

New York State Department of Environmental Conservation

Department of Environmental Remediation • 625 Broadway • Albany, NY 12233

Columbia Mills Site 2009 Annual Groundwater Monitoring Report

NYSDEC Site Number 7-38-012

November 2009

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Contents

<u>1. Intro</u>	. Introduction						
<u>2. Site</u>	Description	2-1					
<u>3. Ope</u>	ration and Maintenance	3-1					
3.1.	O&M Observations						
3.2.	Leachate Collection System Evalu	ation and Observations					
3.3.	Leachate Collection System Oper	ation Overview					
3.4.	Leachate Collection System Sam 3.4.1. Sampling Procedures	oling					
	3.4.2. Sampling Results						
<u>4. Gro</u>	undwater Monitoring Progra	ım 4-1					
4.1.	Groundwater Monitoring 4.1.1. Well Inspection 4.1.2. Water Level Survey						
4.2.	Groundwater Sampling 4.2.1. Groundwater Sampling 4.2.2. Groundwater Sampling	4-1 Results - PCBs					
4.3.	Surface Water Sampling 4.3.1. Surface Water Sampling	4-2 Results - Metals 4-3					
<u>5. Rec</u>	ommendations	5-1					
5.1.	Leachate Collection System						
5.2.	Groundwater Monitoring						
<u>6. Sun</u>	nmary	6-1					
<u>7. Refe</u>	erences	7-1					

Figures

- 3-1 Leachate Collection System Schematic
- 3-2 Process Flow Diagram
- 3-3 Sampling Locations
- 4-1 Groundwater Monitoring Well Locations
- 4-2 Shallow Potentiometric Surface
- 4-3 Deep Potentiometric Surface





Tables

- 3-1 Summary of Leachate Collection System Sampling Results
- 4-1 Summary of Groundwater Elevations
- 4-2 Summary of Groundwater Sampling Results PCBs
- 4-2 Summary of Groundwater Sampling Results Metals
- 4-3 Summary of Surfacewater Sampling Results Metals
- 4-4 Summary of Amphibian Breeding Pond Sediment Sampling Results PCBs

Appendices

- A. Photograph Log
- B. DEC Site Management Photographic Report
- C. Analytical Reporting Forms
- D. Monitoring Well Inspection Forms
- E. Groundwater Level Data Form
- F. Groundwater Sampling Purge Logs





The New York State Department of Environmental Conservation (NYSDEC) has issued a Work Assignment (# D004443-7) to Malcolm Pirnie, Inc. (Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Columbia Mills Site (NYSDEC Site Number 7-38-012) in New York State. Malcolm Pirnie has prepared this Quarterly Report in accordance with the NYSDEC-approved Work Plan to summarize site activities, including second quarter 2009 groundwater sampling results.





1-1

The Columbia Mills site is located on Route 48, Minetto, Oswego County, New York (Figure 2-1), across Route 48 from the western bank of the Oswego Canal. A capped, closed landfill is located in the western portion of the site.





2-1

Operation and Maintenance (O&M) activities were conducted between June 17 and 19, 2009 in accordance with the Work Plan. In addition, a site reconnaissance was conducted to provide additional information on the leachate collection system.

3.1. O&M Observations

The following observations were noted during the June 2009 inspection:

- The landfill cover appeared to be mowed just prior to the June 2009 site inspection. The cover is currently mowed by NYSDEC Division of Operations.
- No woody vegetation was observed on the cover system.
- One cleanout pipe for the leachate collection system was damaged, apparently by mowing.
- No problems were noted with the condition of the perimeter fence or with the security of the landfill.

3.2. Leachate Collection System Evaluation and Observations

Malcolm Pirnie and NYSDEC representatives conducted site reconnaissance and dye tracer testing to provide additional details regarding the leachate collection system. Figure 3-1 provides a schematic with details compiled from historical construction documents and site observations. A photograph log is presented in Appendix A. Appendix B contains documentation of field observations provided by the NYSDEC for June 18 and 19, 2009 site activities (Welling, 2009).

A concrete leachate discharge structure was located near the inlet to the amphibian breeding pond (ABP) (Photo 1). Flow was observed in the pipe discharging to the ABP. The combination sampling sump was located between the discharge structure and the leachate collection tank (Photo 2). Three inlets pipes and one discharge were noted in the structure. The ends of two of the inlet pipes were fitted with ball valves. Water was observed flowing into the structure from each inlet pipe. The combined flow was estimated at less than one gallon per minute (gpm). The level of water in the discharge structure was sufficient to allow flow into the structure discharge pipe, which was apparently discharging to the ABP.

