C.T. MALE ASSOCIATES, P.C.

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September 22, 2010

Mr. Michael P. McLean, P.E.
NYS Dept. of Environmental Conservation
Region 5 Office
1115 NYS Route 86, PO Box 296
Ray Brook, New York 12977-0296

Re: 2010 Bi-Annual Site Management Plan Groundwater Sampling Results
Former Independent Leather Tannery Site (#B-00158)
City of Gloversville, Fulton County
C.T. Male Project No. 10.1125

Dear Mike:

C.T. Male Associates, P.C. (C.T. Male) has a performed groundwater sampling event as part of the long term groundwater monitoring program at the Former Independent Leather Tannery Site in Gloversville, New York in accordance with NYSDEC approved Site Management Plan, dated January 13, 2009. This letter summarizes the results of the bi-annual (once every two years) groundwater monitoring event completed in July 2010. Also enclosed is the monitoring well location map, analytical results summary tables, groundwater contour map, and site plan summarizing the concentrations of arsenic and chromium detected in groundwater in July 2010 and previous groundwater monitoring events (July 2008, May 2007, March 2006 and May 2002).

Wells Sampled

The Monitoring Well Location Plan (Figure 1) depicts the monitoring wells that were purged and sampled for laboratory analysis for the July 22 and 23, 2010 monitoring event. The monitoring wells sampled on the Former Independent Leather Tannery Site were B-2R, B-3, MW-5 through MW-12, MW-14 and OFF35. The monitoring well sampled on the property not owned by the City was OFF33. The monitoring wells that have been abandoned or removed as a result of remedial work are still shown on the Monitoring Well Location Plan.

Analytical Results

The analytical results for the July 2008 monitoring event and previous monitoring events are summarized in tabular form in Table 1, attached. Table 1 summarizes the analytical results for the on-site wells in addition to the one (1) remaining off-site well. Note that the tables list only those compounds and analytes detected above the limit of laboratory detection. The analytical results were not subjected to data validation per NYSDEC Guidance for the Development of Data Usability Summary Report (DUSR), as approved by NYSDEC.

As shown in Table 1, naphthalene, and six metals (arsenic, chromium, iron, magnesium, manganese, and sodium) were the only compounds/analytes detected at concentration which exceed there NYSDEC Water Quality Standard/Guidance Values.

Naphthalene was detected above NYSDEC regulatory standards at monitoring well MW-10 in the July 2010 sampling event. The concentration of this petroleum related compound was relatively low (360 ug/L), and has been generally decreasing in concentration since May 2002 with the exception of a slight increase when compared to the last sampling event in July 2008. The concentration of naphthalene within monitoring well MW-10 was 1,000 ug/L in May 2002, 690 ug/L in March 2006, 450 ug/L in May 2007, and 160 ug/L in July 2008.

Of the metals detected above regulatory value, arsenic and chromium are the main analytes of concern based on their historical use at the former tannery. Arsenic and chromium concentrations continue to fluctuate slightly (increase and decrease), but overall they have been relatively stable over time.

Groundwater Contour and Arsenic/Chromium Concentration Maps

Groundwater depths were collected at the monitoring wells on July 22, 2010 prior to purging the wells. Utilizing the groundwater levels and an assumed benchmark, the water level depths were converted to reference elevations to contour the water table and show the inferred direction of groundwater flow. As shown in Figure 2, the groundwater flow direction on July 22, 2010 is inferred to have both easterly and westerly flow components converging on the Cayadutta Creek.

Remedial actions completed in 2005/2006 removed on-site and off-site arsenic, chromium and petroleum impacted soils; however, residual impacts to soil and groundwater remain on-site. Arsenic and chromium are present in groundwater across the site above and below NYSDEC Water Quality Standards. Figure 3 summarizes the arsenic and chromium concentrations at each well for sampling events completed to date.

Future Bi-Annual Groundwater Sampling

The next bi-annual groundwater sampling event is planned for summer/fall 2012. The wells to be sampled and the associated analytical parameters for each well are summarized in the following table, as previously approved by NYSDEC.

Table 1
Summary of Long Term Groundwater Monitoring Program

Well ID	TCL VOCs	TCL SVOCs	Select Metals (1)	TCL pesticides
On-site Well Locations				
B-2R			X	
B-3			X	
MW-5			X	
MW-6			X	X
MW-7	X	X	X	X
MW-8			X	
MW-9			X	
MW-10	X	X	X	X
MW-11			X	
MW-12			X	
MW-14			X	
OFF35	X	X	X	
Off-Site Well Locations				
OFF33	X	X	X	

Notes:
"X" denotes the sample will be analyzed for those parameters.
(1) "Certain Metals" are arsenic, chromium, iron, magnesium, manganese and sodium.
(2) Not required per Mike McLean of NYSDEC.
ASP Category B Data Deliverable not required per Mike McLean of NYSDEC.

Conclusions

The annual groundwater monitoring was performed in July 2010 in general accordance with the NYSDEC approved Site Management Plan. The analytical results show that arsenic and chromium remain the primary contaminants of concern as these metals are present in groundwater at certain on-site well locations at concentrations above NYSDEC regulatory values. The arsenic and chromium concentrations remain relatively similar with minimal upward and downward fluctuation.

Naphthalene is the only petroleum related compound that is being detected above its applicable groundwater standard at only one (1) monitoring well location, MW-10. The concentration of naphthalene was elevated at monitoring well MW-10 in 2002, but decreased in 2006, 2007 and 2008, and slightly rebounded from 160 ug/L in 2008 to 360 ug/L in 2010. Acetone was detected monitoring wells OFF33 and OFF35, respectively, but these concentrations are well below its applicable guidance value. Two pesticides, beta-BHC and delta-BHC, continue to be detected in MW-7, but their concentrations are below their applicable standard values.

The groundwater sampling and analyses events will continue on an bi-annual basis (every two years) and the next event will be performed in July 2012. The annual Site Management Plan monitoring (i.e., site visit to observe the condition of the surface cover system) will continue to be performed on an annual basis. The next annual Site Management Plan monitoring event is scheduled for the fall months of 2010.

If you have any questions, please contact me at (518) 786-7548.

Sincerely,
C.T. MALE ASSOCIATES, P.C.

Jeffrey A. Marx, P.E.
Project Engineer

Review and Approved By:

