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L		ND	ND	ND	0.00052 BJP	ND	0.0027 JP
72-43-5	Methoxychlor	35	ug/L		ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L		ND	ND	ND	0.00061 BJP	ND	ND
5103-71-9	alpha-Chlordane	NS	ug/L		ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L		ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L		ND	ND	0.0032 JP	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L		ND	ND	ND	0.0027 BJP	0.0021 JP	0.0083 JP
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L		35.2 B	51.5 B	84.4 B	35.5 B	56.3 B	53.4 B
7440-36-0	Antimony	3 (G)	ug/L		ND	2.7 B	ND	ND	1.9 B	ND
7440-38-2	Arsenic	25	ug/L		8 B	ND	ND	ND	ND	ND
7440-39-3	Barium	1000	ug/L		109 B	157 B	134 B	126 B	131 B	137 BE
7440-41-7	Beryllium	3 (G)	ug/L		0.95 B	ND	0.07 B	ND	ND	ND
7440-43-9	Cadmium	5	ug/L		3 B	ND	ND	ND	0.53 B	ND
7440-70-2	Calcium	NS	ug/L		123000	168000	165000	166000	161000	159000
7440-47-3	Chromium	50	ug/L		ND	2.9 B	2.8 B	ND	4.9 B	3 B
7440-48-4	Cobalt	NS	ug/L		ND	ND	ND	ND	ND	ND
7440-50-8	Copper	200	ug/L		ND	0.97 B	1.1 B	ND	1.3 B	ND
7439-89-6	Iron	500 *	ug/L		14600	20700	22400	21600	18100	17500
7439-92-1	Lead	25	ug/L		ND	ND	ND	ND	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L		24900	25600	25700	24400	19500	16400
7439-96-5	Manganese	300 *	ug/L		1010	1420	1590	1610	1150	1220
7439-97-6	Mercury	2	ug/L		ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L		ND	0.71 B	ND	ND	ND	ND
7440-09-7	Potassium	NS	ug/L		12300	22900	23100	25600	36900	54100
7782-49-2	Selenium	10	ug/L		ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	ug/L		1.5 B	0.64 B	0.75 B	ND	ND	ND
7440-23-5	Sodium	20000	ug/L		28700	35900	36300	33600	32800	36500
7440-28-0	Thallium	4 (G)	ug/L		ND	6 B	6.2 B	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L		ND	1.1 B	1.3 B	1.4 B	ND	1.4 B
7440-66-6	Zinc	2000 (G)	ug/L		48.8	4.8 B	11.7 B	1.9 B	7.4 B	7.5 B
57-12-5	Cyanide	200	ug/L		5.5	20.7	ND	ND	ND	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	MW-6 RE / M0298RE / OB / 1516 / Water / 4/21/99	MW-7 / 162138 / COLUMBIA / MW1 / WATER / 8/12/97	MW-7 / G5190 / OBG / 5116 / Water / 11/20/97	MW-7 / H1024 / OB / 6857 / Water / 2/20/98	MW-7 / H7534 / OB / 7830 / Water / 5/29/98	MW-7 / J8492 / OB / 9596 / Water / 10/23/98	MW- / M029 / OB / 151 / Wat / 4/21/
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L	NA	ND	ND	ND	ND	8 J B	ND
71-43-2	Benzene	1	ug/L	NA	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	NS	ug/L	NA	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L	NA	ND	ND	ND	ND	ND	11
67-66-3	Chloroform	7	ug/L	NA	ND	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L	NA	ND	ND	ND	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L	NA	ND	ND	ND	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L	NA	ND	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	NA	ND	ND	ND	ND	1 J	ND
100-42-5	Styrene	5	ug/L	NA	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L	NA	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L	NA	ND	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L	NA	ND	ND	ND	ND	1 J	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L	NA	ND	ND	ND	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	1 JB	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	3 JB	ND	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	ND	ND	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	2 JB	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	2 JB	ND	ND	ND	ND	ND
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L	ND	10 J	8 J	3 J	1 J	ND	ND
	Total PAHs			ND	10 J	8 J	3 J	1 J	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L	NA	ND	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	NA	ND	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	NA	ND	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L	NA	ND	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	NA	ND	ND	ND	ND	ND	0.0012
33213-65-	Endosulfan II	NS	ug/L	NA	ND	ND	ND	0.00072 BJP	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	NA	ND	ND	0.0033 JP	ND	ND	ND
72-20-8	Endrin	0 ND	ug/L	NA	ND	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	NA	ND	ND	ND	ND	ND	ND
53494-70-	Endrin ketone	5	ug/L	NA	ND	ND	ND	ND	0.0013 JP	ND
76-44-8	Heptachlor	ND	ug/L	NA	ND	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	NA	ND	ND	ND	ND	ND	0.0048
72-43-5	Methoxychlor	35	ug/L	NA	ND	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	NA	ND	ND	ND	0.00044 BJP	ND	0.0061
5103-71-9	alpha-Chlordane	NS	ug/L	NA	ND	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	NA	ND	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L	NA	ND	ND	0.0055 J	0.00091 JP	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	NA	ND	ND	ND	0.0042 BJP	0.0037 JP	0.008
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L	NA	122 B	24900	1540	398	189 B	316
7440-36-0	Antimony	3 (G)	ug/L	NA	ND	8.6 B	ND	ND	ND	ND
7440-38-2	Arsenic	25	ug/L	NA	24.2	52.2	ND	ND	ND	ND
7440-39-3	Barium	1000	ug/L	NA	246	637	543	612	616	575
7440-41-7	Beryllium	3 (G)	ug/L	NA	1.2 B	1.8 B	0.13 B	ND	ND	ND
7440-43-9	Cadmium	5	ug/L	NA	4 B	1.1 B	ND	ND	ND	ND
7440-70-2	Calcium	NS	ug/L	NA	60800	214000	104000	106000	103000	110000
7440-47-3	Chromium	50	ug/L	NA	ND	77.2	7.4 B	ND	6.3 B	8.5
7440-48-4	Cobalt	NS	ug/L	NA	ND	17.6 B	ND	ND	ND	ND
7440-50-8	Copper	200	ug/L	NA	ND	56	3.2 B	1.3 B	2.2 B	2.7
7439-89-6	Iron	500 *	ug/L	NA	17900	75100	13100	11200	11200	12300
7439-92-1	Lead	25	ug/L	NA	ND	53.2	ND	ND	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L	NA	7880	41900	21100	20800	21400	22000
7439-96-5	Manganese	300 *	ug/L	NA	226	1790	177	126	121	149
7439-97-6	Mercury	2	ug/L	NA	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L	NA	ND	54.8	2.7 B	2 B	1.4 B	3.5
7440-09-7	Potassium	NS	ug/L	NA	8780	6220	2170 B	2310 B	1200 B	2170
7782-49-2	Selenium	10	ug/L	NA	ND	5	ND	ND	ND	ND
7440-22-4	Silver	50	ug/L	NA	1.4 B	ND	ND	ND	ND	ND
7440-23-5	Sodium	20000	ug/L	NA	22800	26100	22300	20900	22100	23700
7440-28-0	Thallium	4 (G)	ug/L	NA	ND	6.9 B	3.6 B	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L	NA	ND	42.5 B	3.4 B	1.8 B	ND	1.4
7440-66-6	Zinc	2000 (G)	ug/L	NA	62.7	307	15.1 B	13.4 B	23.2	18.2
57-12-5	Cyanide	200	ug/L	NA	7.4	31	13	ND	ND	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:		MW-7 RE / M0299RE / OB / 1516 / Water / 4/21/99	MWDUPE / 162141 / COLUMBIA / MW1 / WATER / 8/12/97	Blind Dupe / G5116 / OBG / 5116 / Water / 11/20/97	blind dup / H7399 / OB / 7810 / Water / 5/28/98	blind dup / J8489 / OB / 9595 / Water / 10/22/98	blind dup / J8489 / OB / 9595 / Water / 10/22/98
	VOLATILES									
67-64-1	Acetone	50 (G)	ug/L		NA	ND	3 J	ND	9 J B	9 J B
71-43-2	Benzene	1	ug/L		NA	ND	ND	ND	ND	ND
78-93-3	2-Butanone	NS	ug/L		NA	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L		NA	ND	ND	ND	ND	ND
67-66-3	Chloroform	7	ug/L		NA	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L		NA	ND	2 J	ND	ND	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L		NA	ND	2 J	ND	ND	ND
100-41-4	Ethylbenzene	5	ug/L		NA	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L		NA	ND	ND	ND	ND	ND
100-42-5	Styrene	5	ug/L		NA	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L		NA	ND	1 J	ND	ND	ND
108-88-3	Toluene	5	ug/L		NA	ND	1 J	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L		NA	ND	3 J	ND	ND	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L		NA	ND	2 J	ND	ND	ND
	SEMIVOLATILES									
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L		ND	1 JB	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L		ND	2 JB	ND	ND	ND	ND
84-66-2	Diethyl phthalate	50 (G)	ug/L		ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L		ND	ND	44	ND	ND	ND
91-57-6	2-Methylnaphthalene	NS	ug/L		ND	ND	1 J	ND	ND	ND
95-48-7	2-Methylphenol	1	ug/L		ND	ND	19	ND	ND	ND
106-44-5	4-Methylphenol	1	ug/L		ND	ND	46	ND	ND	ND
108-95-2	Phenol	1	ug/L		ND	ND	6 J	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L		ND	2 JB	ND	ND	ND	ND
	SEMIVOLATILES									
91-20-3	Naphthalene	10 (G)	ug/L		ND	12	3 J	ND	ND	ND
	Total PAHs				ND	12	3 J	ND	ND	ND
	PESTICIDES									
309-00-2	Aldrin	ND	ug/L		NA	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L		NA	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L		NA	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L		NA	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	JP	NA	ND	ND	ND	0.0028 JP	0.0028 JP
33213-65-	Endosulfan II	NS	ug/L		NA	ND	ND	ND	0.00093 JP	0.00093 JP
1031-07-8	Endosulfan sulfate	NS	ug/L		NA	ND	ND	ND	0.00086 JP	0.00086 JP
72-20-8	Endrin	0 ND	ug/L		NA	ND	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L		NA	ND	ND	ND	0.0015 JP	0.0015 JP
53494-70-	Endrin ketone	5	ug/L		NA	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L		NA	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	J	NA	ND	ND	ND	0.0004 JP	0.0004 JP
72-43-5	Methoxychlor	35	ug/L		NA	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	BJ	NA	ND	ND	0.0017 JP	ND	ND
5103-71-9	alpha-Chlordane	NS	ug/L		NA	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L		NA	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L		NA	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	JP	NA	ND	ND	0.001 JP	0.0049 JP	0.0049 JP
	INORGANICS									
7429-90-5	Aluminum	NS	ug/L		NA	153 B	580	453	602	602
7440-36-0	Antimony	3 (G)	ug/L		NA	ND	3.5 B	ND	1.5 B	1.5 B
7440-38-2	Arsenic	25	ug/L		NA	25.3	8.1 B	10.3	6.9 B	6.9 B
7440-39-3	Barium	1000	ug/L	E	NA	248	50.9 B	210	182 B	182 B
7440-41-7	Beryllium	3 (G)	ug/L		NA	1.2 B	ND	ND	0.12 B	0.12 B
7440-43-9	Cadmium	5	ug/L		NA	4.2 B	ND	ND	0.73 B	0.73 B
7440-70-2	Calcium	NS	ug/L		NA	60300	125000	140000	139000	139000
7440-47-3	Chromium	50	ug/L	B	NA	1.6 B	ND	5.5 B	12.6	12.6
7440-48-4	Cobalt	NS	ug/L		NA	ND	ND	ND	ND	ND
7440-50-8	Copper	200	ug/L	B	NA	ND	2.8 B	1.9 B	3.2 B	3.2 B
7439-89-6	Iron	500 *	ug/L		NA	18700	88.1 B	19100	21200	21200
7439-92-1	Lead	25	ug/L		NA	ND	ND	ND	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L		NA	7780	407 B	38900	39000	39000
7439-96-5	Manganese	300 *	ug/L		NA	229	1.6 B	223	228	228
7439-97-6	Mercury	2	ug/L		NA	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L	B	NA	ND	1.1 B	2.7 B	2.9 B	2.9 B
7440-09-7	Potassium	NS	ug/L	B	NA	8920	49900	1040 B	884 B	884 B
7782-49-2	Selenium	10	ug/L		NA	ND	7.1	ND	3 B	3 B
7440-22-4	Silver	50	ug/L		NA	2.6 B	ND	ND	ND	ND
7440-23-5	Sodium	20000	ug/L		NA	23100	50500	64300	75300	75300
7440-28-0	Thallium	4 (G)	ug/L		NA	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L	B	NA	ND	19.6 B	2.7 B	2.3 B	2.3 B
7440-66-6	Zinc	2000 (G)	ug/L	B	NA	58.9	ND	18.5 B	29.4	29.4
57-12-5	Cyanide	200	ug/L		NA	7	47.2	ND	ND	ND

