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January 7, 2011

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New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

**Subject: 2010 Leachate and Off-Site Groundwater Extraction Report
Dewey Loeffel Landfill (Site No. 4-42-006)
Work Assignment D004444-5.2
MACTEC Engineering & Consulting, P.C. Project No. 3612062062**

Mr. Trad:

MACTEC Engineering and Consulting, P.C. (MACTEC) has prepared this annual report to summarize leachate and off-site extraction well data generated at the Dewey Loeffel Landfill Site in 2010. The following information is provided:

- 2010 leachate and off-site groundwater extraction quantities, costs and disposal information;
- tabulated analytical data for leachate and off-site extraction well groundwater samples; and
- summary of 2010 Site management (SM) monitoring activities (Site inspection, well survey, water level survey).

The leachate collection system at the Site consists of a series of pipes beneath the western portion of the landfill. The pipes drain to a leachate collection tank (also beneath the surface of the landfill). Leachate is routinely pumped from the collection tank and removed via tankers for off-site disposal.

The off-site groundwater extraction system is located to the south of the Site and consists of three (3) bedrock extraction wells (EW-1, EW-2 and EW-3). The extraction well details are provided below. The extraction well network is situated in a geologic fault in the bedrock which extends from the north of the Site, beneath the Site, and to the south beyond Central Nassau Road. Historical groundwater contamination migrating from the Site has been evidenced by installation of wells, geophysical investigations, and chemical analysis (ROD, 2001).

EW-1
Total Depth: 200' (Approx El: 463.7')
Bedrock Interface: 64.5' (Approx. El: 599.7')
Solid PVC Riser Interval: 0-68' (Approx. El: 665.25' to 597.2')
Screen Interval: 65' to 200' (Approx El: 597.2' to 463.7')
Pump Set: 481.5'
EW-2
Total Depth: 240' (Approx El: 420.53')
Bedrock Interface: 68' (Approx. El: 592.53)
Solid PVC Riser Interval: 0-78' (Approx. El: 663.53' to 582.53')
Screen Interval: 78' to 240' (Approx El: 582.53' to 420.53')
Pump Set: 485'
EW-3
Total Depth: 260' (Approx El: 403.1')
Bedrock Interface: 45' (Approx. El: 618.2')
Solid PVC Riser Interval: 0-55' (Approx. El: 664.43' to 623.1')
Screen Interval: 55' to 260' (Approx El: 623.1' to 403.1')
Pump Set: 431.5'
Extraction Well information provided by the NYSDEC: Installed per D&B plans for the Site. As-built summary of utilities installed in extraction wells by PES:

During 2010, the extraction system operated from April 5, 2010 through November 2, 2010, at which time it was shut-down for the winter.

Leachate and Off-Site Groundwater Quantities, Associated Costs, and T&D Firms:

The tables below summarize leachate and off-site groundwater quantities through November 2010.

COMBINED: LEACHATE / EXTRACTION WELLS	2010¹
Quantity (gallons)	1,418,229
No Truck Loads	278
Disposal Cost (\$)	\$709,115

LEACHATE	2010¹
Quantity (gallons)	342,848
No Truck Loads	72
Disposal Cost (\$)	\$171,424
Transporter	1/1/10 thru 2/28/10 Rollex Transport, LLC 3/1/10 thru 11/24/10 SJ (US Environmental).
Receiver	1/1/10 thru 2/28/10 Newalta Industrial Services 3/1/10 thru 11/24/10 Clean Harbors, MD

OFF-SITE EXTRACTION WELLS	2010 ¹
Quantity (gallons)	1,075,381
No Truck Loads	222
Disposal Cost (\$)	\$537,691
Transporter	1/1/10 thru 2/28/10 Rollex Transport, LLC 3/1/10 thru 11/24/10 SJ (US Environmental).
Receiver	1/1/10 thru 2/28/10 Newalta Industrial Services 3/1/10 thru 11/24/10 Clean Harbors, MD

¹ Values shown represent information from January 2010 through November 24, 2010.

The leachate volume removed in 2010 (342,848 gallons through November 24th) is slightly lower than the total volume removed during 2009 (417,455 gallons) and comparable to the average volume removed from 2002 through 2008 (334,136). The extracted groundwater volume in 2010 increased from 846,836 gallons in 2009 to 1,075,381 gallons in 2010, an increase of approximately 27%. This increase is likely due to the installation of improved pumping equipment, particularly at extraction well EW-2.

Analytical Data and Qualitative Assessment:

Table 1 summarizes available historic leachate and off-site extraction groundwater data provided by the New York State Department of Environmental Conservation (NYSDEC). Results shown in this table include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and inorganics that have historically been detected in leachate and/or groundwater samples.

Leachate: In general, the compounds and relative magnitude of the respective concentrations of organic contaminants in leachate samples have remained consistent since 1985. However, there is an apparent upward trend in all reported organic compounds (VOCs and SVOCs) with the results from November 2010 for each compound representing the historic maximum result from the available data.

Extraction Wells: Extraction well data is limited to samples from 2008, 2009 and 2010 and there are not a sufficient number of samples to evaluate long-term trends. However, the 2010 samples generally exhibit the lowest concentrations of organic compounds (VOCs and SVOCs) in samples from the three years. Groundwater from EW-2, located between EW-1 and EW-3 exhibits the highest level of contaminants, with TCE reported at the highest concentration (35,000 ug/L). At EW-1 (furthest extraction well from the Site), TCE is reported at 11,000 ug/L. At EW-3, benzene is the VOC with the highest reported concentration (15,000 ug/L).

Comparison of Leachate and Extraction Well Results: In general, the specific organic contaminants detected and the general magnitude of results is comparable between the water collected from the leachate tank and from the extraction wells. However, while the levels of detected organic compounds in leachate are comparable to those reported in leachate from the prior two years, the 2010 results from the extraction wells are generally lower than those from wells from the prior two years. Since there are only a few years of extraction well data, comparing differences in the leachate and well data would represent only a preliminary comparison. MACTEC infers that increased groundwater extraction may be causing the lower observed

concentrations by extracting water from a larger area of influence and/or from portions of the bedrock aquifer with lower concentrations of Site contaminants. A few observations made during the data review include:

- TCE is reported in the 2010 extraction well samples at concentrations ranging from 680 to 35,000 ug/L. TCE is not reported in the leachate tank sample, however the sample has a higher reporting limit (i.e., TCE may be present in leachate at a concentration below 2500 ug/L).
- Benzene, toluene, and xylenes concentrations in leachate are higher than those reported in water from the extraction wells.
- PCB Aroclor 1260 has been detected twice in leachate and has not been detected in water from the three extraction wells.
- Contaminants were not detected in groundwater collected from monitoring well OMW-216 (located upgradient from the extraction wells and presumed outside of the bedrock fracture zone as evidenced by lack of detected contaminants).
- VOCs were detected in monitoring well DB-10 (total VOCs at 203 ug/L) located downgradient of the extraction wells, but at much lower concentrations than that detected in the extraction wells (EW-1 total VOCs at 13,770 ug/L; EW-2 total VOCs at 51,800 ug/L; and EW-3 total VOCs at 15,950 ug/L). Unlike the extractions wells, SVOCs were not detected in groundwater collected from DB-10.