Kirk Moline
Project Manager

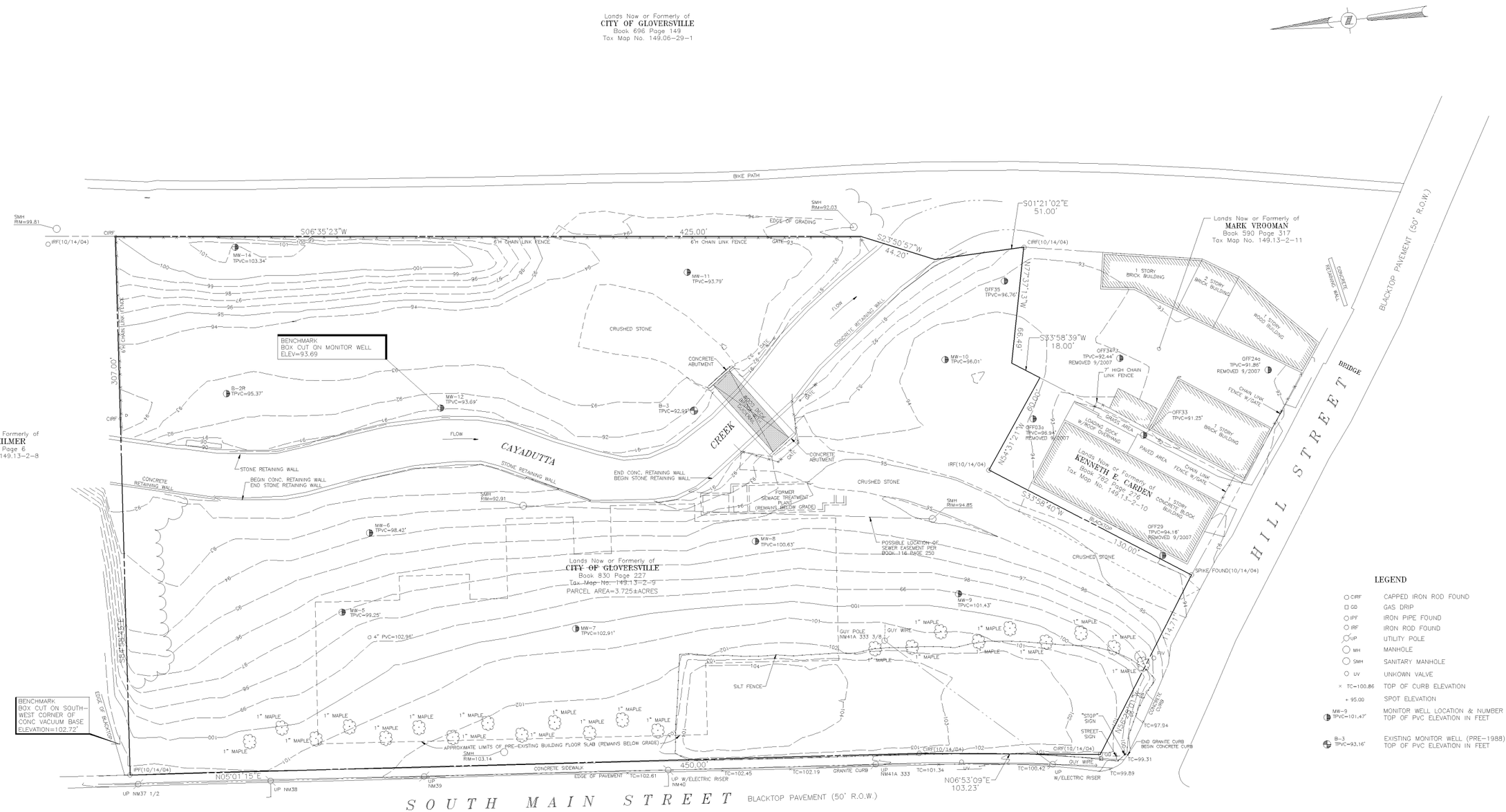
Att Figures
Table 1 - Analytical Summary

c: Robert Abel, City of Gloversville

Figure 1
Monitoring Well Location Map

NONE

PROJECT NUMBER: 01.7293



LEGEND

○ CIRF	CAPPED IRON ROD FOUND
□ GD	GAS DRIP
○ IPF	IRON PIPE FOUND
○ IRF	IRON ROD FOUND
○ UP	UTILITY POLE
◯ MH	MANHOLE
◯ SMH	SANITARY MANHOLE
○ UV	UNKOWN VALVE
× TC=100.86	TOP OF CURB ELEVATION
+ 95.00	SPOT ELEVATION
MW-9 TPVC=101.47	MONITOR WELL LOCATION & NUMBER TOP OF PVC ELEVATION IN FEET
B-3 TPVC=93.16'	EXISTING MONITOR WELL (PRE-1988) TOP OF PVC ELEVATION IN FEET

NOTE:
1.) THE LOCATIONS AND FEATURES DEPICTED ON THIS MAP ARE APPROXIMATE AND DO NOT REPRESENT AN ACTUAL FIELD SURVEY.

MAP REFERENCE:
1.) TOPOGRAPHIC SURVEY, 321 SOUTH MAIN STREET, CITY OF GLOVERSVILLE, COUNTY OF FULTON, NY, DATED AUGUST 25, 2006, DWG. NO. 06-0631, PREPARED BY C.T. MALE ASSOCIATES, P.C.,

BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				

DESIGNED :
DRAFTED : J.MARX
CHECKED : K.MOLINE
PROJ. NO: 01.7293
SCALE : 1"=30'
DATE : SEPT. 7, 2010

FIGURE 1
MONITORING WELL LOCATION MAP
FORMER INDEPENDENT LEATHER TANNERY
BI-ANNUAL GROUNDWATER MONITORING

CITY OF GLOVERSVILLE — FULTON, NY

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 • FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING • CIVIL ENGINEERING
ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