APPENDIX B-1

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	blind dup RE / M0196RE / OB / 1489 / Water / 4/20/99
	VOLATILES			
67-64-1	Acetone	50 (G)	ug/L	NA
71-43-2	Benzene	1	ug/L	NA
78-93-3	2-Butanone	NS	ug/L	NA
75-15-0	Carbon disulfide	NS	ug/L	NA
67-66-3	Chloroform	7	ug/L	NA
75-35-3	1,1-Dichloroethane	5	ug/L	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	NA
100-41-4	Ethylbenzene	5	ug/L	NA
75-09-2	Methylene chloride	5	ug/L	NA
100-42-5	Styrene	5	ug/L	NA
127-18-4	Tetrachloroethene	5	ug/L	NA
108-88-3	Toluene	5	ug/L	NA
1330-20-7	Xylene (total)	5	ug/L	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	NA
	SEMIVOLATILES			
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND
84-66-2	Diethyl phthalate	50 (G)	ug/L	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND
91-57-6	2-Methylnaphthalene	NS	ug/L	ND
95-48-7	2-Methylphenol	1	ug/L	ND
106-44-5	4-Methylphenol	1	ug/L	ND
108-95-2	Phenol	1	ug/L	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND
	SEMIVOLATILES			
91-20-3	Naphthalene	10 (G)	ug/L	ND
	Total PAHs			ND
	PESTICIDES			
309-00-2	Aldrin	ND	ug/L	NA
72-55-9	4,4'-DDE	0.2	ug/L	NA
50-29-3	4,4'-DDT	0.2	ug/L	NA
60-57-1	Dieldrin	0.004	ug/L	NA
959-98-8	Endosulfan I	NS	ug/L	NA
33213-65-	Endosulfan II	NS	ug/L	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	NA
72-20-8	Endrin	0 ND	ug/L	NA
7421-93-4	Endrin aldehyde	5	ug/L	NA
53494-70-	Endrin ketone	5	ug/L	NA
76-44-8	Heptachlor	ND	ug/L	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	NA
72-43-5	Methoxychlor	35	ug/L	NA
319-84-6	alpha-BHC	0.01	ug/L	NA
5103-71-9	alpha-Chlordane	NS	ug/L	NA
319-86-8	delta-BHC	0.04	ug/L	NA
58-89-9	gamma-BHC	ND	ug/L	NA
5103-74-2	gamma-Chlordane	NS	ug/L	NA
	INORGANICS			
7429-90-5	Aluminum	NS	ug/L	NA
7440-36-0	Antimony	3 (G)	ug/L	NA
7440-38-2	Arsenic	25	ug/L	NA
7440-39-3	Barium	1000	ug/L	NA
7440-41-7	Beryllium	3 (G)	ug/L	NA
7440-43-9	Cadmium	5	ug/L	NA
7440-70-2	Calcium	NS	ug/L	NA
7440-47-3	Chromium	50	ug/L	NA
7440-48-4	Cobalt	NS	ug/L	NA
7440-50-8	Copper	200	ug/L	NA
7439-89-6	Iron	500 *	ug/L	NA
7439-92-1	Lead	25	ug/L	NA
7439-95-4	Magnesium	35000 (G)	ug/L	NA
7439-96-5	Manganese	300 *	ug/L	NA
7439-97-6	Mercury	2	ug/L	NA
7440-02-0	Nickel	100	ug/L	NA
7440-09-7	Potassium	NS	ug/L	NA
7782-49-2	Selenium	10	ug/L	NA
7440-22-4	Silver	50	ug/L	NA
7440-23-5	Sodium	20000	ug/L	NA
7440-28-0	Thallium	4 (G)	ug/L	NA
7440-62-2	Vanadium	NS	ug/L	NA
7440-66-6	Zinc	2000 (G)	ug/L	NA
57-12-5	Cyanide	200	ug/L	NA

APPENDIX B-2
SUMP CHEMICAL ANALYSIS RESULTS
(1997 TO 1999)

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 162439 COLUMBIA MW1 WATER 8/13/97	S-1DL 162439DL COLUMBIA MW1 WATER 8/13/97	S-1 G5093 OBG 5116 Water 11/20/97	S-1DL G5093DL OBG 5116 Water 11/20/97	S-1RE G5093RE OBG 5116 Water 11/20/97
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	7 J	NA	7 J	NA	NA
71-43-2	Benzene	1	ug/L	1 J	NA	ND	NA	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	NA	ND	NA	NA
75-35-3	1,1-Dichloroethane	5	ug/L	3 J	NA	2 J	NA	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	NA	ND	NA	NA
100-41-4	Ethylbenzene	5	ug/L	ND	NA	ND	NA	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L	9 J	NA	3 J	NA	NA
75-09-2	Methylene chloride	5	ug/L	ND	NA	ND	NA	NA
127-18-4	Tetrachloroethene	5	ug/L	ND	NA	ND	NA	NA
108-88-3	Toluene	5	ug/L	2 J	NA	ND	NA	NA
79-01-6	Trichloroethene	5	ug/L	ND	NA	ND	NA	NA
75-01-4	Vinyl chloride	2	ug/L	ND	NA	ND	NA	NA
1330-20-7	Xylene (total)	5	ug/L	4 J	NA	2 J	NA	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	NA	ND	NA	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	1 JB	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	7 J	6 JD	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	1 JB	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	2 J	ND	5 J	ND	5 J
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	1 J	ND	2 J	ND	2 J
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	1 J	ND	1 J
131-11-3	Dimethyl phthalate	50 (G)	ug/L	2 J	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	240 E	220 D	260 E	400 D	240 E
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	2 J	ND	2 J
95-48-7	2-Methylphenol	1	ug/L	31	35 JD	51	53 JD	46
106-44-5	4-Methylphenol	1	ug/L	82	87 D	86 E	110 D	83 E
108-95-2	Phenol	1	ug/L	19 B	22 JBD	68	82 JD	61
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	12	15 JD	11
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	3 JB	ND	21	24 JD	22
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	2 J	ND	11	15 JD	11
208-96-8	Acenaphthylene	NS	ug/L	ND	ND	ND	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	2 J	ND	14	14 JD	15
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	17	22 JD	19
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	12	13 JD	11
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	16	20 JD	17
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	6 J	ND	7 J
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	6 J	ND	4 J
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	19	26 JD	22
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	82 E	93 JD	100 E
86-73-7	Fluorene	50 (G)	ug/L	2 J	ND	8 J	15 JD	9 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	6 J	ND	6 J
91-20-3	Naphthalene	10 (G)	ug/L	3 J	ND	3 J	ND	3 J
85-01-8	Phenanthrene	50 (G)	ug/L	ND	ND	24	37 JD	27
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	45	64 JD	49
	Total PAHs			9	ND	269	319	300