Summary of Site Management Activities:

In 2010, MACTEC performed periodic monitoring at the landfill. Activities included:

- Conducting water level monitoring events prior to extraction system start-up, after winter shutdown, and at monthly intervals during the operating season; and
- Preparation of plots showing interpreted water level contours for shallow and deep bedrock system to assess changes based on extraction pumping.

A Site Management Report for the First Quarter of 2010 (MACTEC, 2010). This report assessed landfill conditions and provided recommendations for future Site Management actions. As part of the review, MACTEC inspected the landfill cover system, storm water collection and drainage system, and leachate collection system. An inspection of on-site and selected off-site monitoring wells was also conducted to document well integrity.

Groundwater Elevations: Water level depth measurements and water surface elevations in monitoring wells were recorded and are provided in Table 2. Figures 1 through 4 present interpretive groundwater contours in selected shallow bedrock monitoring wells and in deeper monitoring wells for the last two measurement events in November 2010. Measurements taken on November 2, 2010 were collected after over seven (7) months of active groundwater extraction. The measurements taken on November 30, 2010 were collected after the system had been shut-down for 28 days and therefore reflect some rebound of aquifer water levels.

Apparent initial water level response to pumping can be seen by comparing elevations on Table 2 from April 1, 2010 (pre-pumping) and April 29, 2010 (after 28 days of system operation). For example, well OMW-202, located downgradient from extraction well EW-3 showed a decline in water level elevation of over 11 feet once the system was turned on. Most of the wells depicted on the shallow and deep groundwater plots show water level declines of more than five feet after system start-up. Upgradient and lateral wells located along Mead Road (OMW-108, OMW-206,

OPZ-217) show only slight water level changes in April and are therefore inferred to represent general control conditions between these first two survey events in 2010.

The measurements taken on November 30, 2010, after system shut-down show recovery of water levels with the greatest rebound in wells that are located the closest to the extraction wells (e.g. OMW-202, OMW-205, OMW-216 and PB-2). Although the interpreted contours show an interpreted flow direction the west, southwest, bedrock studies and characterizations implemented at the Site indicate bedrock groundwater migrates in a more southerly direction.

Future Site Management Activities:

SM activities consistent with 2010 are planned for 2011. MACTEC will continue to provide leachate and extraction water T&D oversight support, monthly water level surveys during active off-site extraction system operation, and Site inspections per NYSDEC direction.

A more detailed off-site extraction system performance evaluation may also be warranted to assess the potential for optimizing the off-site groundwater extraction system. Due to the fact water levels were observed to decline and rebound quickly upon system start-up and shut-down, vertical capture of groundwater is suggested. However, a more thorough understanding of the site conceptual model with respect to groundwater flow conditions, groundwater contaminant concentrations, geophysical conditions within the fault zone, etc. would help decrease the level of uncertainty for both vertical and horizontal capture of groundwater.

Please let us know if you have any questions or need any additional information regarding the leachate and extraction well data and observations discussed above.

Sincerely,
MACTEC Engineering and Consulting, P.C.



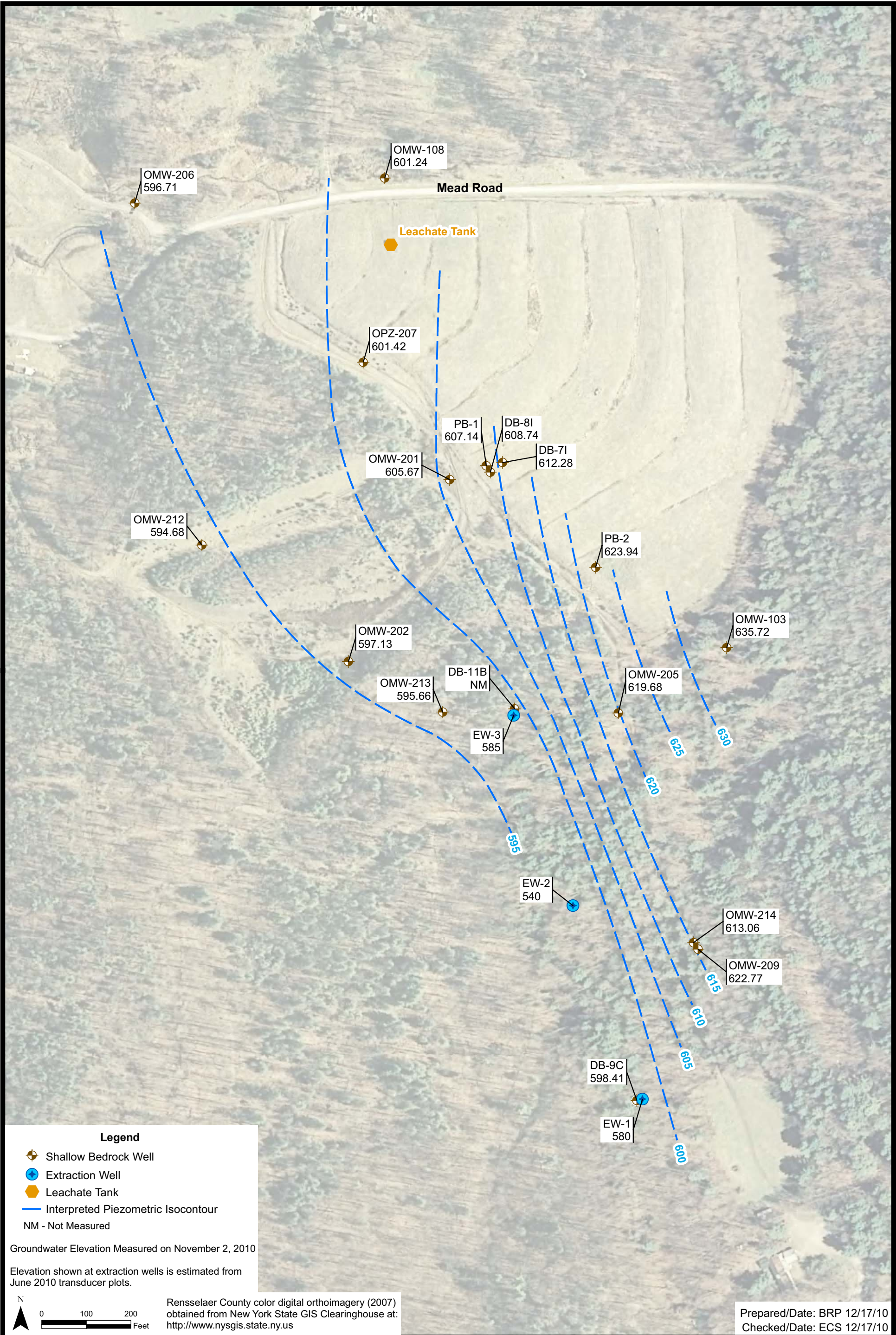
Jayme P. Connolly
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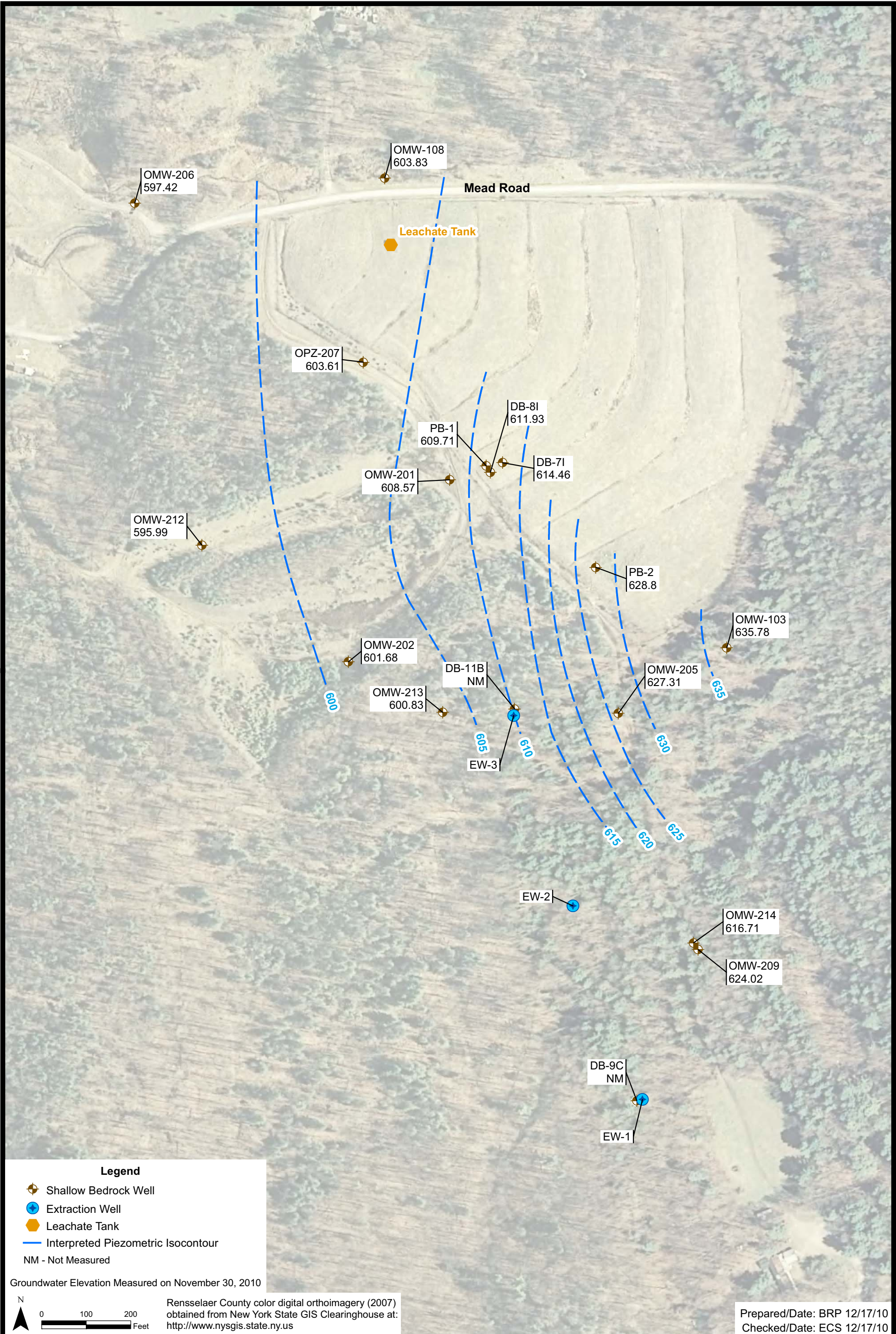
John W. Peterson
Principal Professional