CAD DWG. FILE NAME: MON. WELL LOC. MAP & RESULTS_2010.DWG

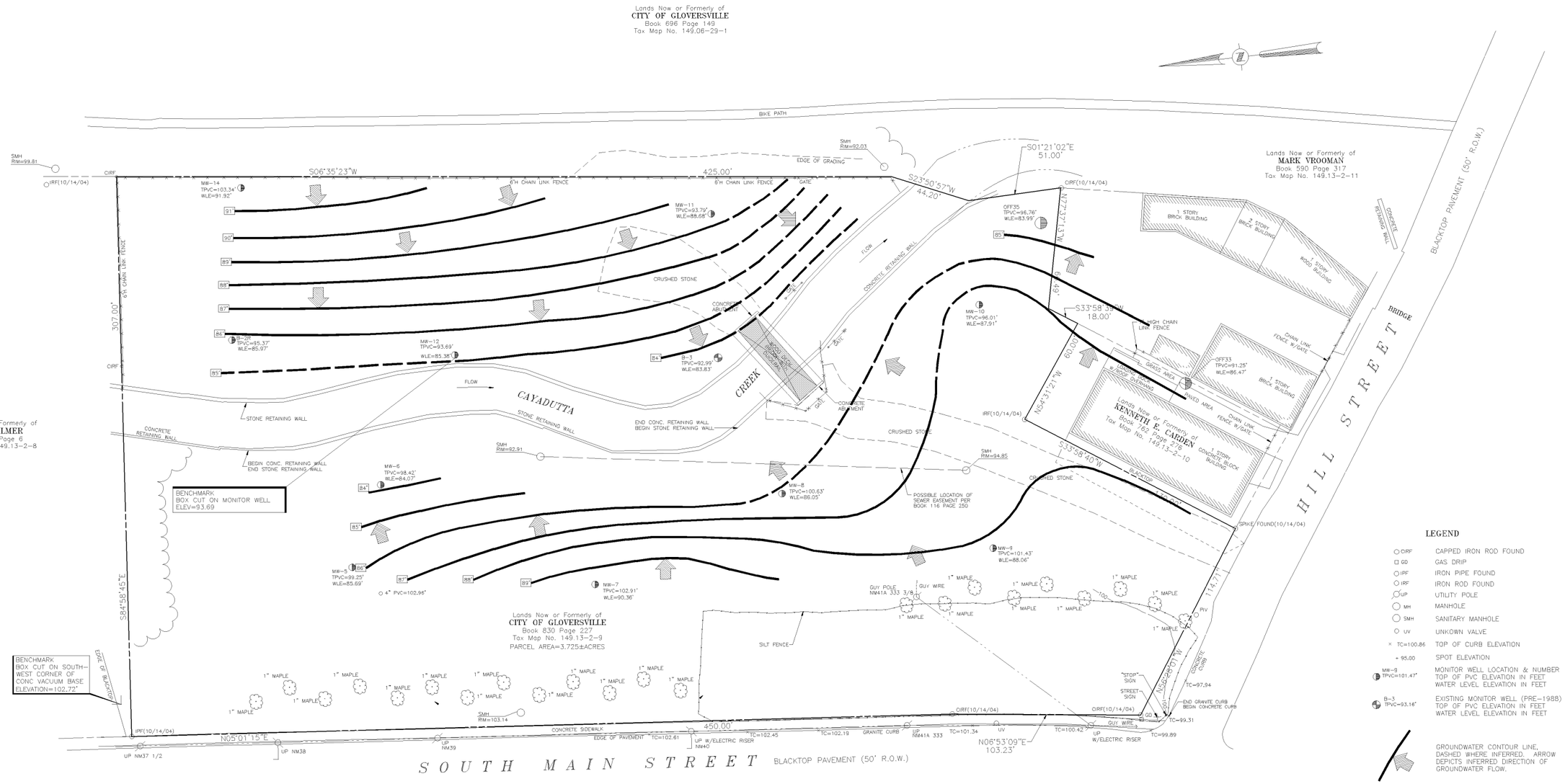
CAD DWG. FILE NAME: MON. WELL LOC. MAP

Figure 2
Groundwater Contour Map

MAP REFERENCES

1. "Survey of Lands of Independent Leather MFG. Corp.," City of Gloversville, County of Fulton, NY., dated October 26, 1988, prepared by C.T. Male Associates P.C., Drawing No. 88–607.

2. "Boundary Survey Former Independent Leather Mfg. Corp., 321 South Main Street, City of Gloversville, County of Fulton, NY., dated January 29, 2002, prepared by C.T. Male Associates P.C., Drawing No. 02–446.



LEGEND

- ○ CIRF — CAPPED IRON ROD FOUND
- □ GD — GAS DRIP
- ○ IPF — IRON PIPE FOUND
- ○ IRF — IRON ROD FOUND
- UP — UTILITY POLE
- ◯ MH — MANHOLE
- ◯ SMH — SANITARY MANHOLE
- ○ UV — UNKOWN VALVE
- × TC=100.86 — TOP OF CURB ELEVATION
- + 95.00 — SPOT ELEVATION
- MW–9 TPVC=101.47' — MONITOR WELL LOCATION & NUMBER TOP OF PVC ELEVATION IN FEET WATER LEVEL ELEVATION IN FEET
- B–3 TPVC=93.16' — EXISTING MONITOR WELL (PRE–1988) TOP OF PVC ELEVATION IN FEET WATER LEVEL ELEVATION IN FEET
- GROUNDWATER CONTOUR LINE, DASHED WHERE INFERRED. ARROW DEPICTS INFERRED DIRECTION OF GROUNDWATER FLOW.

BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

DESIGNED :
DRAFTED : S.WUNSCH
CHECKED : K.MOLINE
PROJ. NO: 01.7293
SCALE : 1"=30'
DATE : SEPT. 7, 2010

FIGURE 2
GROUNDWATER CONTOUR MAP (JULY 22, 2010)
FORMER INDEPENDENT LEATHER TANNERY
BI-ANNUAL GROUNDWATER MONITORING

CITY OF GLOVERSVILLE — FULTON COUNTY, NY

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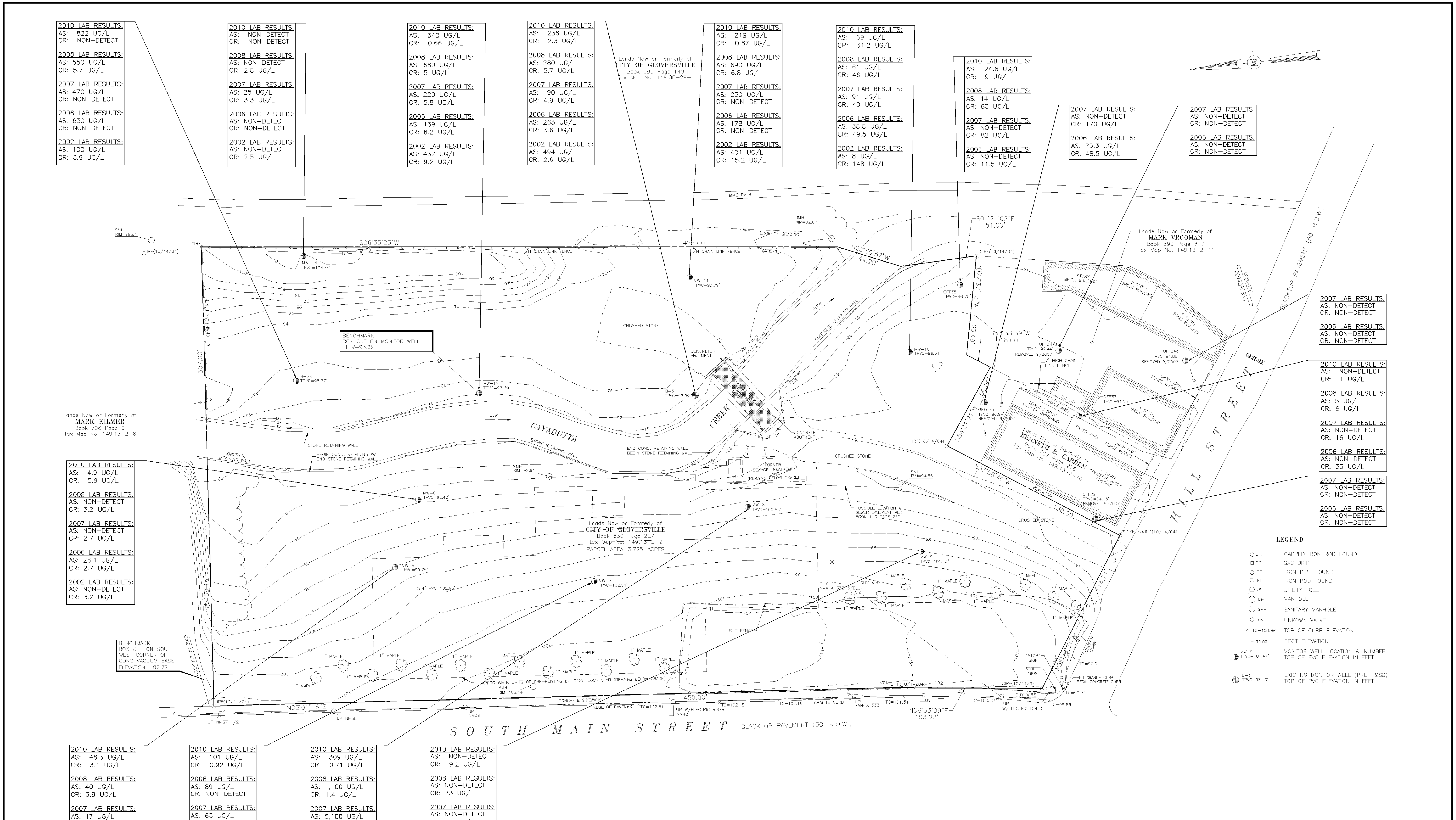
ENVIRONMENTAL SERVICES • SURVEY & LAND INFORMATION SERVICES

DWG. NO: 10–0493

Figure 3
Arsenic/Chromium Concentrations Map

CAD DWG. FILE NAME: MON WELL LOC MAP



LEGEND

CIRF	CAPPED IRON ROD FOUND
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IPF	IRON PIPE FOUND
IRF	IRON ROD FOUND
UP	UTILITY POLE
MH	MANHOLE
SMH	SANITARY MANHOLE
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TC=100.86	TOP OF CURB ELEVATION
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1 inch = 30 ft.