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 162439 COLUMBIA MW1 WATER 8/13/97	S-1DL 162439DL COLUMBIA MW1 WATER 8/13/97	S-1 G5093 OBG 5116 Water 11/20/97	S-1DL G5093DL OBG 5116 Water 11/20/97	S-1RE G5093RE OBG 5116 Water 11/20/97
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	NA	ND	ND	NA
72-54-8	4,4'-DDD	0.3	ug/L	ND	NA	0.026 JP	ND	NA
72-55-9	4,4'-DDE	0.2	ug/L	ND	NA	ND	ND	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	NA	ND	ND	NA
60-57-1	Dieldrin	0.004	ug/L	ND	NA	ND	ND	NA
959-98-8	Endosulfan I	NS	ug/L	ND	NA	ND	ND	NA
33213-65-9	Endosulfan II	NS	ug/L	ND	NA	1.4	ND	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	NA	ND	ND	NA
72-20-8	Endrin	0 ND	ug/L	ND	NA	ND	ND	NA
7421-93-4	Endrin aldehyde	5	ug/L	ND	NA	ND	ND	NA
53494-70-5	Endrin ketone	5	ug/L	ND	NA	ND	ND	NA
76-44-8	Heptachlor	ND	ug/L	ND	NA	ND	ND	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	NA	ND	ND	NA
72-43-5	Methoxychlor	35	ug/L	ND	NA	0.079 JP	ND	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	NA	ND	ND	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	NA	ND	ND	NA
319-85-7	beta-BHC	ND	ug/L	ND	NA	ND	ND	NA
319-86-8	delta-BHC	0.04	ug/L	ND	NA	ND	ND	NA
58-89-9	gamma-BHC	ND	ug/L	ND	NA	ND	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L	ND	NA	ND	ND	NA
53469-21-9	Aroclor-1242		ug/L	ND	NA	ND	ND	NA
12672-29-6	Aroclor-1248		ug/L	ND	NA	7.4	10 JD	NA
11096-82-5	Aroclor-1260		ug/L	ND	NA	43	66 D	NA
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	660	NA	142 B	NA	NA
7440-36-0	Antimony	3 (G)	ug/L	ND	NA	ND	NA	NA
7440-38-2	Arsenic	25	ug/L	14.7	NA	4.7 B	NA	NA
7440-39-3	Barium	1000	ug/L	234	NA	187 B	NA	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.25 B	NA	ND	NA	NA
7440-43-9	Cadmium	5	ug/L	0.9 B	NA	ND	NA	NA
7440-70-2	Calcium	NS	ug/L	48600	NA	46300	NA	NA
7440-47-3	Chromium	50	ug/L	2.2 B	NA	1.2 B	NA	NA
7440-48-4	Cobalt	NS	ug/L	ND	NA	ND	NA	NA
7440-50-8	Copper	200	ug/L	ND	NA	7.4 B	NA	NA
57-12-5	Cyanide	200	ug/L	0.8 B	NA	14.9	NA	NA
7439-89-6	Iron	500 *	ug/L	3260	NA	1500	NA	NA
7439-92-1	Lead	25	ug/L	6.7	NA	2.6 B	NA	NA
7439-95-4	Magnesium	35000 (G)	ug/L	11100	NA	9410	NA	NA
7439-96-5	Manganese	300 *	ug/L	1080	NA	1210	NA	NA
7439-97-6	Mercury	2	ug/L	ND	NA	ND	NA	NA
7440-02-0	Nickel	100	ug/L	12.1 B	NA	7.7 B	NA	NA
7440-09-7	Potassium	NS	ug/L	25100	NA	16700	NA	NA
7782-49-2	Selenium	10	ug/L	ND	NA	ND	NA	NA
7440-22-4	Silver	50	ug/L	3.2 B	NA	ND	NA	NA
7440-23-5	Sodium	20000	ug/L	138000	NA	116000	NA	NA
7440-28-0	Thallium	4 (G)	ug/L	ND	NA	ND	NA	NA
7440-62-2	Vanadium	NS	ug/L	ND	NA	1.8 B	NA	NA
7440-66-6	Zinc	2000 (G)	ug/L	97.7	NA	15.8 B	NA	NA

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 H0918 OB 6847 Water 2/18/98	S-1DL H0918DL OB 6847 Water 2/18/98	S-1RE H0918 OB 6847 Water 2/18/98	S-1 H7400 OB 7810 Water 5/28/98	S-1RE H7400RE OB 7810 Water 5/28/98
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	4 J	NA	NA	9 J	NA
71-43-2	Benzene	1	ug/L	ND	NA	NA	ND	NA
75-15-0	Carbon disulfide	NS	ug/L	ND	NA	NA	ND	NA
75-35-3	1,1-Dichloroethane	5	ug/L	2 J	NA	NA	ND	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	NA	NA	ND	NA
100-41-4	Ethylbenzene	5	ug/L	ND	NA	NA	ND	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L	2 J	NA	NA	ND	NA
75-09-2	Methylene chloride	5	ug/L	ND	NA	NA	ND	NA
127-18-4	Tetrachloroethene	5	ug/L	ND	NA	NA	ND	NA
108-88-3	Toluene	5	ug/L	ND	NA	NA	ND	NA
79-01-6	Trichloroethene	5	ug/L	ND	NA	NA	ND	NA
75-01-4	Vinyl chloride	2	ug/L	ND	NA	NA	ND	NA
1330-20-7	Xylene (total)	5	ug/L	2 J	NA	NA	ND	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	NA	NA	ND	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	ND	ND	ND	2 J	2 J
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	31	30 JD	32	2 J	2 J
541-73-1	1,3-Dichlorobenzene	3	ug/L	3 J	ND	3 J	1 J	1 J
106-46-7	1,4-Dichlorobenzene	3	ug/L	14	15 JD	14	6 J	6 J
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	290 E	290 D	300 E	78	78
91-57-6	2-Methylnaphthalene	NS	ug/L	5 J	ND	6 J	1 J	1 J
95-48-7	2-Methylphenol	1	ug/L	33	34 JD	31	6 J	6 J
106-44-5	4-Methylphenol	1	ug/L	37	39 JD	35	37	36
108-95-2	Phenol	1	ug/L	40	44 JD	36	17	16
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	52	48 JD	54	4 J	4 J
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	120 E	120 D	130 E	4 J	4 J
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	38	43 JD	40	3 J	3 J
208-96-8	Acenaphthylene	NS	ug/L	ND	ND	ND	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	39	38 JD	27	2 J	2 J
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	94 E	96 JD	98 E	2 J	2 J
50-32-8	Benzo[a]pyrene	0 ND	ug/L	57	55 JD	57	2 J	1 J
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	75	76 JD	72	2 J	2 J
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	34	28 JD	35	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	29	31 JD	30	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	90 E	110 D	93 E	2 J	2 J
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	10	100	11	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	330 E	300 D	230 E	6 J	7 J
86-73-7	Fluorene	50 (G)	ug/L	30	53 JD	31	2 J	2 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	30	27 JD	30	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	5 J	ND	4 J	2 J	2 J
85-01-8	Phenanthrene	50 (G)	ug/L	140 E	140 D	99 E	4 J	4 J
129-00-0	Pyrene	50 (G)	ug/L	290 E	330 D	300 E	11	11
	Total PAHs			1291	1427	1157	38	38

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 H0918 OB 6847 Water 2/18/98	S-1DL H0918DL OB 6847 Water 2/18/98	S-1RE H0918 OB 6847 Water 2/18/98	S-1 H7400 OB 7810 Water 5/28/98	S-1RE H7400RE OB 7810 Water 5/28/98
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	ND	NA	0.008 JP	NA
72-54-8	4,4'-DDD	0.3	ug/L	0.26 JP	0.38 JPD	NA	0.058 JP	NA
72-55-9	4,4'-DDE	0.2	ug/L	1.4 P	2.3 JPD	NA	0.016 JP	NA
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	NA	ND	NA
60-57-1	Dieldrin	0.004	ug/L	ND	ND	NA	ND	NA
959-98-8	Endosulfan I	NS	ug/L	ND	ND	NA	ND	NA
33213-65-9	Endosulfan II	NS	ug/L	17 E	29 D	NA	0.081 JP	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	ND	NA	ND	NA
72-20-8	Endrin	0 ND	ug/L	ND	ND	NA	0.023 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L	1.8 P	2.3 JPD	NA	ND	NA
53494-70-5	Endrin ketone	5	ug/L	ND	1.3 JPD	NA	ND	NA
76-44-8	Heptachlor	ND	ug/L	0.39 P	0.58 JPD	NA	ND	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	2 JPD	NA	0.0057 JP	NA
72-43-5	Methoxychlor	35	ug/L	ND	ND	NA	0.097 JP	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	NA	0.011 JP	NA
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	NA	ND	NA
319-85-7	beta-BHC	ND	ug/L	ND	ND	NA	ND	NA
319-86-8	delta-BHC	0.04	ug/L	0.021 JP	ND	NA	ND	NA
58-89-9	gamma-BHC	ND	ug/L	ND	ND	NA	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	NA	0.02 JP	NA
53469-21-9	Aroclor-1242		ug/L	ND	ND	NA	0.88 JP	NA
12672-29-6	Aroclor-1248		ug/L	100 P	160 PD	NA	ND	NA
11096-82-5	Aroclor-1260		ug/L	330 E	820 D	NA	2.4 P	NA
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	1090	NA	NA	30.2 B	NA
7440-36-0	Antimony	3 (G)	ug/L	ND	NA	NA	ND	NA
7440-38-2	Arsenic	25	ug/L	5.8 B	NA	NA	10.2	NA
7440-39-3	Barium	1000	ug/L	196 B	NA	NA	151 B	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.1 B	NA	NA	ND	NA
7440-43-9	Cadmium	5	ug/L	ND	NA	NA	ND	NA
7440-70-2	Calcium	NS	ug/L	50900	NA	NA	45700	NA
7440-47-3	Chromium	50	ug/L	5.4 B	NA	NA	ND	NA
7440-48-4	Cobalt	NS	ug/L	ND	NA	NA	ND	NA
7440-50-8	Copper	200	ug/L	5.3 B	NA	NA	4 B	NA
57-12-5	Cyanide	200	ug/L	ND	NA	NA	ND	NA
7439-89-6	Iron	500 *	ug/L	4440	NA	NA	3060	NA
7439-92-1	Lead	25	ug/L	8.2	NA	NA	ND	NA
7439-95-4	Magnesium	35000 (G)	ug/L	10100	NA	NA	7730	NA
7439-96-5	Manganese	300 *	ug/L	1330	NA	NA	1080	NA
7439-97-6	Mercury	2	ug/L	ND	NA	NA	ND	NA
7440-02-0	Nickel	100	ug/L	17 B	NA	NA	8.1 B	NA
7440-09-7	Potassium	NS	ug/L	14500	NA	NA	20300	NA
7782-49-2	Selenium	10	ug/L	ND	NA	NA	ND	NA
7440-22-4	Silver	50	ug/L	ND	NA	NA	ND	NA
7440-23-5	Sodium	20000	ug/L	110000	NA	NA	93300	NA
7440-28-0	Thallium	4 (G)	ug/L	4.1 B	NA	NA	ND	NA
7440-62-2	Vanadium	NS	ug/L	3.6 B	NA	NA	1.2 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	157	NA	NA	23.7	NA