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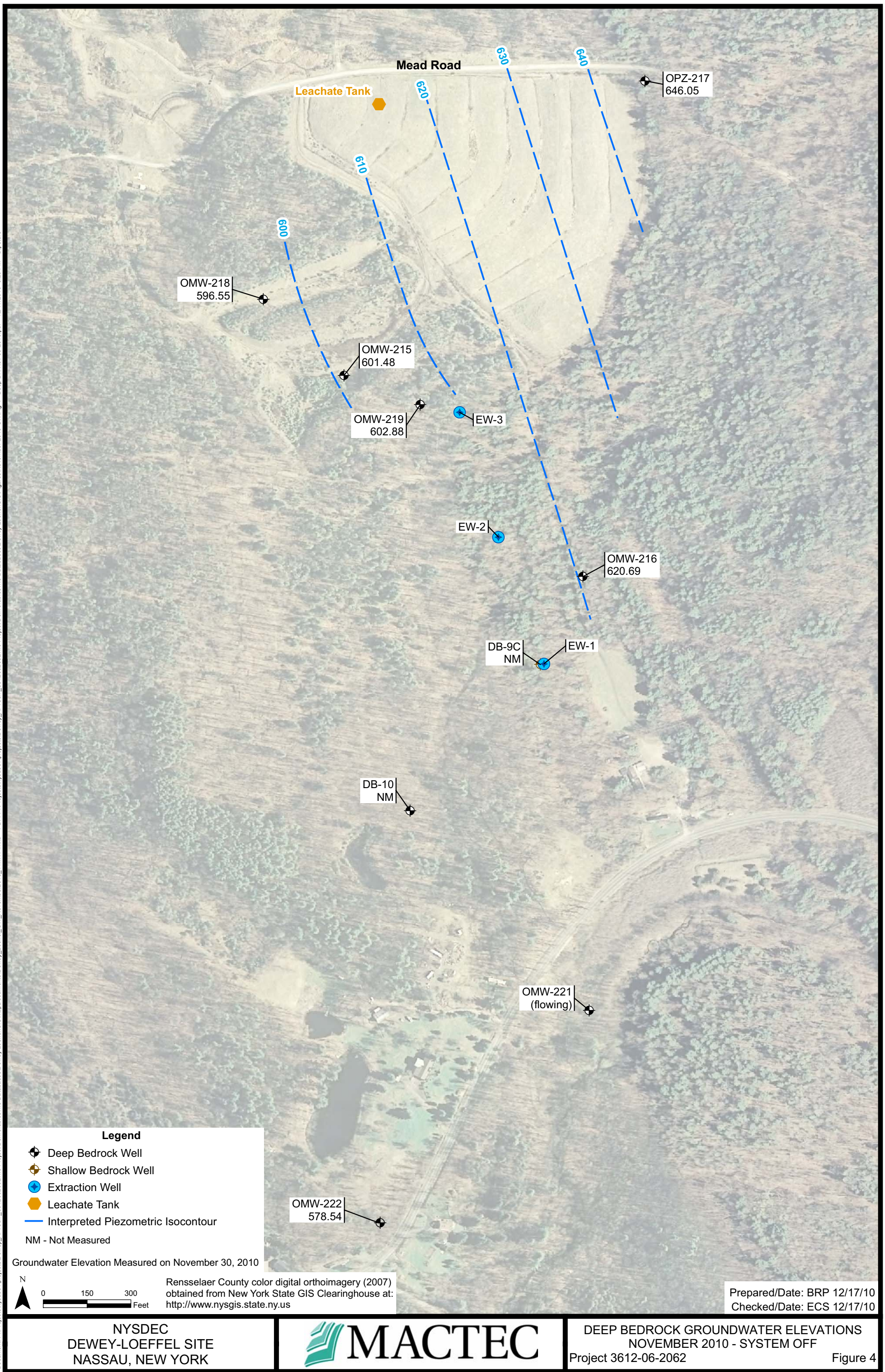


Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name Chemical Name	Leachate October-85 Leachate_U Result Qual	Leachate September-88 Leachate_U Result Qual	Leachate December-88 Leachate_U Result Qual	Leachate July-90 Leachate_U Result Qual	Leachate June-91 Leachate_B Result Qual	Leachate June-91 Leachate_M Result Qual	Leachate October-91 Leachate_C1 Result Qual	Leachate October-91 Leachate_C2 Result Qual	Leachate December-91 Leachate_C Result Qual	Leachate April-92 Leachate_U Result Qual
VOCs (ug/L)										
1,2-Dichloroethene (total)	1400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	14000	8600	16000	14000	16000	14000	4000	7200	6500 J	7900
Ethyl benzene	490	220	490 J	570	ND	ND	ND	ND	< SQL	420
Methylene chloride	ND	ND	ND	330 J	ND	ND	ND	ND	1800 B	ND
Toluene	23000	8900	18000	17000	19000	18000	5300	10000	7800 J	5000
Trichloroethene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	4600	1100	700	700	2200	3500	980	2200	2200 J	1000
SVOCs (ug/L)										
1,2-Dichlorobenzene	ND	2 J	2 J	3 J	ND	ND	ND	ND	--	ND
1,3-Dichlorobenzene	2	ND	2	2 J	ND	ND	ND	ND	--	ND
1,4-Dichlorobenzene	16	10	12	16	29	27	42	44	50	37
1,2,4-Trichlorobenzene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	ND	52	51	ND	33	100	29	28	55	38
4-Methylphenol	ND	200	220	ND	20	66	110	97	66	13
Chlorobenzene	1800	1800	3300	3000	3700	3600	1300	2400	2400 J	2500
Phenol	ND	ND	ND	ND	ND	92	27	29	140	34
PCBs (ug/L)										
Aroclor 1260	--	--	--	--	--	--	--	--	--	--
Metals (ug/L)										
Aluminum	--	--	--	--	--	--	--	--	--	--
Arsenic	--	--	--	--	--	--	--	--	--	--
Barium	--	--	--	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	--	--	--	--
Calcium	--	--	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--	--	--
Lead	--	--	--	--	--	--	--	--	--	--
Magnesium	--	--	--	--	--	--	--	--	--	--
Manganese	--	--	--	--	--	--	--	--	--	--
Potassium	--	--	--	--	--	--	--	--	--	--
Sodium	--	--	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	--	--	--	--	--	--

Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name Chemical Name	Leachate October-92 Leachate_U Result Qual		Leachate November-93 Leachate_UA Result Qual		Leachate November-93 Leachate_UB Result Qual		Leachate April-94 Leachate_U Result Qual		Leachate December-94 Leachate_U Result Qual		Leachate May-95 Leachate_U Result Qual		Leachate November-95 Leachate_U Result Qual		Leachate May-96 Leachate_U Result Qual		Leachate March-05 Leachate_U Result Qual	
VOCs (ug/L)																		
1,2-Dichloroethene (total)	ND		ND		ND		ND		ND		42		46		25		ND	
Benzene	12000		11000		9300		6000		59		6500		11000		7000		22000	
Ethyl benzene	ND		730 J		490 J		260		1.8 J		230 J		500		250		ND	
Methylene chloride	ND		ND		ND		580 B		ND		4 B		7.5		5.7		ND	
Toluene	24000		28000		17000		8500		59		2800		12000		6600		40000	
Trichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Xylenes, Total	2400		2700		1700		1200		9.1		930		1600		1100		4100	
SVOCs (ug/L)																		
1,2-Dichlorobenzene	ND		ND		ND		4.4 J		ND		5.2 J		5.3 J		8.1 J		11	
1,3-Dichlorobenzene	10		12 J		ND		9.5 J		1.3 J		10		12		38		19 J	
1,4-Dichlorobenzene	60		86		57		54		9 J		61		64		ND		90 J	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		7.2 J	
2-Methylphenol	11		170		290		81		ND		ND		11		6.6 J		120	
4-Methylphenol	45		120		160		47		ND		ND		25		8.8 J		1100 D	
Chlorobenzene	3400		3500		2800		1800		24		1900		3100		2300		8900	
Phenol	45		280		180		32		ND		ND		29		10		77	
PCBs (ug/L)																		
Aroclor 1260	--		ND		ND		ND		ND		ND		0.54 J		ND		ND	
Metals (ug/L)																		
Aluminum	--		--		--		--		--		--		--		160		1310	
Arsenic	--		--		--		--		--		--		--		39		49.4	
Barium	--		--		--		--		--		--		--		2000		2600	
Copper	--		--		--		--		--		--		--		ND		ND	
Calcium	--		--		--		--		--		--		--		140000		176000	
Iron	--		--		--		--		--		--		--		23000		39100	
Lead	--		--		--		--		--		--		--		ND		5.7	
Magnesium	--		--		--		--		--		--		--		31000		38000	
Manganese	--		--		--		--		--		--		--		18000		22900	
Potassium	--		--		--		--		--		--		--		1900		2760	
Sodium	--		--		--		--		--		--		--		35000		39600	
Thallium	--		--		--		--		--		--		--		8.5		ND	
Zinc	--		--		--		--		--		--		--		11		ND	

Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name Chemical Name	Leachate April-07 Leachate_U		Leachate September-08 Leachate		Leachate October-09 Leachate_U		Leachate Tank April-10 Leachate Tank		Leachate Tank November-10 Leachate Tank	
	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOCs (ug/L)										
1,2-Dichloroethene (total)	5400		6100		6600		5000		8400	
Benzene	22000		23000		21000		15000		24000	
Ethyl benzene	ND		ND		ND		ND		ND	
Methylene chloride	ND		ND		3000		ND		ND	
Toluene	46000		40000		48000		33000		50000	
Trichloroethene	ND		ND		ND		ND		ND	
Xylenes, Total	3800		3800		4200		4000		4600	
SVOCs (ug/L)										
1,2-Dichlorobenzene	10 J		ND		ND		ND		ND	
1,3-Dichlorobenzene	14 J		ND		ND		ND		ND	
1,4-Dichlorobenzene	97		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND	
2-Methylphenol	100		290		140		ND		ND	
4-Methylphenol	1200		2700		1600		1500		1200	
Chlorobenzene	8600		8500		11000		7800		12000	
Phenol	28 J		ND		ND		ND		ND	
PCBs (ug/L)										
Aroclor 1260	6.4		--		52		1.7		0.49	
Metals (ug/L)										
Aluminum	6280		--		257		ND		ND	
Arsenic	42.7		--		57		29		50	
Barium	2650		--		2570		2010		2460	
Copper	ND		--		ND		ND		ND	
Calcium	165000		--		148000		141000		147000	
Iron	35800		--		30800		21100		31200	
Lead	5.2		--		ND		ND		11	
Magnesium	36500		--		32400		25900		31000	
Manganese	26200		--		19800		18900		20000	
Potassium	3920		--		2790		3360		2840	
Sodium	37100		--		25800		51200		26600	
Thallium	30.7		--		27		27		78	
Zinc	20.4		--		22		ND		ND	