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.
	1			
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	6			
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	8			
	9			

DESIGNED :
DRAFTED : J.MARX
CHECKED : K.MOLINE
PROJ. NO: 01.7293
SCALE : 1"=30'
DATE : SEPT. 7, 2010

FIGURE 3
ARSENIC/CHROMIUM CONCENTRATION MAP

FORMER INDEPENDENT LEATHER TANNERY
BI-ANNUAL GROUNDWATER MONITORING

CITY OF GLOVERSVILLE — FULTON COUNTY, NY

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ENVIRONMENTAL SERVICES * SURVEY & LAND INFORMATION SERVICES

SHEET 3 OF 3
DWG. NO: 10-0493

CAD DWG. FILE NAME: MON WELL LOC MAP & RESULTS_2010.DWG

Table 1
Analytical Summary Table

Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	B-2		B-2R								B-3									
Date Sampled		May-02		Mar-06 [2]		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																					
Acetone	50 (GV)	6	J B	ND	J	ND		NS		NS		8	J M	ND		ND		NS		NS	
Benzene	1.0	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
2-Butanone (MEK)	NA	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Carbon disulfide	NA	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Chlorobenzene	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
cis-1,2-Dichloroethene	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Ethylbenzene	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Methylene chloride	5	0.7	J	ND	J	ND		NS		NS		0.8	J	ND		ND		NS		NS	
Toluene	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Vinyl chloride	2	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Xylenes (total)	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
Isopropylbenzene	5	ND		ND	J	ND		NS		NS		ND		ND		ND		NS		NS	
SVOC by EPA Method 8270, (ug/L)																					
Acenaphthene	20(GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Anthracene	50 (GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Benz(a)anthracene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Benzo(a)pyrene	ND	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Benzo(b)fluoranthene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Benzo(g,h,i)perylene	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Benzo(k)fluoranthene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Bis(2-ethylhexyl)phthalate	50 (GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Carbazole	5	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Diethyl phthalate	50	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Di-n-butyl phthalate	50 (GV)	ND		1	J	ND		NS		NS		ND		ND		ND	J	NS		NS	
Fluoranthene	50(GV)	ND		ND		ND		NS		NS		0.6	J	ND		ND	J	NS		NS	
Fluorene	50(GV)	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Naphthalene	10	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Pentachlorophenol	1	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Phenanthrene	50(GV)	ND		ND		ND		NS		NS		0.4	J	ND		ND	J	NS		NS	
Phenol	1.0	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
Pyrene	50	ND		ND		ND		NS		NS		1	J	ND		ND	J	NS		NS	
2,4,5-Trichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
2,4,6-Trichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
2,4-Dichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
2-Methylnaphthalene	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
4-Chloro-3-methylphenol	NA	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	
4-Methylphenol	No Standard	ND		ND		ND		NS		NS		ND		ND		ND	J	NS		NS	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
Based on Water Class GA, Source of Drinking Water (Groundwater).

[2] Replacement monitoring well. Analysis conducted by Upstate Laboratories, Inc.

GV denotes Guidance Value. NA is Not Applicable. NS is Not Sampled. ND is Not Detected.
"Qual" denotes Laboratory and Validators Qualifiers.
Bold indicates value exceeded Standard Guidance Value.

J indicates an estimated value.
H indicates alternate peak selection upon analytical review.
M indicates a manually integrated compound.
B indicates value was obtained from a reading less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
E indicates the reported value is estimate because of the presence of interference.
N indicates spiked sample recovery not within control limits. DL indicates laboratory dilution applied.
July 2008 analytical data is the only data not subjected to data validation via DUSR.

Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-10										MW-11									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																					
Acetone	50 (GV)	8	J	ND		ND		11		11	B	11		ND		ND		NS		NS	
Benzene	1.0	**2**	**J M**	**1.3**	**J**	1	J	0.78	J	1	J	ND		ND		ND		NS		NS	
2-Butanone (MEK)	NA	ND		ND		ND		1.9	J	3.5	J	ND		ND		ND		NS		NS	
Carbon disulfide	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Chlorobenzene	5	**5**		3.1	J H	2.1	J	2.7	J	4.6	J	ND		ND		ND		NS		NS	
cis-1,2-Dichloroethene	5	0.4	J	ND		ND		ND		ND		ND		ND		ND		NS		NS	
Ethylbenzene	5	**10**		2.7	J	1.8	J	ND		1.6	J	ND		ND		ND		NS		NS	
Methylene chloride	5	ND		ND		ND		ND		ND		0.8	J	ND		ND		NS		NS	
Toluene	5	0.8	J	0.5	J	0.36	J	ND		ND		ND		ND		ND		NS		NS	
Vinyl chloride	2	ND		ND		ND		ND		ND		0.8	J	ND		ND		NS		NS	
Xylenes (total)	5	75		4	J	3	J	ND		16		ND		ND		ND		NS		NS	
Isopropylbenzene	5	ND		ND		ND		ND		4.3	J	ND		ND		ND		NS		NS	
SVOC by EPA Method 8270, (ug/L)																					
Acenaphthene	20(GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Acenaphthene	50 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Anthracene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Benz(a)anthracene	ND	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Benzo(a)pyrene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Benzo(b)fluoranthene	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Benzo(k)fluoranthene	50 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Carbazole	5	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Diethyl phthalate	50	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Di-n-butyl phthalate	50 (GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Fluoranthene	50(GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Fluorene	50(GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Naphthalene	10	**1,000**		**690**		**450**	**J**	**160**		**360**		1	J	ND		ND		NS		NS	
Pentachlorophenol	1	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Phenanthrene	50(GV)	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Phenol	1.0	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
Pyrene	50.0	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
2,4,5-Trichlorophenol	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
2,4,6-Trichlorophenol	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
2,4-Dichlorophenol	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
2-Methylnaphthalene	NA	8	J	ND		ND		ND		ND		ND		ND		ND		NS		NS	
4-Chloro-3-methylphenol	NA	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	
4-Methylphenol	NS	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-12										MW-14									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																					
Acetone	50 (GV)	7	J	ND		ND		NS		NS		5	J	ND		NS		NS		NS	
Benzene	1.0	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
2-Butanone (MEK)	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Carbon disulfide	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Chlorobenzene	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Ethylbenzene	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Methylene chloride	5	ND		ND		ND		NS		NS		0.5	J	ND		NS		NS		NS	
Toluene	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Vinyl chloride	2	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Xylenes (total)	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Isopropylbenzene	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
SVOC by EPA Method 8270, (ug/L)																					
Acenaphthene	20(GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Acenaphthene	50 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Anthracene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Benz(a)anthracene	ND	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Benzo(a)pyrene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Benzo(b)fluoranthene	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Benzo(k)fluoranthene	50 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Carbazole	5	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Diethyl phthalate	50	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Di-n-butyl phthalate	50 (GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Fluoranthene	50(GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Fluorene	50(GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Naphthalene	10	**11**		4	J	ND		NS		NS		ND		ND		NS		NS		NS	
Pentachlorophenol	1	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Phenanthrene	50(GV)	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Phenol	1.0	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
Pyrene	50	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
2,4,5-Trichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
2,4,6-Trichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
2,4-Dichlorophenol	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
2-Methylnaphthalene	NA	0.5	J	ND		ND		NS		NS		ND		ND		NS		NS		NS	
4-Chloro-3-methylphenol	NA	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	
4-Methylphenol	NS	ND		ND		ND		NS		NS		ND		ND		NS		NS		NS	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-5										MW-6									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																					
Acetone	50 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benzene	1.0	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
2-Butanone (MEK)	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Carbon disulfide	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Chlorobenzene	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Ethylbenzene	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Methylene chloride	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Toluene	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Vinyl chloride	2	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Xylenes (total)	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Isopropylbenzene	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
SVOC by EPA Method 8270, (ug/L)																					
Acenaphthene	20(GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Acenaphthene	50 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Anthracene	0.002 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benz(a)anthracene	ND	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benzo(a)pyrene	0.002 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benzo(b)fluoranthene	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Benzo(k)fluoranthene	50 (GV)	ND		4	J	NS		NS		NS		ND		ND		NS		NS		NS	
Carbazole	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Diethyl phthalate	50	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Di-n-butyl phthalate	50 (GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Fluoranthene	50(GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Fluorene	50(GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Naphthalene	10	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Pentachlorophenol	1	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Phenanthrene	50(GV)	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Phenol	1.0	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Pyrene	50	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
2,4,5-Trichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
2,4,6-Trichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
2,4-Dichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
2-Methylnaphthalene	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
4-Chloro-3-methylphenol	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
4-Methylphenol	NS	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-7										MW-8									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																					
Acetone	50 (GV)	40	H	ND		ND		1.3	J	ND		8	J	1.7	J	NS		NS		NS	
Benzene	1.0	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
2-Butanone (MEK)	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Carbon disulfide	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Chlorobenzene	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
cis-1,2-Dichloroethene	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Ethylbenzene	5	3	J	1.1	J	2.2	J	ND		ND		ND		ND		NS		NS		NS	
Methylene chloride	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Toluene	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Vinyl chloride	2	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Xylenes (total)	5	9		7		15		ND		ND		ND		ND		NS		NS		NS	
Isopropylbenzene	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
SVOC by EPA Method 8270, (ug/L)																					
Acenaphthene	20(GV)	0.5	J M	ND		ND		ND		ND		ND		ND		NS		NS		NS	
Acenaphthene	50 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Anthracene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Benz(a)anthracene	ND	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Benzo(a)pyrene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Benzo(b)fluoranthene	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Benzo(k)fluoranthene	50 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Carbazole	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Diethyl phthalate	50	22		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Di-n-butyl phthalate	50 (GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Fluoranthene	50(GV)	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Fluorene	50(GV)	0.5	J H	ND		ND		ND		ND		ND		ND		NS		NS		NS	
Naphthalene	10	**15**		4	J	**11**		ND		ND		ND		ND		NS		NS		NS	
Pentachlorophenol	1	**3**	**J**	ND		ND		ND		ND		ND		ND		NS		NS		NS	
Phenanthrene	50(GV)	ND		ND		0.57	J	ND		ND		ND		ND		NS		NS		NS	
Phenol	1.0	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Pyrene	50.0	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
2,4,5-Trichlorophenol	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
2,4,6-Trichlorophenol	NA	2	J	ND		ND		ND		ND		ND		ND		NS		NS		NS	
2,4-Dichlorophenol	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
2-Methylnaphthalene	NA	3	J	ND		ND		ND		ND		ND		ND		NS		NS		NS	
4-Chloro-3-methylphenol	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
4-Methylphenol	NS	4	J	ND		ND		ND		ND		ND		ND		NS		NS		NS	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-9										OFF33							
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		Feb/March 2006		Apr-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)																			
Acetone	50 (GV)	ND		ND		NS		NS		NS		ND		ND		1.5	J	1.5	J
Benzene	1.0	ND		ND		NS		NS		NS		ND		ND		ND		ND	
2-Butanone (MEK)	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Carbon disulfide	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Chlorobenzene	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Ethylbenzene	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Methylene chloride	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Toluene	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Vinyl chloride	2	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Xylenes (total)	5	ND		ND		NS		NS		NS		ND	J	ND		ND		ND	
Isopropylbenzene	5	ND		ND		NS		NS		NS		ND	J	ND		ND		ND	
SVOC by EPA Method 8270, (ug/L)																			
Acenaphthene	20(GV)	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Acenaphthene	50 (GV)	ND		ND		NS		NS		NS		ND		0.65	J	ND		ND	
Anthracene	0.002 (GV)	ND		ND		NS		NS		NS		ND		**1.9**	J	ND		ND	
Benz(a)anthracene	ND	ND		ND		NS		NS		NS		ND		**1.5**	J	ND		ND	
Benzo(a)pyrene	0.002 (GV)	ND		ND		NS		NS		NS		ND		**2**	J	ND		ND	
Benzo(b)fluoranthene	NA	ND		ND		NS		NS		NS		ND		0.85	J	ND		ND	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		NS		NS		NS		ND		**0.96**	J	ND		ND	
Benzo(k)fluoranthene	50 (GV)	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Carbazole	5	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Diethyl phthalate	50	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Di-n-butyl phthalate	50 (GV)	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Fluoranthene	50(GV)	ND		ND		NS		NS		NS		ND		3.5	J	ND		ND	
Fluorene	50(GV)	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Naphthalene	10	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Pentachlorophenol	1	ND		ND		NS		NS		NS		ND	J	ND		ND		ND	
Phenanthrene	50(GV)	ND		ND		NS		NS		NS		ND		2.4	J	ND		ND	
Phenol	1.0	ND		ND		NS		NS		NS		ND		ND		ND		ND	
Pyrene	50	ND		ND		NS		NS		NS		ND		3.2	J	ND		ND	
2,4,5-Trichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
2,4,6-Trichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
2,4-Dichlorophenol	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
2-Methylnaphthalene	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
4-Chloro-3-methylphenol	NA	ND		ND		NS		NS		NS		ND		ND		ND		ND	
4-Methylphenol	NS	ND		ND		NS		NS		NS		ND		ND		ND		ND	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	OFF35							
Date Sampled		Feb/March 2006		Apr-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOC by EPA Method 8260, (ug/L)									
Acetone	50 (GV)	ND	J	ND		1.1	J	1.1	J
Benzene	1.0	ND		ND		ND		ND	
2-Butanone (MEK)	NA	ND		ND		ND		ND	
Carbon disulfide	NA	ND		ND		ND		ND	
Chlorobenzene	5	ND		ND		ND		ND	
cis-1,2-Dichloroethene	5	ND		ND		ND		ND	
Ethylbenzene	5	ND		ND		ND		ND	
Methylene chloride	5	ND		ND		ND		ND	
Toluene	5	ND		ND		ND		ND	
Vinyl chloride	2	ND		ND		ND		ND	
Xylenes (total)	5	ND		ND		ND		ND	
Isopropylbenzene	5	ND		ND		ND		ND	
SVOC by EPA Method 8270, (ug/L)									
Acenaphthene	20(GV)	ND		ND		ND		ND	
Acenaphthene	50 (GV)	ND		ND		ND		ND	
Anthracene	0.002 (GV)	ND		ND		ND		ND	
Benz(a)anthracene	ND	ND		ND		ND		ND	
Benzo(a)pyrene	0.002 (GV)	ND		ND		ND		ND	
Benzo(b)fluoranthene	NA	ND		ND		ND		ND	
Benzo(g,h,i)perylene	0.002 (GV)	ND		ND		ND		ND	
Benzo(k)fluoranthene	50 (GV)	ND		ND		ND		ND	
Carbazole	5	ND		ND		ND		ND	
Diethyl phthalate	50	ND		ND		ND		ND	
Di-n-butyl phthalate	50 (GV)	1	J	ND		ND		ND	
Fluoranthene	50(GV)	ND		ND		ND		ND	
Fluorene	50(GV)	ND		ND		ND		ND	
Naphthalene	10	ND		ND		ND		ND	
Pentachlorophenol	1	ND	J	ND		ND		ND	
Phenanthrene	50(GV)	ND		ND		ND		ND	
Phenol	1.0	ND		ND		ND		ND	
Pyrene	50	ND		ND		ND		ND	
2,4,5-Trichlorophenol	NA	ND		ND		ND		ND	
2,4,6-Trichlorophenol	NA	ND		ND		ND		ND	
2,4-Dichlorophenol	NA	ND		ND		ND		ND	
2-Methylnaphthalene	NA	ND		ND		ND		ND	
4-Chloro-3-methylphenol	NA	ND		ND		ND		ND	
4-Methylphenol	NS	ND		ND		ND		ND	