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 J8341 OB 9571 Water 10/21/98	S-1 DL J8341D OB 9571 Water 10/21/98	S-1 M0193 OB 1489 Water 4/20/99	S-1 DL M0193DL OB 1489 Water 4/20/99	S-2 162440 COLUMBIA MW1 WATER 8/13/97
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	10 J	NA	13	NA	ND
71-43-2	Benzene	1	ug/L	ND	NA	ND	NA	1 J
75-15-0	Carbon disulfide	NS	ug/L	ND	NA	7 J	NA	ND
75-35-3	1,1-Dichloroethane	5	ug/L	ND	NA	ND	NA	1 J
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	NA	ND	NA	61
100-41-4	Ethylbenzene	5	ug/L	ND	NA	ND	NA	ND
108-10-1	4-Methyl-2-pentanone	NS	ug/L	2 J	NA	ND	NA	ND
75-09-2	Methylene chloride	5	ug/L	2 J	NA	ND	NA	ND
127-18-4	Tetrachloroethene	5	ug/L	ND	NA	ND	NA	ND
108-88-3	Toluene	5	ug/L	ND	NA	ND	NA	ND
79-01-6	Trichloroethene	5	ug/L	ND	NA	ND	NA	4 J
75-01-4	Vinyl chloride	2	ug/L	ND	NA	ND	NA	18
1330-20-7	Xylene (total)	5	ug/L	ND	NA	ND	NA	ND
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	NA	ND	NA	ND
156-60-5	trans-1,2-Dichloroethene	5	ug/L	ND	NA	ND	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	1 JB
86-74-8	Carbazole	NS	ug/L	ND	ND	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	2 JB
132-64-9	Dibenzofuran	NS	ug/L	250 D	260 JD	73 D	82 JD	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L	16 JD	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	77 JD	74 JD	13 JD	ND	ND
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	84 JD	65 JD	33 JD	28 JD	44
91-57-6	2-Methylnaphthalene	NS	ug/L	130 D	130 JD	17 JD	ND	1 J
95-48-7	2-Methylphenol	1	ug/L	ND	ND	ND	ND	5 J
106-44-5	4-Methylphenol	1	ug/L	ND	ND	ND	ND	2 J
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	3 JB
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	31 JD	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	530 D	680 D	190 D	170 JD	1 JB
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	370 D	380 JD	180 D	180 JD	1 J
208-96-8	Acenaphthylene	NS	ug/L	ND	ND	ND	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	300 D	270 JD	110 D	110 JD	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	420 D	390 JD	310 D	310 D	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	230 D	250 JD	150 D	150 JD	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	350 D	330 JD	210 D	250 JD	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	130 D	220 JD	220 D	190 JD	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	160 D	150 JD	77 D	98 JD	ND
218-01-9	Chrysene	0.002 (G)	ug/L	430 D	380 JD	380 D	390 D	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	40 JD	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	1800 ED	1300 D	710 ED	840 D	1 J
86-73-7	Fluorene	50 (G)	ug/L	390 D	430 JD	99 D	120 JD	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	120 D	200 JD	190 D	140 JD	ND
91-20-3	Naphthalene	10 (G)	ug/L	65 JD	62 JD	6 JD	ND	2 J
85-01-8	Phenanthrene	50 (G)	ug/L	1400 ED	1300 D	210 D	220 JD	2 J
129-00-0	Pyrene	50 (G)	ug/L	1200 ED	1400 D	1400 ED	2000 D	ND
	Total PAHs			7405	7062	4252	4998	6

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-1 J8341 OB 9571 Water 10/21/98	S-1 DL J8341D OB 9571 Water 10/21/98	S-1 M0193 OB 1489 Water 4/20/99	S-1 DL M0193DL OB 1489 Water 4/20/99	S-2 162440 COLUMBIA MW1 WATER 8/13/97
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	ug/L	0.033 JP	0.068 JPD	0.051 JP	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	0.51 P	0.8 JPD	1.3 P	2 JD	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	0.035 JPD	ND
60-57-1	Dieldrin	0.004	ug/L	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	ND	ND	0.14 JP	ND	ND
33213-65-9	Endosulfan II	NS	ug/L	3.1	4.6 J	2.1	2.8 JPD	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	0.086 BJP	0.12 BJP	ND	ND	ND
72-20-8	Endrin	0 ND	ug/L	ND	ND	ND	0.17 JPD	ND
7421-93-4	Endrin aldehyde	5	ug/L	0.045 JP	ND	0.3 JP	0.65 JPD	ND
53494-70-5	Endrin ketone	5	ug/L	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	ND	ND	ND	ND
72-43-5	Methoxychlor	35	ug/L	ND	ND	0.83 JP	1.3 JPD	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	ND	ND	ND
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND
319-85-7	beta-BHC	ND	ug/L	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	0.0048 JP	ND	ND
58-89-9	gamma-BHC	ND	ug/L	ND	ND	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	ND	ND	ND
53469-21-9	Aroclor-1242		ug/L	ND	ND	ND	ND	ND
12672-29-6	Aroclor-1248		ug/L	39 P	61 PD	74 P	110 PD	6.4
11096-82-5	Aroclor-1260		ug/L	89 E	150 D	72 P	110 PD	ND
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	5870	NA	2390	NA	10900
7440-36-0	Antimony	3 (G)	ug/L	4.9 B	NA	2.9 B	NA	3.7 BE
7440-38-2	Arsenic	25	ug/L	20.6	NA	10.4	NA	21.8
7440-39-3	Barium	1000	ug/L	463	NA	332 E	NA	211
7440-41-7	Beryllium	3 (G)	ug/L	0.34 B	NA	0.18 B	NA	3.5 B
7440-43-9	Cadmium	5	ug/L	1.8 B	NA	0.55 B	NA	6.8
7440-70-2	Calcium	NS	ug/L	233000	NA	152000	NA	59700
7440-47-3	Chromium	50	ug/L	16.3	NA	7.6 B	NA	69.9
7440-48-4	Cobalt	NS	ug/L	5.7 B	NA	2.2 B	NA	13.9 B
7440-50-8	Copper	200	ug/L	115	NA	79.1	NA	83.2
57-12-5	Cyanide	200	ug/L	ND	NA	ND	NA	26.2
7439-89-6	Iron	500 *	ug/L	21800	NA	7920	NA	47500
7439-92-1	Lead	25	ug/L	47.6	NA	19.4	NA	228
7439-95-4	Magnesium	35000 (G)	ug/L	16700	NA	12900	NA	13500
7439-96-5	Manganese	300 *	ug/L	3150	NA	2290	NA	1410
7439-97-6	Mercury	2	ug/L	ND	NA	ND	NA	0.3
7440-02-0	Nickel	100	ug/L	28.9 B	NA	18.2 B	NA	40.7
7440-09-7	Potassium	NS	ug/L	24400	NA	23700	NA	30500
7782-49-2	Selenium	10	ug/L	2.9 B	NA	ND	NA	ND
7440-22-4	Silver	50	ug/L	ND	NA	ND	NA	3.4 B
7440-23-5	Sodium	20000	ug/L	93000	NA	138000	NA	55000
7440-28-0	Thallium	4 (G)	ug/L	ND	NA	ND	NA	ND
7440-62-2	Vanadium	NS	ug/L	13.4 B	NA	7.4 B	NA	17 B
7440-66-6	Zinc	2000 (G)	ug/L	384	NA	138	NA	803