Table 1: Summary of Historical Leachate and Extraction Well Data

Chemical Name	Location		Sample Date		Sample Name		Frac Tank		EW-1		EW-1		EW-1		EW-1		EW-1		EW-1	
	Frac Tank		April-09		Frac Tank		Frac Tank		October-08		November-08		April-09		October-09		April-10		November-10	
	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOCs (ug/L)																				
1,2-Dichloroethene (total)	--		1800		2000		3000		580		890		530							
Benzene	--		3100		3100		7000		1200		1300		940							
Ethyl benzene	--		ND		ND		ND		ND		ND		ND							
Methylene chloride	--		7200		8200		9100		2500		2400		1300							
Toluene	--		4100		2700		11000		660		ND		ND							
Trichloroethene	--		33000		30000		46000		15000		13000		11000							
Xylenes, Total	--		ND		ND		ND		ND		ND		ND							
SVOCs (ug/L)																				
1,2-Dichlorobenzene	--		27		ND		ND		ND		ND		ND							
1,3-Dichlorobenzene	--		ND		ND		ND		ND		ND		ND							
1,4-Dichlorobenzene	--		49		45		33		ND		ND		7							
1,2,4-Trichlorobenzene	--		380		460		280		90		160		66							
2-Methylphenol	--		110		84		63		ND		29		9							
4-Methylphenol	--		230		140		110		26		48		14							
Chlorobenzene	--		ND		ND		3700		ND		ND		ND							
Phenol	--		440 E		400		280		82		140		36							
PCBs (ug/L)																				
Aroclor 1260	--		--		--		--		ND		ND		ND							
Metals (ug/L)																				
Aluminum	3160		--		--		ND		ND		ND		ND							
Arsenic	ND		--		--		ND		12		ND		7							
Barium	266		--		--		79		70		61		66							
Copper	7		--		--		ND		14		ND		ND							
Calcium	35200		--		--		28300		22500		19100		22600							
Iron	3140		--		--		ND		ND		ND		ND							
Lead	ND		--		--		68		31		ND		ND							
Magnesium	6440		--		--		5000		4670		4010		4500							
Manganese	498		--		--		333		316		ND		317							
Potassium	2190		--		--		449		418		732		409							
Sodium	72900		--		--		52900		28500		43700		40000							
Thallium	22		--		--		20		ND		ND		ND							
Zinc	16		--		--		ND		13		ND		ND							

Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name	EW-2 September-08 EW-2		EW-2 October-08 EW-2		EW-2 November-08 EW-2		EW-2 April-09 EW-2		EW-2 October-09 EW-2		EW-2 April-10 EW-2		EW-2 November-10 EW-2	
Chemical Name	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOCs (ug/L)														
1,2-Dichloroethene (total)	1600		1800		2100		4300		1200		2000		2200	
Benzene	4600		4200		4500		9300		2900		3300		3800	
Ethyl benzene	ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	8000		7700		10000		17000		6100		5100		6400	
Toluene	4700		1900		7000		11000		3400		3600		4400	
Trichloroethene	38000		33000		37000		61000		ND		28000		35000	
Xylenes, Total	ND		ND		ND		ND		ND		ND		ND	
SVOCs (ug/L)														
1,2-Dichlorobenzene	ND		25		ND		31		ND		ND		ND	
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		48		32		43		47		ND		ND	
1,2,4-Trichlorobenzene	510		350		320		360		470 E		330		430	
2-Methylphenol	180		130		180		100		79		54		ND	
4-Methylphenol	380		260		430		220		130		120		81	
Chlorobenzene	ND		ND		1000		4200		ND		ND		ND	
Phenol	1300		590 E		530		500 E		540 E		190		320	
PCBs (ug/L)														
Aroclor 1260	--		--		--		--		ND		ND		ND	
Metals (ug/L)														
Aluminum	--		--		--		ND		ND		ND		ND	
Arsenic	--		--		--		ND		8		ND		ND	
Barium	--		--		--		180		203		167		187	
Copper	--		--		--		6		63		10		ND	
Calcium	--		--		--		44400		26600		27400		23000	
Iron	--		--		--		68		ND		ND		ND	
Lead	--		--		--		42		46		ND		ND	
Magnesium	--		--		--		8120		6190		6200		5060	
Manganese	--		--		--		537		456		ND		457	
Potassium	--		--		--		755		572		1150		520	
Sodium	--		--		--		52600		29100		42400		41100	
Thallium	--		--		--		27		ND		ND		ND	
Zinc	--		--		--		37		42		27		ND	

Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name Chemical Name	EW-3 October-08 EW-3 Result Qual	EW-3 November-08 EW-3 Result Qual	EW-3 April-09 EW-3 Result Qual	EW-3 October-09 EW-3 Result Qual	EW-3 April-10 EW-3 Result Qual	EW-3 November-10 EW-3 Result Qual
VOCs (ug/L)						
1,2-Dichloroethene (total)	1600	1700	2200	360	900	750
Benzene	12000	11000	15000	4900 E	7600	8100
Ethyl benzene	ND	ND	ND	NA	ND	ND
Methylene chloride	ND	310	ND	140	ND	ND
Toluene	5900	5600	8900	1400	5300	6100
Trichloroethene	1100	1300	2500	300	760	680
Xylenes, Total	ND	560	ND	130	300	320
SVOCs (ug/L)						
1,2-Dichlorobenzene	ND	ND	ND	NA	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	NA	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	NA	ND	ND
1,2,4-Trichlorobenzene	ND	350	ND	NA	ND	ND
2-Methylphenol	170	210	200	30	110	66
4-Methylphenol	530	510	620	130	440	310
Chlorobenzene	1600	1900	2700	570	1200	1100
Phenol	190	730	370	29	330	180
PCBs (ug/L)						
Aroclor 1260	--	--	--	ND	ND	ND
Metals (ug/L)						
Aluminum	--	--	ND	ND	ND	ND
Arsenic	--	--	ND	10	ND	ND
Barium	--	--	545	284	540	643
Copper	--	--	ND	116	ND	ND
Calcium	--	--	21100	49700	13900	14800
Iron	--	--	ND	112	53	ND
Lead	--	--	9	206	ND	ND
Magnesium	--	--	989	4600	542	620
Manganese	--	--	193	205	139	176
Potassium	--	--	1210	1460	1250	1150
Sodium	--	--	242000	130000	225000	160000
Thallium	--	--	35	ND	ND	ND
Zinc	--	--	ND	442	ND	27

Table 1: Summary of Historical Leachate and Extraction Well Data

Location Sample Date Sample Name Chemical Name	DB-10 October-08 DB-10		DB-10 April-09 DB-10		DB-10 October-09 DB-10		DB-10 April-10 DB-10		DB-10 November-10 DB-10		OMW-216 October-08 OMW-216		OMW-216 April-09 OMW-216		OMW-216 October-09 OMW-216		OMW-216 April-10 OMW-216		OMW-216 November-10 OMW-216	
	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOCs (ug/L)																				
1,2-Dichloroethene (total)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	ND		24		ND		49		ND		ND		ND		ND		ND		ND	
Ethyl benzene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Methylene chloride	ND		14		42		ND		13		ND		8.8		9.9		ND		ND	
Toluene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Trichloroethene	5.5		340		720		660		190		ND		ND		ND		ND		ND	
Xylenes, Total	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
SVOCs (ug/L)																				
1,2-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylphenol	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methylphenol	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND		ND		6.4		ND		ND		5.1		ND	
Phenol	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
PCBs (ug/L)																				
Aroclor 1260	ND		--		ND		ND		ND		--		--		ND		ND		ND	
Metals (ug/L)																				
Aluminum	--		--		ND		ND		ND		--		--		ND		ND		238	
Arsenic	--		--		ND		ND		ND		--		--		ND		ND		ND	
Barium	--		--		84		98		28		--		--		41		51		25	
Copper	--		--		ND		ND		ND		--		--		ND		ND		ND	
Calcium	--		--		30600		25600		2550		--		--		17200		36800		11500	
Iron	--		--		187		584		219		--		--		1630		1600		33900	
Lead	--		--		ND		ND		ND		--		--		ND		ND		ND	
Magnesium	--		--		2300		1880		75		--		--		5370		5850		4270	
Manganese	--		--		275		222		23		--		--		ND		90		271	
Potassium	--		--		605		955		1650		--		--		781		1040		1540	
Sodium	--		--		31900		45500		31000		--		--		31300		39000		31000	
Thallium	--		--		ND		ND		ND		--		--		ND		ND		ND	
Zinc	--		--		ND		ND		21		--		--		ND		ND		28	