(1) TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
Based on Water Class GA, Source of Drinking Water (Groundwater).

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Bold indicates value exceeded Standard Guidance Value.

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July 2008 analytical data is the only data not subjected to data validation via DUSR.

Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	B-2		B-2R								B-3									
Date Sampled		May-02		Mar-06 [2]		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPA Method 8081, (ug/L)																					
Aldrin	ND	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
alpha-BHC	0.01	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
beta-BHC	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
gamma-BHC (Lindane)	0.05	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
delta-BHC	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
gamma-Chlordane	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
4,4'-DDE	0.2	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Endosulfan I	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Endrin aldehyde	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Heptachlor	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Heptachlor epoxide	0.03	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Metals by EPA Methods 6010 and 9012, (ug/L)																					
Aluminum	2,000	ND		ND		NA		NA		NA		210	B	ND		NA		NA		NA	
Antimony	3	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Arsenic	25	**100**		**630**		**470**		**550**		**822**		**494**		**263**		**190**		**280**		**236**	
Barium	1,000	36.5		ND		NA		NA		NA		14.1		53.7		NA		NA		NA	
Calcium	NA	112,000		77,500		NA		NA		NA		79,100		146,000		NA		NA		NA	
Chromium	50	3.9	B	ND		ND		5.7		ND		2.6	B	3.6	B	4.9	J	5.7	J	2.3	J
Cobalt	NA	1.7	B	ND		NA		NA		NA		ND		3	B	NA		NA		NA	
Copper	200	1.5	B	ND		NA		NA		NA		2.4	B	ND		NA		NA		NA	
Cyanide, Total	200	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Iron	300	**2,430**		**727**		**960**		**1,190**		**1,700**		**1,090**		**4,480**		**4,000**		**4,900**		**2,640**	
Lead	25	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Magnesium	35,000 (GV)	7,740		19,300		19,200		13,600		14,200		8,780		15,200		14,300		15,300		14,100	
Manganese	300	44.7		167		NA		184		200		160		258		NA		66		93	
Nickel	100	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Potassium	NA	1250		4,160		NA		NA		NA		3,820		1,870		NA		NA		NA	
Selenium	10	ND		6.22		NA		NA		NA		ND		ND		NA		NA		NA	
Sodium	20,000	6,600		**50,600**		**36,900**		**18,600**		**27,500**		**98,000**		11,100		8,300		7,500		8,390	
Vanadium	NA	ND		ND		NA		NA		NA		ND		2	B	NA		NA		NA	
Zinc	2,000 (GV)	88.8		19.6		NA		NA		NA		ND		50		NA		NA		NA	

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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-10										MW-11									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)																					
Aldrin	ND	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
alpha-BHC	0.01	ND		**0.1300**		**0.043**	NJ	ND		ND		ND		ND		NS		NS		NS	
beta-BHC	0.04	ND		0.0240	J	ND		ND		0.017	J	ND		ND		NS		NS		NS	
gamma-BHC (Lindane)	0.05	ND		0.0091	J	0.068	NJ	0.01	J	ND		ND		ND		NS		NS		NS	
delta-BHC	0.04	ND		0.0028	J	0.0094	NJ	0.013	J	ND		ND		ND		NS		NS		NS	
gamma-Chlordane	NA	ND		ND		0.3	NJ	ND		ND		ND		ND		NS		NS		NS	
4,4'-DDE	0.2	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Endosulfan I	NA	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Endrin aldehyde	5	0.0690	J	ND		ND		ND		ND		ND		ND		NS		NS		NS	
Heptachlor	0.04	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Heptachlor epoxide	0.03	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Metals by EPD Methods 6010 and 9012, (ug/L)																					
Aluminum	2,000	1,360		100	B	NA		NA		NA		525		ND		NA		NA		NA	
Antimony	3	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Arsenic	25	8	B	**38.8**	**B**	**91**		**61**		**69**		**401**		**178**		**250**		**690**		**219**	
Barium	1,000	93.8		86.2		NA		NA		NA		177		197		NA		NA		NA	
Calcium	NA	222,000		244,000		NA		NA		NA		95,300		116,000		NA		NA		NA	
Chromium	50	**148**		49.5		40		46		31.2		15.2		ND		ND		6.8	J	0.67	J
Cobalt	NA	4.3	B	3	B	NA		NA		NA		ND		ND		NA		NA		NA	
Copper	200	2.1	B	ND		NA		NA		NA		2.3	B	ND		NA		NA		NA	
Cyanide, Total	200	195		131		NA		NA		NA		ND		10.4		NA		NA		NA	
Iron	300	**3,040**		**12,200**		**6,200**		**4,700**		**4,890**		**3,510**		**7,820**		**10,100**		**21300**		**7,650**	
Lead	25	ND		ND		NA		NA		NA		16.3		ND		NA		NA		NA	
Magnesium	35,000 (GV)	**72,800**		**77,000**		**81,600**		**41,100**		**46,700**		8,740		10,700		8,600		11000		10,500	
Manganese	300	**327**		286		NA		150		209		**345**		224		NA		1400		**532**	
Nickel	100	2.3	B	ND		NA		NA		NA		ND		ND		NA		NA		NA	
Potassium	NA	16,600		10,000		NA		NA		NA		1,780		926		NA		NA		NA	
Selenium	10	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Sodium	20,000	**253,000**		**98,800**		**62,100**		**40,500**		**42,000**		14,400		8,880		10,600		14200		10,500	
Vanadium	NA	5	B	33.9		NA		NA		NA		ND		ND		NA		NA		NA	
Zinc	2,000 (GV)	ND		ND		NA		NA		NA		19.1	B	ND		NA		NA		NA	