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 G5094 OBG 5116 Water 11/20/97	S-2 H0919 OB 6847 Water 2/19/98	S-2 DUP H0922 OB 6847 Water 2/19/98	S-2 H7397 OB 7810 Water 5/28/98	S-2 J8486 OB 9595 Water 10/22/98
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	ND	ND	4 J	ND	9 J B
71-43-2	Benzene	1	ug/L	ND	ND	1 J	ND	1 J
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L	2 J	2 J	2 J	ND	2 J
540-59-0	1,2-Dichloroethene (total)	5	ug/L	6 J	2 J	2 J	ND	2 J
100-41-4	Ethylbenzene	5	ug/L	ND	2 J	2 J	ND	1 J
108-10-1	4-Methyl-2-pentanone	NS	ug/L	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	ND	ND	ND	1 J	ND
127-18-4	Tetrachloroethene	5	ug/L	ND	1 J	1 J	ND	1 J
108-88-3	Toluene	5	ug/L	1 J	11	10	ND	3 J
79-01-6	Trichloroethene	5	ug/L	ND	ND	ND	ND	ND
75-01-4	Vinyl chloride	2	ug/L	ND	ND	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L	2 J	15	14	ND	9 J
156-59-2	cis-1,2-Dichloroethene	5	ug/L	6 J	ND	ND	ND	1 J
156-60-5	trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	ND
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	ND	ND	ND	ND	3 J
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	45	38	26	18	39
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	2 J	1 J	ND	3 J
95-48-7	2-Methylphenol	1	ug/L	15	13	8 J	5 J	9 J
106-44-5	4-Methylphenol	1	ug/L	29	37	18	15	15
108-95-2	Phenol	1	ug/L	3 J	10	4 J	2 J	1 J
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	ND	ND	ND	ND	2 J
208-96-8	Acenaphthylene	NS	ug/L	ND	ND	ND	ND	3 J
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	ug/L	ND	ND	ND	ND	1 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	1 J	5 J	3 J	3 J	46
85-01-8	Phenanthrene	50 (G)	ug/L	ND	ND	ND	ND	1 J
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	ND	ND
	Total PAHs			1	5	3	3	53

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 G5094 OBG 5116 Water 11/20/97	S-2 H0919 OB 6847 Water 2/19/98	S-2 DUP H0922 OB 6847 Water 2/19/98	S-2 H7397 OB 7810 Water 5/28/98	S-2 J8486 OB 9595 Water 10/22/98
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	0.0012 JP	ND	ND	ND
72-54-8	4,4'-DDD	0.3	ug/L	ND	ND	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	ND	ND	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L	ND	ND	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	ND	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	ug/L	ND	0.0065 J	0.0041 JP	0.0029 JP	0.0021 JP
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	0.0018 JP	0.0012 JP	ND	0.0046 BJP
72-20-8	Endrin	0 ND	ug/L	ND	ND	ND	0.011 JP	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	ND	ND	ND	0.0065 J
53494-70-5	Endrin ketone	5	ug/L	ND	ND	ND	ND	0.00068 J
76-44-8	Heptachlor	ND	ug/L	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	ND	ND	ND	0.00059 J
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	ND	0.0015 JP	ND
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND
319-85-7	beta-BHC	ND	ug/L	ND	ND	ND	0.019 J	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	ND	0.0027 JP
58-89-9	gamma-BHC	ND	ug/L	ND	0.0074 JP	0.0043 JP	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	0.0037 JP	ND	ND	0.0092 J	0.0014 JP
53469-21-9	Aroclor-1242		ug/L	ND	ND	ND	0.41 JP	0.48 JP
12672-29-6	Aroclor-1248		ug/L	ND	ND	ND	ND	ND
11096-82-5	Aroclor-1260		ug/L	ND	ND	ND	ND	ND
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	341	302	285	383	142 B
7440-36-0	Antimony	3 (G)	ug/L	2.6 B	3 B	2.8 B	3.6 B	7 B
7440-38-2	Arsenic	25	ug/L	6.2 B	ND	4.7 B	7.4 B	6.7 B
7440-39-3	Barium	1000	ug/L	63.4 B	37.3 B	37.6 B	43.2 B	76.9 B
7440-41-7	Beryllium	3 (G)	ug/L	ND	ND	ND	ND	ND
7440-43-9	Cadmium	5	ug/L	ND	ND	ND	ND	ND
7440-70-2	Calcium	NS	ug/L	117000	93700	92600	98600	171000
7440-47-3	Chromium	50	ug/L	ND	ND	ND	ND	ND
7440-48-4	Cobalt	NS	ug/L	ND	ND	ND	ND	ND
7440-50-8	Copper	200	ug/L	2 B	1.7 B	1.6 B	ND	2.1 B
57-12-5	Cyanide	200	ug/L	48.3	ND	11.8	12.9	80
7439-89-6	Iron	500 *	ug/L	61.4 B	170	156	99.1 B	47.9 B
7439-92-1	Lead	25	ug/L	ND	ND	ND	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L	676 B	4130 B	3830 B	671 B	18.9 B
7439-96-5	Manganese	300 *	ug/L	0.4 B	3.2 B	2 B	0.62 B	ND
7439-97-6	Mercury	2	ug/L	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L	2.5 B	ND	ND	1.4 B	1.4 B
7440-09-7	Potassium	NS	ug/L	43700	29900	30000	33900	36200
7782-49-2	Selenium	10	ug/L	8.3	ND	ND	ND	ND
7440-22-4	Silver	50	ug/L	0.65 B	ND	ND	ND	ND
7440-23-5	Sodium	20000	ug/L	47000	31000	31200	40200	33300
7440-28-0	Thallium	4 (G)	ug/L	ND	ND	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L	21.2 B	10.1 B	10.5 B	11.3 B	8.1 B
7440-66-6	Zinc	2000 (G)	ug/L	2.8 B	3.6 B	3.9 B	10.6 B	7.7 B

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 M0296 OB 1516 Water 4/21/99	S-2 RE M0296RE OB 1516 Water 4/21/99	S-3 162441 COLUMBIA MW1 WATER 8/13/97	S-3 G5120 OBG 5116 Water 11/20/97	S-3 H0920 OB 6847 Water 2/18/98
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	ND	NA	ND	ND	7 J
71-43-2	Benzene	1	ug/L	ND	NA	ND	ND	ND
75-15-0	Carbon disulfide	NS	ug/L	38	NA	ND	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L	2 J	NA	3 J	2 J	2 J
540-59-0	1,2-Dichloroethene (total)	5	ug/L	6 J	NA	1 J	2 J	2 J
100-41-4	Ethylbenzene	5	ug/L	ND	NA	ND	ND	4 J
108-10-1	4-Methyl-2-pentanone	NS	ug/L	ND	NA	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	ND	NA	ND	ND	ND
127-18-4	Tetrachloroethene	5	ug/L	ND	NA	1 J	1 J	2 J
108-88-3	Toluene	5	ug/L	ND	NA	2 J	1 J	17
79-01-6	Trichloroethene	5	ug/L	1 J	NA	ND	ND	1 J
75-01-4	Vinyl chloride	2	ug/L	ND	NA	ND	ND	ND
1330-20-7	Xylene (total)	5	ug/L	3 J	NA	2 J	3 J	25
156-59-2	cis-1,2-Dichloroethene	5	ug/L	6 J	NA	NA	2 J	ND
156-60-5	trans-1,2-Dichloroethene	5	ug/L	ND	NA	NA	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	ND	ND	ND	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	1 JB	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	ND	ND	ND	ND	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	6 J	5 J	33	43	54
91-57-6	2-Methylnaphthalene	NS	ug/L	ND	ND	ND	1 J	2 J
95-48-7	2-Methylphenol	1	ug/L	ND	ND	13	16	19
106-44-5	4-Methylphenol	1	ug/L	ND	ND	37	49	58
108-95-2	Phenol	1	ug/L	ND	ND	2 JB	6 J	18
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	1 J	1 J	ND	ND	ND
208-96-8	Acenaphthylene	NS	ug/L	1 J	1 J	ND	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	ug/L	1 J	1 J	ND	ND	ND
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	ND	ND	3 J	3 J	6 J
85-01-8	Phenanthrene	50 (G)	ug/L	ND	ND	ND	ND	ND
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	ND	ND
	Total PAHs			3	3	3	3	6