Notes:

Results provided by NYSDEC.

ug/L = micrograms per liter

Leachate_U = collected from an unspecified location within the tank

Leachate_M = collected from the middle of the tank

Leachate_B = collected from the bottom of the tank

Leachate_C = represents a composite of samples from within the tank

VOCs = Volatile Organic Compounds

SVOCs - Semi Volatile Organic Compounds

ND = Not Detected

-- = Data not available

Qual = Qualifier

E = estimated value above highest calibration standard

Results for VOC or SVOC parameters not listed on this table may or may not be present

Table 2: 2010 Water Level Measurement and Elevation Data

Well ID	Well Type	Horizontal Coordinates -		Ground Elevation (ft MSL)	Casing Elevation (ft MSL)	Casing and Riser Difference (ft)	Measured Casing Stick-up (ft)	Reference Elevation (ft MSL)	4/1/2010 (Pre-pumping)		4/29/2010		5/27/2010		6/28/2010		7/29/2010	
		Northing (ft)	Easting (ft)						Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)
DB-71	SB	1358758.78	744887.70	641.4	643.92	0.39	2.30	643.53	23.21	620.32	27.85	615.68	29.51	614.02	32.18	611.35	33.17	610.36
DB-7S	O	1358754.57	744891.71	640.6	642.78	0	2.20	642.51	12.05	630.46	12.27	630.24	12.79	629.72	12.86	629.65	13.35	629.16
DB-8I	SB	1358737.59	744860.42	640.7	642.60	0.42	1.70	642.15	23.51	618.64	28.29	613.86	30.12	612.03	33.32	608.83	34.58	607.57
DB-8S	O	1358732.11	744864.53	641.0	643.49	0.52	2.40	643.07	15.58	627.49	15.22	627.85	15.35	627.72	15.77	627.30	15.98	627.09
DB-9C	DB	1357282.3	745165.4	660.7	662.23	0.22	1.25	662.23	46.35	615.88	60.6	601.63	59.60	602.63	56.31	605.92	63.20	599.03
DB-10	DB	1356825.81	744743.03	647.2	649.48	0.34	1.75	649.14	40.16	608.98	No Key		50.32	598.82	51.28	597.86	53.06	596.08
DB-11B	SB	1358176.7	744908.2	662.6	663.79	0.31	1.11	663.79	52.08	611.71	60.11	603.68	63.13	600.66	64.02	599.77	64.48	599.31
GMW-10B	O	1358783.02	744861.43	640.27	642.27	1.27	3.20	641	23.74	617.26	29.07	611.93	30.92	610.08	34.21	606.79	35.49	605.51
GMW-11B	O	1359306.39	745229.21	644.91	646.56	1.04	2.50	645.52	12.72	632.80	13.04	632.48	13.40	632.12	13.40	632.12	14.47	631.05
OB-3	O	1358539.0	745112.7	648.3	650.72	0.02	1.60	650.72	16.17	634.55	17.16	633.56	17.71	633.01	17.83	632.89	18.12	632.60
OMW-101	O	1358707.16	744749.58	638.96	640.56	0.93	1.96	639.63	24.77	614.86	30.3	609.33	32.47	607.16	36.30	603.33	37.78	601.85
OMW-103	SB	1358343.91	745390.94	643.27	644.82	0.55	1.90	644.27	7.29	636.98	8.61	635.66	9.10	635.17	9.73	634.54	9.75	634.52
OMW-107	O	1359400.69	744597.59	624.17	626.39	0.25	2.60	626.14	3.25	622.89	4.16	621.98	4.58	621.56	4.89	621.25	5.28	620.86
OMW-108	SB	1359397.81	744623.43	625	625.96	0.01	1.90	625.95	15.73	610.22	16.44	609.51	18.66	607.29	20.56	605.39	22.23	603.72
OMW-201	SB	1358720.27	744768.97	638	640.15	0.25	2.20	639.90	24.20	615.70	30.15	609.75	32.24	607.66	35.81	604.09	37.24	602.66
OMW-202	SB	1358312.10	744541.75	655	656.97	0.73	1.41	656.24	45.75	610.49	57.38	598.86	59.67	596.57	63.77	592.47	65.15	591.09
OMW-205	SB	1358196.34	745147.89	650	651.98	0.38	1.25	651.60	21.08	630.52	28.98	622.62	30.38	621.22	30.53	621.07	31.03	620.57
OMW-206	SB	1359341.51	744062.06	617	618.96	0.08	1.83	618.88	17.88	601.00	18.67	600.21	19.50	599.38	20.45	598.43	21.47	597.41
OMW-209	SB	1357666.11	745326.72	658	657.97	0.13	0.82	657.84	30.19	627.65	30.39	627.45	31.66	626.18	32.72	625.12	33.55	624.29
OMW-210	O	1358181.43	745174.41	647.50	648.98	0.4	1.88	648.58	No Key		No Key		16.74	631.84	17.31	631.27	17.17	631.41
OMW-211	O	1358480.01	745011.26	649.46	651.35	0.75	1.82	650.60	39.20	611.40	49.07	601.53	46.00	604.60	53.00	597.60	Dry	
OMW-212	SB	1358573.72	744212.84	653	655.86	0.59	2.11	655.27	55.36	599.91	56.59	598.68	57.51	597.76	58.78	596.49	60.10	595.17
OMW-213	SB	1358198.49	744753.57	668	668.97	0	1.80	668.97	56.76	612.21	67.72	601.25	70.68	598.29	75.14	593.83	76.68	592.29
OMW-214	SB	1357681.50	745316.62	655	656.84	0.7	1.41	656.14	31.29	624.85	34.44	621.70	38.75	617.39	39.14	617.00	39.98	616.16
OMW-215	DB	1358318.65	744516.95	655	657.91	0.39	1.68	657.52	47.82	609.70	56.92	600.60	59.41	598.11	63.07	594.45	64.25	593.27
OMW-216	DB	1357628.19	745334.99	657	659.18	0.36	1.15	658.82	34.74	624.08	45.18	613.64	46.01	612.81	44.31	614.51	47.77	611.05
OMW-218	DB	1358579.49	744240.00	652	655.07	0.12	1.75	654.95	54.58	600.37	55.8	599.15	56.74	598.21	57.90	597.05	59.25	595.70
OMW-219	DB	1358217.56	744777.53	668	668.56	0.67	3.02	667.89	56.21	611.68	68.54	599.35	70.87	597.02	74.98	592.91	76.32	591.57
OMW-221 *	DB	1356141.60	745356.93	592.12	593.25	0.1	1.10	593.15	0.00	593.15	0	593.15	0.00	593.15	0.00	593.15	0.00	593.15
OMW-222	DB	135332.19	744584.77	600.59	600.59	0.6	2.60	599.99	19.36	580.63	22.8	577.19	23.95	576.04	25.25	574.74	26.51	573.48
OPZ-104	Destroyed																	
OPZ-207	SB	1358984.44	744574.94	649	649.59	1.4	2.60	648.19	37.93	610.26	42.02	606.17	44.04	604.15	47.10	601.09	48.48	599.71
OPZ-217	DB	1359328.04	745547.92	665	666.53	0.5	2.10	666.03	12.41	653.62	12.7	653.33	13.71	652.32	15.41	650.62		
PB-1	SB	1358751.91	744851.12	642	643.07	0.24	3.00	642.83	26.36	616.47	32.04	610.79	33.85	608.98	37.22	605.61	38.11	604.72
PB-2	SB	1358524.24	745096.85	648	650.66	0.19	1.70	650.47	18.98	631.49	23.98	626.49	25.08	625.39	25.25	625.22	25.77	624.70
PO-1	O	1358556.69	745097.34	647.49	650.78	0.3	3.60	650.48	20.48	630.00	29.92	620.56	21.90	628.58	22.82	627.66	23.41	627.07
PO-2	O	1359183.10	744669.59	641.72	644.30	0.15	2.70	644.15	15.58	628.57	16.72	627.43	17.19	626.96	16.63	627.52	17.15	627.00
PO-3	O	1359086.62	744732.27	642.42	645.25	0	2.90	645.25	14.67	630.58	15.22	630.03	15.78	629.47	15.59	629.66	16.09	629.16
PO-4	O	1358814.99	744861.66	640.64	643.14	0.24	2.70	642.90	11.12	631.78	11.45	631.45	11.93	630.97	11.96	630.94	12.47	630.43
PW-3	O	1358538.75	745083.38	647.68	651.07	0.1	3.50	650.97	22.55	628.42	23.34	627.63	24.91	626.06	25.95	625.02	26.55	624.42
PW-4	O	1358793.55	744893.02	641.04	642.99	0.32	2.30	642.67	10.99	631.68	11.26	631.41	11.76	630.91	11.82	630.85	12.31	630.36