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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-12										MW-14									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)																					
Aldrin	ND	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
alpha-BHC	0.01	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
beta-BHC	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
gamma-BHC (Lindane)	0.05	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
delta-BHC	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
gamma-Chlordane	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
4,4'-DDE	0.2	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Endosulfan I	NA	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Endrin aldehyde	5	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Heptachlor	0.04	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Heptachlor epoxide	0.03	ND		ND		NS		NS		NS		ND		ND		NS		NS		NS	
Metals by EPD Methods 6010 and 9012, (ug/L)																					
Aluminum	2,000	415	B	ND		NA		NA		NA		383	B	228	B	NA		NA		NA	
Antimony	3	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Arsenic	25	**437**		**139**		**220**		**680**		**340**		ND		ND		**25**		ND		ND	
Barium	1,000	123		122		NA		NA		NA		47.8		17.4		NA		NA		NA	
Calcium	NA	76,700		105,000		NA		NA		NA		156,000		119,000		NA		NA		NA	
Chromium	50	9.2	B	8.2	B	5.8	J	5	J	0.66	J	2.5	B	ND		3.3	J	2.8	J	ND	
Cobalt	NA	ND		ND		NA		NA		NA		ND		1.8	B	NA		NA		NA	
Copper	200	2.2	B	ND		NA		NA		NA		ND		ND		NA		NA		NA	
Cyanide, Total	200	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Iron	300	**9,500**		**994**		**1,600**		**4,900**		**468**		**332**		193	B	**930**		**340**		33.5	
Lead	25	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Magnesium	35,000 (GV)	14,400		33,800		16,000		19,600		24,300		9,450		8,210		8,000		7,000		8,140	
Manganese	300	**504**		**365**		NA		120		186		206		**367**		NA		**1,200**		223	
Nickel	100	2.3	B	2	B	NA		NA		NA		ND		ND		NA		NA		NA	
Potassium	NA	17,000		10,500		NA		NA		NA		1,770		931		NA		NA		NA	
Selenium	10	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Sodium	20,000	**88,400**		**182,000**		**79,600**		**47,000**		**27,300**		8,870		12,200		8,600		1,900		9,420	
Vanadium	NA	1.4	B	2.4	B	NA		NA		NA		ND		2.6	B	NA		NA		NA	
Zinc	2,000 (GV)	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	

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Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-5										MW-6									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)																					
Aldrin	ND	ND		ND		NS		NS		NS		ND		**0.0160**	J	ND		ND		ND	
alpha-BHC	0.01	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
beta-BHC	0.04	ND		ND		NS		NS		NS		ND		0	J	ND		ND		ND	
gamma-BHC (Lindane)	0.05	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
delta-BHC	0.04	ND		ND		NS		NS		NS		ND		0.0023	J	ND		ND		ND	
gamma-Chlordane	NA	ND		ND		NS		NS		NS		ND		0.0230	J	ND		ND		ND	
4,4'-DDE	0.2	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
Endosulfan I	NA	ND		ND		NS		NS		NS		ND		0.0069	J	ND		ND		ND	
Endrin aldehyde	5	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
Heptachlor	0.04	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
Heptachlor epoxide	0.03	ND		ND		NS		NS		NS		ND		ND		ND		ND		ND	
Metals by EPD Methods 6010 and 9012, (ug/L)																					
Aluminum	2,000	258	B	857		NA		NA		NA		778		ND		NA		NA		NA	
Antimony	3	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Arsenic	25	18	B	ND		17	J	**40**		**48.3**		ND		**26.1**	**B**	ND		ND		4.9	J
Barium	1,000	44.4		39.5		NA		NA		NA		23.3		66.2		NA		NA		NA	
Calcium	NA	77,000		134,000		NA		NA		NA		40,700		118,000		NA		NA		NA	
Chromium	50	4.1	B	1.4	B	3.2	J	3.9	J	3.1	J	3.2	B	2.7	B	2.7	J	3.2	J	0.9	J
Cobalt	NA	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Copper	200	2.1	B	ND		NA		NA		NA		ND		ND		NA		NA		NA	
Cyanide, Total	200	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Iron	300	**1,210**		**1,160**		**3,300**		**3,800**		**2,720**		**806**		**2,570**		**3,000**		**4,900**		**1,180**	
Lead	25	9	B	ND		NA		NA		NA		ND		ND		NA		NA		NA	
Magnesium	35,000 (GV)	8,170		12,400		14,700		15,300		15,400		4170		19,300		10,800		13,700		13,800	
Manganese	300	**343**		89.9		NA		**510**		**410**		33.8		**522**		NA		180		215	
Nickel	100	2.2	B	ND		NA		NA		NA		ND		ND		NA		NA		NA	
Potassium	NA	4,440		4,160		NA		NA		NA		4,740		5,960		NA		NA		NA	
Selenium	10	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Sodium	20,000	**76,200**		**38,600**		**76,500**		**72,400**		**106,000**		**52,000**		**97,800**		**28,000**		**63,300**		**75,200**	
Vanadium	NA	ND		4	B	NA		NA		NA		3.7	B	ND		NA		NA		NA	
Zinc	2,000 (GV)	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	

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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-7										MW-8									
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		May-02		Mar-06		May-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)																					
Aldrin	ND	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
alpha-BHC	0.01	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
beta-BHC	0.04	ND		ND		0.038	NJ	0.02	J	0.033	J P	ND		ND		NS		NS		NS	
gamma-BHC (Lindane)	0.05	ND		0.0091	J	ND		ND		ND		ND		ND		NS		NS		NS	
delta-BHC	0.04	ND		0.0046	J	0.0034	NJ	0.0071	J	0.0076	J P	ND		ND		NS		NS		NS	
gamma-Chlordane	NA	ND		0.0150	J	0.016	NJ	ND		ND		ND		ND		NS		NS		NS	
4,4'-DDE	0.2	0.0710	J	0.0150	J	ND		ND		ND		ND		ND		NS		NS		NS	
Endosulfan I	NA	0.1100		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Endrin aldehyde	5	ND		ND		ND		ND		ND		ND		ND		NS		NS		NS	
Heptachlor	0.04	ND		ND		0.012	NJ	ND		ND		ND		ND		NS		NS		NS	
Heptachlor epoxide	0.03	ND		0.0071	J	ND		ND		ND		ND		ND		NS		NS		NS	
Metals by EPD Methods 6010 and 9012, (ug/L)																					
Aluminum	2,000	ND		ND		NA		NA		NA		1,210		ND		NA		NA		NA	
Antimony	3	ND		ND		NA		NA		NA		**54.9**		**15.4**	**B**	NA		NA		NA	
Arsenic	25	ND		**48.2**		**63**		**89**		**101**		**4,780**		**958**		**5,100**		**1,100**		**309**	
Barium	1,000	313		67.3		NA		NA		NA		49.4		32.3		NA		NA		NA	
Calcium	NA	396,000		81,300		NA		NA		NA		108,000		125,000		NA		NA		NA	
Chromium	50	21.8	B	1.9	B	ND		ND		0.82	J	13.4		1.7	B	2.1	J	1.4	J	0.71	J
Cobalt	NA	33,900		3.9	B	NA		NA		NA		2.9	B	ND		NA		NA		NA	
Copper	200	**70,000**		ND		NA		NA		NA		7.3	B	ND		NA		NA		NA	
Cyanide, Total	200	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Iron	300	**7,420**		**26,200**		**18,500**		**17,000**		**20,400**		**1,340**		**632**		**3,200**		**2,100**		**2,600**	
Lead	25	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Magnesium	35,000 (GV)	ND		14,400		11,500		12,800		9,220		4,970		9,020		9,100		8,800		9,950	
Manganese	300	ND		**2,420**		NA		**1,500**		**1,330**		197		**723**		NA		**550**		**997**	
Nickel	100	18	B	2.9	B	NA		NA		NA		8.9	B	5.1	B	NA		NA		NA	
Potassium	NA	61,100		6,030		NA		NA		NA		22500		19,900		NA		NA		NA	
Selenium	10	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	
Sodium	20,000	**3,910,000**		**122,000**		**114,000**		**94,300**		**91,000**		**345,000**		**117,000**		**83,400**		**79,900**		**95,500**	
Vanadium	NA	ND		1.6	B	NA		NA		NA		8.6		11.3		NA		NA		NA	
Zinc	2,000 (GV)	ND		ND		NA		NA		NA		ND		ND		NA		NA		NA	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
Based on Water Class GA, Source of Drinking Water (Groundwater).