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-2 M0296 OB 1516 Water 4/21/99	S-2 RE M0296RE OB 1516 Water 4/21/99	S-3 162441 COLUMBIA MW1 WATER 8/13/97	S-3 G5120 OBG 5116 Water 11/20/97	S-3 H0920 OB 6847 Water 2/18/98
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	NA	ND	ND	ND
72-54-8	4,4'-DDD	0.3	ug/L	ND	NA	ND	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	0.0024 JP	NA	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	0.00079 BJP	NA	ND	ND	ND
60-57-1	Dieldrin	0.004	ug/L	ND	NA	ND	ND	ND
959-98-8	Endosulfan I	NS	ug/L	ND	NA	ND	ND	ND
33213-65-9	Endosulfan II	NS	ug/L	0.0018 JP	NA	ND	ND	0.0059 J
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0025 BJP	NA	ND	ND	0.0017 JP
72-20-8	Endrin	0 ND	ug/L	0.0029 JP	NA	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	0.0017 JP	NA	ND	ND	ND
53494-70-5	Endrin ketone	5	ug/L	0.00041 JP	NA	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L	ND	NA	ND	ND	0.0082 JP
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	NA	ND	ND	ND
72-43-5	Methoxychlor	35	ug/L	ND	NA	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	0.00081 BJP	NA	ND	ND	ND
5103-71-9	alpha-Chlordane	NS	ug/L	0.0016 JP	NA	ND	ND	ND
319-85-7	beta-BHC	ND	ug/L	ND	NA	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	ND	NA	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L	ND	NA	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	0.0018 JP	NA	ND	ND	ND
53469-21-9	Aroclor-1242		ug/L	0.47 JP	NA	ND	ND	ND
12672-29-6	Aroclor-1248		ug/L	ND	NA	ND	ND	ND
11096-82-5	Aroclor-1260		ug/L	ND	NA	ND	ND	ND
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	211	NA	14300	620	415
7440-36-0	Antimony	3 (G)	ug/L	4.7 B	NA	4.6 BE	10.7 B	2.8 B
7440-38-2	Arsenic	25	ug/L	3.8 B	NA	13	9.2 B	ND
7440-39-3	Barium	1000	ug/L	71.6 BE	NA	201	55.2 B	51.2 B
7440-41-7	Beryllium	3 (G)	ug/L	0.14 B	NA	1.9 B	ND	ND
7440-43-9	Cadmium	5	ug/L	ND	NA	4.9 B	ND	ND
7440-70-2	Calcium	NS	ug/L	156000	NA	120000	126000	136000
7440-47-3	Chromium	50	ug/L	ND	NA	24.8	ND	ND
7440-48-4	Cobalt	NS	ug/L	ND	NA	8.9 B	ND	ND
7440-50-8	Copper	200	ug/L	0.96 B	NA	28.5	1.4 B	1.4 B
57-12-5	Cyanide	200	ug/L	52.3	NA	9	49.5	ND
7439-89-6	Iron	500 *	ug/L	46.7 B	NA	20700	67.1 B	21.6 B
7439-92-1	Lead	25	ug/L	ND	NA	39.5	ND	ND
7439-95-4	Magnesium	35000 (G)	ug/L	ND	NA	7240	27.4 B	53.6 B
7439-96-5	Manganese	300 *	ug/L	ND	NA	536	0.7 B	ND
7439-97-6	Mercury	2	ug/L	ND	NA	ND	ND	ND
7440-02-0	Nickel	100	ug/L	2.3 B	NA	25.7 B	2.5 B	1.1 B
7440-09-7	Potassium	NS	ug/L	45600	NA	55600	53000	44700
7782-49-2	Selenium	10	ug/L	ND	NA	ND	8.1	ND
7440-22-4	Silver	50	ug/L	ND	NA	1.9 B	0.85 B	ND
7440-23-5	Sodium	20000	ug/L	43700	NA	53500	51500	45600
7440-28-0	Thallium	4 (G)	ug/L	ND	NA	ND	ND	ND
7440-62-2	Vanadium	NS	ug/L	13.9 B	NA	69	20.9 B	13.1 B
7440-66-6	Zinc	2000 (G)	ug/L	4.3 B	NA	247	4.3 B	4.9 B

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-3 H7393 OB 7810 Water 5/27/98	S-3 J8339 OB 9571 Water 10/21/98	S-3 M0189 OB 1489 Water 4/19/99	S-4 162442 COLUMBIA MW1 WATER 8/13/97	S-4 G5118 OBG 5116 Water 11/20/97
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	ND	6 J	5 J	ND	ND
71-43-2	Benzene	1	ug/L	ND	ND	ND	5 J	6 J
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	8 J	ND	ND
75-35-3	1,1-Dichloroethane	5	ug/L	2 J	ND	3 J	6 J	ND
540-59-0	1,2-Dichloroethene (total)	5	ug/L	ND	ND	2 J	8 J	3 J
100-41-4	Ethylbenzene	5	ug/L	ND	ND	ND	4 J	ND
108-10-1	4-Methyl-2-pentanone	NS	ug/L	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	5	ug/L	ND	2 J	1 JB	ND	ND
127-18-4	Tetrachloroethene	5	ug/L	1 J	ND	ND	ND	ND
108-88-3	Toluene	5	ug/L	4 J	ND	1 J	2 J	1 J
79-01-6	Trichloroethene	5	ug/L	ND	ND	ND	2 J	1 J
75-01-4	Vinyl chloride	2	ug/L	ND	ND	ND	2 J	ND
1330-20-7	Xylene (total)	5	ug/L	9 J	ND	4 J	17	2 J
156-59-2	cis-1,2-Dichloroethene	5	ug/L	ND	ND	2 J	NA	3 J
156-60-5	trans-1,2-Dichloroethene	5	ug/L	NA	ND	ND	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	ND	ND	2 J	1 J	4 J
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	1 JB	ND
132-64-9	Dibenzofuran	NS	ug/L	ND	ND	2 J	1 J	4 J
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	43	ND	28	21	4 J
91-57-6	2-Methylnaphthalene	NS	ug/L	2 J	ND	4 J	1 J	6 J
95-48-7	2-Methylphenol	1	ug/L	15	ND	10 J	5 J	2 J
106-44-5	4-Methylphenol	1	ug/L	44	ND	25	3 J	3 J
108-95-2	Phenol	1	ug/L	5 J	ND	ND	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	7 J	ND	ND	1 JB	ND
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	ND	ND	3 J	2 J	8 J
208-96-8	Acenaphthylene	NS	ug/L	ND	ND	4 J	ND	4 J
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	ND	1 J
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	2 J	ND
86-73-7	Fluorene	50 (G)	ug/L	ND	ND	2 J	2 J	6 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	5 J	ND	40	13	110 E
85-01-8	Phenanthrene	50 (G)	ug/L	1 J	ND	2 J	3 J	10 J
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	2 J	ND
	Total PAHs			6	ND	51	24	139

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-3 / H7393 / OB / 7810 / Water / 5/27/98	S-3 / J8339 / OB / 9571 / Water / 10/21/98	S-3 / M0189 / OB / 1489 / Water / 4/19/99	S-4 / 162442 / COLUMBIA / MW1 / WATER / 8/13/97	S-4 / G5118 / OBG / 5116 / Water / 11/20/97
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	ND	ND	ND	ND	ND
72-54-8	4,4'-DDD	0.3	ug/L	ND	ND	0.00049 JP	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	0.0047 JP	0.0024 JP	ND	ND	ND
50-29-3	4,4'-DDT	0.2	ug/L	ND	ND	0.00077 JP	ND	ND
60-57-1	Dieldrin	0.004	ug/L	0.0044 JP	ND	0.00047 JP	ND	ND
959-98-8	Endosulfan I	NS	ug/L	0.0032 JP	ND	ND	ND	ND
33213-65-9	Endosulfan II	NS	ug/L	ND	0.005 JP	0.00084 JP	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	0.068 JP	0.0069 BJP	0.0014 JP	ND	ND
72-20-8	Endrin	0 ND	ug/L	0.36 P	ND	ND	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	0.0075 J	0.0016 J	ND	ND
53494-70-5	Endrin ketone	5	ug/L	ND	ND	ND	ND	ND
76-44-8	Heptachlor	ND	ug/L	ND	ND	ND	ND	ND
1024-57-3	Heptachlor epoxide	0.03	ug/L	ND	0.00073 J	0.0026 JP	ND	ND
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND
319-84-6	alpha-BHC	0.01	ug/L	ND	ND	ND	ND	ND
5103-71-9	alpha-Chlordane	NS	ug/L	ND	ND	ND	ND	ND
319-85-7	beta-BHC	ND	ug/L	ND	ND	ND	ND	ND
319-86-8	delta-BHC	0.04	ug/L	ND	ND	ND	ND	ND
58-89-9	gamma-BHC	ND	ug/L	ND	ND	ND	ND	0.0011 JP
5103-74-2	gamma-Chlordane	NS	ug/L	0.019 JP	0.003 JP	0.00072 BJP	ND	ND
53469-21-9	Aroclor-1242		ug/L	0.82 JP	ND	0.52 JP	ND	ND
12672-29-6	Aroclor-1248		ug/L	ND	ND	ND	ND	ND
11096-82-5	Aroclor-1260		ug/L	ND	ND	ND	ND	ND
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	460	100 B	298	17400	618
7440-36-0	Antimony	3 (G)	ug/L	5.3 B	12.6 B	5.1 B	5.8 BE	ND
7440-38-2	Arsenic	25	ug/L	9.3 B	4.9 B	3.8 B	33.5	18.4
7440-39-3	Barium	1000	ug/L	44.4 B	54.8 B	56.6 B	206	41.3 B
7440-41-7	Beryllium	3 (G)	ug/L	ND	ND	ND	6.2	ND
7440-43-9	Cadmium	5	ug/L	ND	ND	ND	9.9	ND
7440-70-2	Calcium	NS	ug/L	113000	112000	151000	191000	84000
7440-47-3	Chromium	50	ug/L	ND	ND	ND	66.9	ND
7440-48-4	Cobalt	NS	ug/L	ND	ND	ND	17 B	ND
7440-50-8	Copper	200	ug/L	1 B	4.6 B	1.1 B	90.3	1.8 B
57-12-5	Cyanide	200	ug/L	32.5	69	15.6	30.8	ND
7439-89-6	Iron	500 *	ug/L	41.6 B	708	62.3 B	85100	774
7439-92-1	Lead	25	ug/L	ND	ND	ND	396	2.2 B
7439-95-4	Magnesium	35000 (G)	ug/L	ND	546 B	46.8 B	17600	719 B
7439-96-5	Manganese	300 *	ug/L	ND	14.8 B	ND	3170	55.2
7439-97-6	Mercury	2	ug/L	ND	ND	ND	0.96	ND
7440-02-0	Nickel	100	ug/L	2.4 B	1.9 B	2.5 B	37.6 B	3.7 B
7440-09-7	Potassium	NS	ug/L	47400	38500	47100	49900	16600
7782-49-2	Selenium	10	ug/L	ND	ND	ND	1.9 BW	ND
7440-22-4	Silver	50	ug/L	ND	ND	ND	5.5 B	0.61 B
7440-23-5	Sodium	20000	ug/L	49400	32500	44300	34300	25700
7440-28-0	Thallium	4 (G)	ug/L	ND	ND	ND	23.8	ND
7440-62-2	Vanadium	NS	ug/L	14.2 B	5.5 B	16.5 B	19.8 B	3.2 B
7440-66-6	Zinc	2000 (G)	ug/L	8.4 B	26.1	ND	664	13.2 B