Table 2: 2010 Water Level Measurement and Elevation Data

Well ID	Well Type	Horizontal Coordinates -		Ground Elevation (ft MSL)	Casing Elevation (ft MSL)	Casing and Riser Difference (ft)	Measured Casing Stick-up (ft)	Reference Elevation (ft MSL)	8/26/2010		10/7/2010		11/2/2010		11/30/2010	
		Northing (ft)	Easting (ft)						Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)	Depth to Water (ft)	Water Surface Elevation (ft MSL)
DB-7I	SB	1358758.78	744887.70	641.4	643.92	0.39	2.30	643.53	33.52	610.01	32.16	611.37	31.25	612.28	29.07	614.46
DB-7S	O	1358754.57	744891.71	640.6	642.78	0	2.20	642.51	13.53	628.98	13.80	628.71	14.38	628.13	14.30	628.21
DB-8I	SB	1358737.59	744860.42	640.7	642.60	0.42	1.70	642.15	34.99	607.16	33.71	608.44	33.41	608.74	30.22	611.93
DB-8S	O	1358732.11	744864.53	641.0	643.49	0.52	2.40	643.07	16.17	626.90	16.04	627.03	15.67	627.40	15.35	627.72
DB-9C	DB	1357282.3	745165.4	660.7	662.23	0.22	1.25	662.23	62.65	599.58	64.93	597.30	63.82	598.41	No Key	
DB-10	DB	1356825.81	744743.03	647.2	649.48	0.34	1.75	649.14	53.02	596.12	54.35	594.79	53.66	595.48	No Key	
DB-11B	SB	1358176.7	744908.2	662.6	663.79	0.31	1.11	663.79	64.82	598.97	65.19	598.60	DRY		No Key	
GMW-10B	O	1358783.02	744861.43	640.27	642.27	1.27	3.20	641	35.91	605.09	34.20	606.80	32.98	608.02	30.38	610.62
GMW-11B	O	1359306.39	745229.21	644.91	646.56	1.04	2.50	645.52	14.12	631.40	14.05	631.47	15.15	630.37	14.90	630.62
OB-3	O	1358539.0	745112.7	648.3	650.72	0.02	1.60	650.72	18.36	632.36	16.82	633.90	18.06	632.66	17.94	632.78
OMW-101	O	1358707.16	744749.58	638.96	640.56	0.93	1.96	639.63	38.29	601.34	36.80	602.83	34.88	604.75	32.13	607.50
OMW-103	SB	1358343.91	745390.94	643.27	644.82	0.55	1.90	644.27	10.78	633.49	7.15	637.12	8.55	635.72	8.49	635.78
OMW-107	O	1359400.69	744597.59	624.17	626.39	0.25	2.60	626.14	5.75	620.39	3.32	622.82	3.87	622.27	4.04	622.10
OMW-108	SB	1359397.81	744623.43	625	625.96	0.01	1.90	625.95	23.20	602.75	24.00	601.95	24.71	601.24	22.12	603.83
OMW-201	SB	1358720.27	744768.97	638	640.15	0.25	2.20	639.90	37.74	602.16	35.87	604.03	34.23	605.67	31.33	608.57
OMW-202	SB	1358312.10	744541.75	655	656.97	0.73	1.41	656.24	65.61	590.63	62.93	593.31	59.11	597.13	54.56	601.68
OMW-205	SB	1358196.34	745147.89	650	651.98	0.38	1.25	651.60	30.29	621.31	31.65	619.95	31.92	619.68	24.29	627.31
OMW-206	SB	1359341.51	744062.06	617	618.96	0.08	1.83	618.88	22.17	596.71	22.32	596.56	22.17	596.71	21.46	597.42
OMW-209	SB	1357666.11	745326.72	658	657.97	0.13	0.82	657.84	34.16	623.68	34.00	623.84	35.07	622.77	33.82	624.02
OMW-210	O	1358181.43	745174.41	647.50	648.98	0.4	1.88	648.58	18.58	630.00	15.32	633.26	16.44	632.14	15.80	632.78
OMW-211	O	1358480.01	745011.26	649.46	651.35	0.75	1.82	650.60	Dry		Dry		Dry		Dry	
OMW-212	SB	1358573.72	744212.84	653	655.86	0.59	2.11	655.27	61.04	594.23	61.14	594.13	60.59	594.68	59.28	595.99
OMW-213	SB	1358198.49	744753.57	668	668.97	0	1.80	668.97	77.09	591.88	75.80	593.17	73.31	595.66	68.14	600.83
OMW-214	SB	1357681.50	745316.62	655	656.84	0.7	1.41	656.14	40.51	615.63	41.11	615.03	43.08	613.06	39.43	616.71
OMW-215	DB	1358318.65	744516.95	655	657.91	0.39	1.68	657.52	64.80	592.72	62.74	594.78	60.03	597.49	56.04	601.48
OMW-216	DB	1357628.19	745334.99	657	659.18	0.36	1.15	658.82	47.14	611.68	48.81	610.01	48.42	610.40	38.13	620.69
OMW-218	DB	1358579.49	744240.00	652	655.07	0.12	1.75	654.95	60.12	594.83	60.28	594.67	59.78	595.17	58.40	596.55
OMW-219	DB	1358217.56	744777.53	668	668.56	0.67	3.02	667.89	76.75	591.14	74.21	593.68	69.61	598.28	65.01	602.88
OMW-221 *	DB	1356141.60	745356.93	592.12	593.25	0.1	1.10	593.15	0.00	593.15	0.00	593.15	0.00	593.15	0.00	593.15
OMW-222	DB	135332.19	744584.77	600.59	600.59	0.6	2.60	599.99	23.29	576.70	22.42	577.57	22.54	577.45	21.45	578.54
OPZ-104	Destroyed															
OPZ-207	SB	1358984.44	744574.94	649	649.59	1.4	2.60	648.19	49.15	599.04	48.12	600.07	46.77	601.42	44.58	603.61
OPZ-217	DB	1359328.04	745547.92	665	666.53	0.5	2.10	666.03	19.20	646.83	20.81	645.22	21.53	644.50	19.98	646.05
PB-1	SB	1358751.91	744851.12	642	643.07	0.24	3.00	642.83	38.98	603.85	37.16	605.67	35.69	607.14	33.12	609.71
PB-2	SB	1358524.24	745096.85	648	650.66	0.19	1.70	650.47	25.47	625.00	26.31	624.16	26.53	623.94	21.67	628.80
PO-1	O	1358556.69	745097.34	647.49	650.78	0.3	3.60	650.48	23.72	626.76	23.78	626.70	23.57	626.91	23.04	627.44
PO-2	O	1359183.10	744669.59	641.72	644.30	0.15	2.70	644.15	17.09	627.06	17.31	626.84	17.56	626.59	16.92	627.23
PO-3	O	1359086.62	744732.27	642.42	645.25	0	2.90	645.25	16.00	629.25	16.40	628.85	17.24	628.01	16.88	628.37
PO-4	O	1358814.99	744861.66	640.64	643.14	0.24	2.70	642.90	12.65	630.25	12.88	630.02	13.65	629.25	13.39	629.51
PW-3	O	1358538.75	745083.38	647.68	651.07	0.1	3.50	650.97	26.80	624.17	26.64	624.33	26.48	624.49	25.84	625.13
PW-4	O	1358793.55	744893.02	641.04	642.99	0.32	2.30	642.67	12.49	630.18	12.75	629.92	13.39	629.28	13.39	629.28