[2] Replacement monitoring well. Analysis conducted by Upstate Laboratories, Inc.

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NS is Not Sampled
ND is Not Detected.
"Qual" denotes Laboratory and Validators Qualifiers.
Bold indicates value exceeded Standard Guidance Value.
VOCs analyzed using EPA Method 8260. SVOCs analyzed using EPA Method 8270.
Pesticides/PCBs analyzed using EPA Method 8082.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	MW-9										OFF33							
Date Sampled		May-02		Mar-06		May-07		Jul-08		Jul-10		Feb/March 2006		Apr-07		Jul-08		Jul-10	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)																			
Aldrin	ND	ND		ND		NS		NS		NS		NS		NS		NS		NS	
alpha-BHC	0.01	ND		ND		NS		NS		NS		NS		NS		NS		NS	
beta-BHC	0.04	ND		ND		NS		NS		NS		NS		NS		NS		NS	
gamma-BHC (Lindane)	0.05	ND		ND		NS		NS		NS		NS		NS		NS		NS	
delta-BHC	0.04	ND		ND		NS		NS		NS		NS		NS		NS		NS	
gamma-Chlordane	NA	ND		ND		NS		NS		NS		NS		NS		NS		NS	
4,4'-DDE	0.2	ND		ND		NS		NS		NS		NS		NS		NS		NS	
Endosulfan I	NA	ND		ND		NS		NS		NS		NS		NS		NS		NS	
Endrin aldehyde	5	ND		ND		NS		NS		NS		NS		NS		NS		NS	
Heptachlor	0.04	ND		ND		NS		NS		NS		NS		NS		NS		NS	
Heptachlor epoxide	0.03	ND		ND		NS		NS		NS		NS		NS		NS		NS	
Metals by EPD Methods 6010 and 9012, (ug/L)																			
Aluminum	2,000	436	B	ND		NA		NA		NA		147		ND		420	J	NA	
Antimony	3	ND		ND		NA		NA		NA		ND		ND		ND		NA	
Arsenic	25	ND		ND		ND		ND		ND		ND		ND	J	5	J	ND	
Barium	1,000	31.4		30.3		NA		NA		NA		ND		80		43		NA	
Calcium	NA	146,000		185,000		NA		NA		NA		71,600		127,000		81,100		NA	
Chromium	50	5	B	10.9		25		23		9.2		35		16		6	J	1	J
Cobalt	NA	ND		ND		NA		NA		NA		ND		ND		ND		NA	
Copper	200	1.5	B	ND		NA		NA		NA		ND		ND		5.8	J	NA	
Cyanide, Total	200	ND		ND		NA		NA		NA		NA		NA		NA		NA	
Iron	300	**570**		ND		ND		67	J	50.3	J	**1,360**		ND	J	**2,500**		**2,340**	
Lead	25	ND		ND		NA		NA		NA		ND		8.2	J	**44**		**NA**	
Magnesium	35,000 (GV)	14,400		18,800		14,500		13,500		12,300		5,900		11,900		6,900		6,000	
Manganese	300	28.8		ND		NA		ND		2.4	J	263		9.8	J	64		60.2	J
Nickel	100	ND		ND		NA		NA		NA		ND		ND		ND		NA	
Potassium	NA	4,250		2,750		NA		NA		NA		2,260	J	3,800		4,500		NA	
Selenium	10	ND		ND		NA		NA		NA		ND	J	ND		ND		NA	
Sodium	20,000	**21,300**		15,000		14,200		**29,400**		**24,800**		16,200		**40,500**		**26,600**		9,380	
Vanadium	NA	ND		ND		NA		NA		NA		ND		0.81	J	3.3	J	NA	
Zinc	2,000 (GV)	ND		ND		NA		NA		NA		ND		73		58		NA	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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Table 1
Groundwater Analytical Results (Detections Only)
Independent Leather
C.T. Male Project No. 01.7293

Sample ID	NYSDEC Water Quality Standard [1]	OFF35							
Date Sampled		Feb/March 2006		Apr-07		Jul-08		Jul-08	
Parameter		Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides by EPD Method 8081, (ug/L)									
Aldrin	ND	NS		NS		NS		NS	
alpha-BHC	0.01	NS		NS		NS		NS	
beta-BHC	0.04	NS		NS		NS		NS	
gamma-BHC (Lindane)	0.05	NS		NS		NS		NS	
delta-BHC	0.04	NS		NS		NS		NS	
gamma-Chlordane	NA	NS		NS		NS		NS	
4,4'-DDE	0.2	NS		NS		NS		NS	
Endosulfan I	NA	NS		NS		NS		NS	
Endrin aldehyde	5	NS		NS		NS		NS	
Heptachlor	0.04	NS		NS		NS		NS	
Heptachlor epoxide	0.03	NS		NS		NS		NS	
Metals by EPD Methods 6010 and 9012, (ug/L)									
Aluminum	2,000	726		< 500		< 500		NA	
Antimony	3	ND		ND		ND		NA	
Arsenic	25	ND		ND	J	14	J	24.6	
Barium	1,000	ND		87		29		NA	
Calcium	NA	131,000		187,000		96,700		NA	
Chromium	50	11.5		**82**		**60**		9	
Cobalt	NA	ND		2.8	J	ND		NA	
Copper	200	ND		4.3	J	3.6	J	NA	
Cyanide, Total	200	NA		NA		NA		NA	
Iron	300	**6,780**		**8,100**		**5,500**		**5,800**	
Lead	25	< 3		ND		ND		NA	
Magnesium	35,000 (GV)	21,700		28,900		18,000		18,300	
Manganese	300	**359**		**1,100**		270		223	
Nickel	100	ND		ND		ND		NA	
Potassium	NA	1,870	J	2,600		1,600		NA	
Selenium	10	6.83	J	ND		ND		NA	
Sodium	20,000	19,700		**20,500**		18,200		19,100	
Vanadium	NA	ND		ND		ND		NA	
Zinc	2,000 (GV)	ND		28	J	14	J	NA	

[1] TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, NYSDEC, June 1998 and Addendum, April 2000.
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