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-4DL G5118DL OBG 5116 Water 11/20/97	S-4 H1025 OB 6857 Water 2/20/98	S-4 H7398 OB 7810 Water 5/28/98	S-4DL H7398DL OB 7810 Water 5/28/98	S-4RE H7398RE OB 7810 Water 5/28/98
	VOLATILES							
67-64-1	Acetone	50 (G)	ug/L	NA	2 J	ND	NA	NA
71-43-2	Benzene	1	ug/L	NA	ND	1 J	NA	NA
75-15-0	Carbon disulfide	NS	ug/L	NA	ND	ND	NA	NA
75-35-3	1,1-Dichloroethane	5	ug/L	NA	ND	ND	NA	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	NA	ND	ND	NA	NA
100-41-4	Ethylbenzene	5	ug/L	NA	ND	ND	NA	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L	NA	ND	ND	NA	NA
75-09-2	Methylene chloride	5	ug/L	NA	ND	ND	NA	NA
127-18-4	Tetrachloroethene	5	ug/L	NA	ND	ND	NA	NA
108-88-3	Toluene	5	ug/L	NA	ND	ND	NA	NA
79-01-6	Trichloroethene	5	ug/L	NA	ND	ND	NA	NA
75-01-4	Vinyl chloride	2	ug/L	NA	ND	ND	NA	NA
1330-20-7	Xylene (total)	5	ug/L	NA	ND	ND	NA	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	NA	ND	ND	NA	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L	NA	NA	NA	NA	NA
	SEMIVOLATILES							
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
86-74-8	Carbazole	NS	ug/L	4 JD	ND	4 J	4 JD	4 J
59-50-7	4-Chloro-3-methylphenol	1	ug/L	ND	ND	ND	ND	ND
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	5 JD	ND	5 J	5 JD	5 J
541-73-1	1,3-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	3	ug/L	ND	ND	ND	ND	ND
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND	ND	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	18	19 JD	19
91-57-6	2-Methylnaphthalene	NS	ug/L	6 JD	ND	5 J	5 JD	5 J
95-48-7	2-Methylphenol	1	ug/L	ND	ND	6 J	6 JD	6 J
106-44-5	4-Methylphenol	1	ug/L	ND	ND	10	11 JD	11
108-95-2	Phenol	1	ug/L	ND	ND	1 J	ND	1 J
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND	ND	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND
	PAHs							
83-32-9	Acenaphthene	20 (G)	ug/L	8 JD	ND	6 J	6 JD	6 J
208-96-8	Acenaphthylene	NS	ug/L	4 JD	ND	5 J	5 JD	5 J
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND	ND	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND	ND	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	ND	ND
86-73-7	Fluorene	50 (G)	ug/L	8 JD	ND	6 J	7 JD	7 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND	ND	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	190 D	ND	110 E	110 D	110 E
85-01-8	Phenanthrene	50 (G)	ug/L	12 JD	ND	8 J	8 JD	8 J
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	ND	ND
	Total PAHs			222	ND	135	136	136

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-4DL G5118DL OBG 5116 Water 11/20/97	S-4 H1025 OB 6857 Water 2/20/98	S-4 H7398 OB 7810 Water 5/28/98	S-4DL H7398DL OB 7810 Water 5/28/98	S-4RE H7398RE OB 7810 Water 5/28/98
	PESTICIDES/PCBs							
309-00-2	Aldrin	ND	ug/L	NA	ND	ND	NA	NA
72-54-8	4,4'-DDD	0.3	ug/L	NA	0.0045 JP	ND	NA	NA
72-55-9	4,4'-DDE	0.2	ug/L	NA	0.017 J	ND	NA	NA
50-29-3	4,4'-DDT	0.2	ug/L	NA	0.0085 JP	ND	NA	NA
60-57-1	Dieldrin	0.004	ug/L	NA	ND	ND	NA	NA
959-98-8	Endosulfan I	NS	ug/L	NA	ND	ND	NA	NA
33213-65-9	Endosulfan II	NS	ug/L	NA	ND	ND	NA	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	NA	ND	0.0078 JP	NA	NA
72-20-8	Endrin	0 ND	ug/L	NA	ND	ND	NA	NA
7421-93-4	Endrin aldehyde	5	ug/L	NA	ND	ND	NA	NA
53494-70-5	Endrin ketone	5	ug/L	NA	ND	ND	NA	NA
76-44-8	Heptachlor	ND	ug/L	NA	ND	ND	NA	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	NA	ND	ND	NA	NA
72-43-5	Methoxychlor	35	ug/L	NA	ND	ND	NA	NA
319-84-6	alpha-BHC	0.01	ug/L	NA	ND	ND	NA	NA
5103-71-9	alpha-Chlordane	NS	ug/L	NA	0.0036 JP	ND	NA	NA
319-85-7	beta-BHC	ND	ug/L	NA	ND	ND	NA	NA
319-86-8	delta-BHC	0.04	ug/L	NA	ND	ND	NA	NA
58-89-9	gamma-BHC	ND	ug/L	NA	0.0021 JP	ND	NA	NA
5103-74-2	gamma-Chlordane	NS	ug/L	NA	ND	0.011 JP	NA	NA
53469-21-9	Aroclor-1242		ug/L	NA	ND	ND	NA	NA
12672-29-6	Aroclor-1248		ug/L	NA	ND	ND	NA	NA
11096-82-5	Aroclor-1260		ug/L	NA	ND	ND	NA	NA
	INORGANICS							
7429-90-5	Aluminum	NS	ug/L	NA	935	329	NA	NA
7440-36-0	Antimony	3 (G)	ug/L	NA	ND	ND	NA	NA
7440-38-2	Arsenic	25	ug/L	NA	ND	16.8	NA	NA
7440-39-3	Barium	1000	ug/L	NA	40.5 B	54.1 B	NA	NA
7440-41-7	Beryllium	3 (G)	ug/L	NA	ND	ND	NA	NA
7440-43-9	Cadmium	5	ug/L	NA	ND	ND	NA	NA
7440-70-2	Calcium	NS	ug/L	NA	74100	134000	NA	NA
7440-47-3	Chromium	50	ug/L	NA	3.3 B	ND	NA	NA
7440-48-4	Cobalt	NS	ug/L	NA	ND	ND	NA	NA
7440-50-8	Copper	200	ug/L	NA	3.2 B	1.2 B	NA	NA
57-12-5	Cyanide	200	ug/L	NA	15.9	70.5	NA	NA
7439-89-6	Iron	500 *	ug/L	NA	1070	155	NA	NA
7439-92-1	Lead	25	ug/L	NA	ND	ND	NA	NA
7439-95-4	Magnesium	35000 (G)	ug/L	NA	17600	3900 B	NA	NA
7439-96-5	Manganese	300 *	ug/L	NA	525	83.1	NA	NA
7439-97-6	Mercury	2	ug/L	NA	ND	ND	NA	NA
7440-02-0	Nickel	100	ug/L	NA	2.3 B	ND	NA	NA
7440-09-7	Potassium	NS	ug/L	NA	12600	22900	NA	NA
7782-49-2	Selenium	10	ug/L	NA	ND	ND	NA	NA
7440-22-4	Silver	50	ug/L	NA	ND	ND	NA	NA
7440-23-5	Sodium	20000	ug/L	NA	13300	24400	NA	NA
7440-28-0	Thallium	4 (G)	ug/L	NA	4.5 B	ND	NA	NA
7440-62-2	Vanadium	NS	ug/L	NA	3 B	2.2 B	NA	NA
7440-66-6	Zinc	2000 (G)	ug/L	NA	480	14.3 B	NA	NA

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-4 / M0297 / OB / 1516 / Water / 4/21/99	S-4 RE / M0297RE / OB / 1516 / Water / 4/21/99
	VOLATILES				
67-64-1	Acetone	50 (G)	ug/L	6 J	NA
71-43-2	Benzene	1	ug/L	5 J	NA
75-15-0	Carbon disulfide	NS	ug/L	10	NA
75-35-3	1,1-Dichloroethane	5	ug/L	8 J	NA
540-59-0	1,2-Dichloroethene (total)	5	ug/L	11	NA
100-41-4	Ethylbenzene	5	ug/L	7 J	NA
108-10-1	4-Methyl-2-pentanone	NS	ug/L	ND	NA
75-09-2	Methylene chloride	5	ug/L	2 JB	NA
127-18-4	Tetrachloroethene	5	ug/L	ND	NA
108-88-3	Toluene	5	ug/L	4 J	NA
79-01-6	Trichloroethene	5	ug/L	ND	NA
75-01-4	Vinyl chloride	2	ug/L	4 J	NA
1330-20-7	Xylene (total)	5	ug/L	24	NA
156-59-2	cis-1,2-Dichloroethene	5	ug/L	9 J	NA
156-60-5	trans-1,2-Dichloroethene	5	ug/L	2 J	NA
	SEMIVOLATILES				
85-68-7	Butyl benzyl phthalate	50 (G)	ug/L	ND	ND
86-74-8	Carbazole	NS	ug/L	ND	ND
59-50-7	4-Chloro-3-methylphenol	1	ug/L	5 J	4 J
84-74-2	Di-n-butyl phthalate	50	ug/L	ND	ND
132-64-9	Dibenzofuran	NS	ug/L	ND	ND
541-73-1	1,3-Dichlorobenzene	3	ug/L	1 J	1 J
106-46-7	1,4-Dichlorobenzene	3	ug/L	2 J	2 J
120-83-2	2,4-Dichlorophenol	1	ug/L	ND	ND
131-11-3	Dimethyl phthalate	50 (G)	ug/L	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	51	37
91-57-6	2-Methylnaphthalene	NS	ug/L	2 J	1 J
95-48-7	2-Methylphenol	1	ug/L	2 J	2 J
106-44-5	4-Methylphenol	1	ug/L	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	ND	ND
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND
	PAHs				
83-32-9	Acenaphthene	20 (G)	ug/L	ND	ND
208-96-8	Acenaphthylene	NS	ug/L	ND	ND
120-12-7	Anthracene	50 (G)	ug/L	ND	ND
56-55-3	Benzo[a]anthracene	0.002 (G)	ug/L	ND	ND
50-32-8	Benzo[a]pyrene	0 ND	ug/L	ND	ND
205-99-2	Benzo[b]fluoranthene	0.002 (G)	ug/L	ND	ND
191-24-2	Benzo[g,h,i]perylene	NS	ug/L	ND	ND
207-08-9	Benzo[k]fluoranthene	0.002 (G)	ug/L	ND	ND
218-01-9	Chrysene	0.002 (G)	ug/L	ND	ND
53-70-3	Dibenz[a,h]anthracene	NS	ug/L	ND	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND
86-73-7	Fluorene	50 (G)	ug/L	1 J	1 J
193-39-5	Indeno[1,2,3-cd]pyrene	0.002 (G)	ug/L	ND	ND
91-20-3	Naphthalene	10 (G)	ug/L	11	8 J
85-01-8	Phenanthrene	50 (G)	ug/L	ND	ND
129-00-0	Pyrene	50 (G)	ug/L	ND	ND
	Total PAHs			12	9