Table 2: 2010 Water Level Measurement and Elevation Data

Well ID	Well Type	Horizontal Coordinates -		Ground Elevation (ft MSL)	Casing Elevation (ft MSL)	Casing and Riser Difference (ft)	Measured Casing Stick-up (ft)	Reference Elevation (ft MSL)
		Northing (ft)	Easting (ft)					
DB-71	SB	1358758.78	744887.70	641.4	643.92	0.39	2.30	643.53
DB-7S	O	1358754.57	744891.71	640.6	642.78	0	2.20	642.51
DB-81	SB	1358737.59	744860.42	640.7	642.60	0.42	1.70	642.15
DB-8S	O	1358732.11	744864.53	641.0	643.49	0.52	2.40	643.07
DB-9C	DB	1357282.3	745165.4	660.7	662.23	0.22	1.25	662.23
DB-10	DB	1356825.81	744743.03	647.2	649.48	0.34	1.75	649.14
DB-11B	SB	1358176.7	744908.2	662.6	663.79	0.31	1.11	663.79
GMW-10B	O	1358783.02	744861.43	640.27	642.27	1.27	3.20	641
GMW-11B	O	1359306.39	745229.21	644.91	646.56	1.04	2.50	645.52
OB-3	O	1358539.0	745112.7	648.3	650.72	0.02	1.60	650.72
OMW-101	O	1358707.16	744749.58	638.96	640.56	0.93	1.96	639.63
OMW-103	SB	1358343.91	745390.94	643.27	644.82	0.55	1.90	644.27
OMW-107	O	1359400.69	744597.59	624.17	626.39	0.25	2.60	626.14
OMW-108	SB	1359397.81	744623.43	625	625.96	0.01	1.90	625.95
OMW-201	SB	1358720.27	744768.97	638	640.15	0.25	2.20	639.90
OMW-202	SB	1358312.10	744541.75	655	656.97	0.73	1.41	656.24
OMW-205	SB	1358196.34	745147.89	650	651.98	0.38	1.25	651.60
OMW-206	SB	1359341.51	744062.06	617	618.96	0.08	1.83	618.88
OMW-209	SB	1357666.11	745326.72	658	657.97	0.13	0.82	657.84
OMW-210	O	1358181.43	745174.41	647.50	648.98	0.4	1.88	648.58
OMW-211	O	1358480.01	745011.26	649.46	651.35	0.75	1.82	650.60
OMW-212	SB	1358573.72	744212.84	653	655.86	0.59	2.11	655.27
OMW-213	SB	1358198.49	744753.57	668	668.97	0	1.80	668.97
OMW-214	SB	1357681.50	745316.62	655	656.84	0.7	1.41	656.14
OMW-215	DB	1358318.65	744516.95	655	657.91	0.39	1.68	657.52
OMW-216	DB	1357628.19	745334.99	657	659.18	0.36	1.15	658.82
OMW-218	DB	1358579.49	744240.00	652	655.07	0.12	1.75	654.95
OMW-219	DB	1358217.56	744777.53	668	668.56	0.67	3.02	667.89
OMW-221 *	DB	1356141.60	745356.93	592.12	593.25	0.1	1.10	593.15
OMW-222	DB	135332.19	744584.77	600.59	600.59	0.6	2.60	599.99
OPZ-104	Destroyed							
OPZ-207	SB	1358984.44	744574.94	649	649.59	1.4	2.60	648.19
OPZ-217	DB	1359328.04	745547.92	665	666.53	0.5	2.10	666.03
PB-1	SB	1358751.91	744851.12	642	643.07	0.24	3.00	642.83
PB-2	SB	1358524.24	745096.85	648	650.66	0.19	1.70	650.47
PO-1	O	1358556.69	745097.34	647.49	650.78	0.3	3.60	650.48
PO-2	O	1359183.10	744669.59	641.72	644.30	0.15	2.70	644.15
PO-3	O	1359086.62	744732.27	642.42	645.25	0	2.90	645.25
PO-4	O	1358814.99	744861.66	640.64	643.14	0.24	2.70	642.90
PW-3	O	1358538.75	745083.38	647.68	651.07	0.1	3.50	650.97
PW-4	O	1358793.55	744893.02	641.04	642.99	0.32	2.30	642.67

Notes:

O = overburden well

SB = shallow bedrock well

DB = deep bedrock well

Sequence of Elevation entries:

1 Red entries are from DEC GIS file tab: "wellpointswcord"

2 Green entries are from D&B Table 2-1

3 Blue are casing elevations from Popli survey 11/8/2005 (note that riser elevations from that survey match previous red/green entries)

4 Purple entries are from D&B Table I-3

* Artesian well (Water is flowing over well rim).

Casing stickup and casing/riser difference is as measured during April 29, 2010 field activities

Reference elevation assumed to be riser elev (i.e. casing elev - difference to riser) unless color coded