APPENDIX B-2

CAS NO.	COMPOUND	NYSDEC Class GA Groundwater Standards/Guidelines	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	S-4 / M0297 / OB / 1516 / Water / 4/21/99	S-4 RE / M0297RE / OB / 1516 / Water / 4/21/99
	PESTICIDES/PCBs				
309-00-2	Aldrin	ND	ug/L	ND	NA
72-54-8	4,4'-DDD	0.3	ug/L	0.0047 JP	NA
72-55-9	4,4'-DDE	0.2	ug/L	ND	NA
50-29-3	4,4'-DDT	0.2	ug/L	0.022 BJP	NA
60-57-1	Dieldrin	0.004	ug/L	ND	NA
959-98-8	Endosulfan I	NS	ug/L	ND	NA
33213-65-9	Endosulfan II	NS	ug/L	0.0079 JP	NA
1031-07-8	Endosulfan sulfate	NS	ug/L	0.0023 BJP	NA
72-20-8	Endrin	0 ND	ug/L	0.011 JP	NA
7421-93-4	Endrin aldehyde	5	ug/L	0.0096 JP	NA
53494-70-5	Endrin ketone	5	ug/L	0.0075 JP	NA
76-44-8	Heptachlor	ND	ug/L	ND	NA
1024-57-3	Heptachlor epoxide	0.03	ug/L	0.025 J	NA
72-43-5	Methoxychlor	35	ug/L	ND	NA
319-84-6	alpha-BHC	0.01	ug/L	ND	NA
5103-71-9	alpha-Chlordane	NS	ug/L	0.012 JP	NA
319-85-7	beta-BHC	ND	ug/L	ND	NA
319-86-8	delta-BHC	0.04	ug/L	0.008 JP	NA
58-89-9	gamma-BHC	ND	ug/L	ND	NA
5103-74-2	gamma-Chlordane	NS	ug/L	ND	NA
53469-21-9	Aroclor-1242		ug/L	1.5 P	NA
12672-29-6	Aroclor-1248		ug/L	ND	NA
11096-82-5	Aroclor-1260		ug/L	ND	NA
	INORGANICS				
7429-90-5	Aluminum	NS	ug/L	58.9 B	NA
7440-36-0	Antimony	3 (G)	ug/L	ND	NA
7440-38-2	Arsenic	25	ug/L	ND	NA
7440-39-3	Barium	1000	ug/L	68.9 BE	NA
7440-41-7	Beryllium	3 (G)	ug/L	0.13	NA
7440-43-9	Cadmium	5	ug/L	0.5 B	NA
7440-70-2	Calcium	NS	ug/L	456000	NA
7440-47-3	Chromium	50	ug/L	2 B	NA
7440-48-4	Cobalt	NS	ug/L	ND	NA
7440-50-8	Copper	200	ug/L	ND	NA
57-12-5	Cyanide	200	ug/L	48.9	NA
7439-89-6	Iron	500 *	ug/L	463	NA
7439-92-1	Lead	25	ug/L	1.2 B	NA
7439-95-4	Magnesium	35000 (G)	ug/L	10700	NA
7439-96-5	Manganese	300 *	ug/L	357	NA
7439-97-6	Mercury	2	ug/L	ND	NA
7440-02-0	Nickel	100	ug/L	ND	NA
7440-09-7	Potassium	NS	ug/L	60200	NA
7782-49-2	Selenium	10	ug/L	ND	NA
7440-22-4	Silver	50	ug/L	ND	NA
7440-23-5	Sodium	20000	ug/L	36400	NA
7440-28-0	Thallium	4 (G)	ug/L	ND	NA
7440-62-2	Vanadium	NS	ug/L	2 B	NA
7440-66-6	Zinc	2000 (G)	ug/L	2.5 B	NA

APPENDIX B-3
SURFACE WATER CHEMICAL ANALYSIS RESULTS
(1997 TO 1999)

APPENDIX B-3

CAS NO.	COMPOUND	NYSDEC Class A Surface Water Standards/Guideline	SAMPLE ID: / LAB ID: / SOURCE: / SDG: / MATRIX: / SAMPLED: / UNITS:	SW-1 G5192 OBG 5116 Water 11/21/97	SW-1 H0921 OB 6847 Water 2/18/98	SW-1 H7401 OB 7810 Water 5/28/98	SW-1 M0192 OB 1489 Water 4/20/99	SW-2 G5193 OBG 5116 Water 11/21/97	SW-3 G5117 OBG 5116 Water 11/20/97
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	ND	ND	ND	ND	2 J	ND
75-15-0	Carbon disulfide	NS	ug/L	ND	ND	ND	5 J	ND	ND
	SEMIVOLATILES								
117-81-7	bis(2-Ethylhexyl)phthalate	5	ug/L	ND	ND	1 J	ND	ND	ND
	PAHs								
	NONE DETECTED								
	PESTICIDES								
72-54-8	4,4'-DDD	0.3	ug/L	0.0022 JP	ND	ND	0.002 J	ND	ND
72-55-9	4,4'-DDE	0.2	ug/L	0.021 J	0.0019 JP	0.0032 JP	ND	0.0043 JP	ND
50-29-3	4,4'-DDT	0.2	ug/L	0.1 JP	ND	ND	ND	0.0014 JP	ND
60-57-1	Dieldrin	0.004	ug/L	ND	ND	0.0016 JP	0.00096 JP	ND	ND
33213-65-	Endosulfan II	NS	ug/L	ND	0.0059 J	ND	0.00052 JP	ND	ND
1031-07-8	Endosulfan sulfate	NS	ug/L	ND	ND	0.001 JP	0.0018 JP	ND	ND
72-20-8	Endrin	0.2	ug/L	ND	ND	0.0017 JP	0.00056 JP	ND	ND
7421-93-4	Endrin aldehyde	5	ug/L	ND	0.0059 JP	ND	ND	ND	ND
72-43-5	Methoxychlor	35	ug/L	ND	ND	ND	ND	ND	0.012 J
319-84-6	alpha-BHC	0.01	ug/L	0.0031 JP	0.0068 J	ND	0.0083 BJP	ND	ND
58-89-9	gamma-BHC	0.05	ug/L	ND	0.0023 J	0.0019 BJP	ND	ND	ND
5103-74-2	gamma-Chlordane	NS	ug/L	ND	ND	0.0026 JP	0.0048 BJP	ND	ND
	INORGANICS								
7429-90-5	Aluminum	100 (1)	ug/L	263	2630	73.6 B	153 B	687	358
7440-36-0	Antimony	3	ug/L	ND	ND	2.9 B	8.3 B	ND	ND
7440-38-2	Arsenic	50	ug/L	ND	ND	7.2 B	5.2 B	ND	ND
7440-39-3	Barium	1000	ug/L	12.2 B	33.9 B	26 B	50.3 BE	20 B	25.8 B
7440-41-7	Beryllium	3 (G)	ug/L	ND	0.08 B	ND	ND	ND	ND
7440-70-2	Calcium	NS	ug/L	34600	68900	134000	189000	38100	131000
7440-47-3	Chromium	50	ug/L	2.6 B	7.4 B	ND	8.7 B	3 B	8.1 B
7440-50-8	Copper	200	ug/L	3.4 B	8.1 B	ND	3.6 B	5.3 B	2.9 B
7439-89-6	Iron	300	ug/L	300	2030	352	223	1080	559
7439-92-1	Lead	50	ug/L	ND	10.2	ND	ND	4.6	ND
7439-95-4	Magnesium	35000	ug/L	11000	19200	57900	53200	10200	31800
7439-96-5	Manganese	300	ug/L	6.4 B	70.5	220	71.6	25.1	56
7440-02-0	Nickel	100	ug/L	1.2 B	3.6 B	2.3 B	3.2 B	2.3 B	3 B
7440-09-7	Potassium	NS	ug/L	4330 B	9890	76900	66300	1040 B	24700
7782-49-2	Selenium	10	ug/L	4.4 B	ND	ND	ND	ND	4.2 B
7440-22-4	Silver	50	ug/L	ND	ND	ND	ND	0.9 B	ND
7440-23-5	Sodium	NS	ug/L	6090	30400	134000	133000	3980 B	95400
7440-62-2	Vanadium	14	ug/L	1.2 B	6.4 B	1.2 B	9.9 B	2.2 B	3.5 B
7440-66-6	Zinc	200 (G)	ug/L	6.5 B	29.9	9.3 B	23.7	26.2	12.1 B
57-12-5	Cyanide	200	ug/L	ND	ND	ND	ND	ND	138