On June 18, 2009, fluorescent dye was added to the leachate collection tank to provide a visual indicator of flow in the leachate collection system (Photo 3); however, no dye was





observed in the inlets to the combination sampling sump or the discharge to the Town of Minetto sewer.

On June 19, 2009, covers were removed from cleanouts for the leachate collection pipes and pore-pressure relief system (PPRS). The bottom sides of the covers were identified as either "Leachate" or "Groundwater". Water with fluorescent dye was poured into respective cleanout pipes to evaluate flow through the system. When dye-trace water was added to a "Groundwater" cleanout, flow increased and dye was observed in one of the three pipes (designated North PPRS) flowing into the combination sampling sump. Water with fluorescent dye was then added to a "Groundwater" cleanout pipe located on the southern perimeter of the landfill and an increase in flow and the presence of tracer dye were observed in a second pipe (designated South PPRS) flowing into the combination sampling sump. Finally, water with fluorescent dye was added to a "Leachate" cleanout pipe and increased flow and tracer dye was observed in the remaining inlet to the combination sampling sump. The combined discharge to the ABP from the combination sampling sump was also confirmed by the presence of fluorescent dye. Flow was then diverted to the Town sewer via the flow control valves; tracer dye was subsequently observed discharging to the Town sewer.

As shown on Figure 3-1, the leachate collection tank has two manway openings. One manway opening provides access to the collection tank (tank access manway); the second opening provides access to the inlet pipe where it enters the top of the collection tank (inlet pipe manway). At the start of the evaluation, the level of water in each manway was approximately 12 feet higher than the elevation of the top of the tank and approximately one foot below the manway rims.

During the dye-trace testing discussed above, water was pumped from the manway opening that contains the tank connection to the inlet pipe (inlet pipe manway). As the water level in this manway opening dropped, the level in the second manway opening (tank access manway) also dropped. At the direction of NYSDEC, water from the tank access manway was pumped to the ground surface until the water level was approximately one inch below the top of the tank. Consequently, the water level in the opposing inlet pipe manway dropped, but only to approximately 2 inches above the bulkhead of the tank. The resulting water level in the inlet pipe manway corresponded to a PVC pipe fitting in the leachate inlet pipe. Based on this observation, a leak is expected in the leachate inlet pipe, providing a hydraulic connection between the tank access and inlet pipe access manway openings. With the water level in the inlet pipe manway reduced, a tank inlet control valve was observed in the manway (Photo 4). The valve did not have an operating handle so the position of the valve (open or closed) could not be confirmed.





As mentioned above, the initial head difference between the water level in the tank manways and tank inlet pipe was measured at approximately 12 feet. Based on the configuration of the collection system (an "open", gravity-flow system) and the observations recorded during the evaluation, it is presumed that leachate was being captured in the collection tank and the valves to the Town sewer and ABP were closed. The tank filled and the leachate level apparently rose into the tank access manway. The leachate would have backed up the collection lines with the level in the manways and leachate lines in equilibrium. Since a leak is present in the leachate line within the inlet pipe manway, this access structure would have filled concurrently with the tank access manway. Therefore, the level of leachate in the collection tank and manway openings during the 2009 site inspection could be representative of the head in the leachate collection line (presumably near the upper portion of the landfill) when the valve was finally closed. With the tank inlet valve closed, the level in the collection tank and manways would remain elevated even when the valve to the ABP were opened and the leachate flow resumed a steady state.

A second alternative to explain the elevation in the tank is that the collection tank was filled to capacity and the inlet valve was closed and leachate flow was diverted to the ABP. Therefore, leachate could not "backflow" into the collection system. If a portion of precipitation was able to enter the manway openings, then the level in the collection tank would rise above the top of the collection tank as was observed. This scenario may be plausible as the level in the manway openings in 2009 were higher than what was observed in 2008 (Photos 6 and 7).

3.3. Leachate Collection System Operation Overview

Figure 3-2 provides a process flow diagram of the leachate collection system based on the 2008 and 2009 site visits and observations and review of site documents and construction plans. As shown in Figure 3-2, a combination PPRS/leachate collection system is located along the perimeter of the landfill cell. The system directs leachate by gravity to a 10,000 gallon sub-surface leachate collection tank, the Town sanitary sewer, or the ABP (via the combination sampling sump). A valve located at the inlet to the collection tank controls flow into the tank. Valves located upgradient of the leachate collection tank can direct flow to the Town sewer or ABP.

Groundwater from separate PPRSs (north and south of the landfill cell, respectively) discharges into a pre-cast concrete combination sampling sump located on the west side of the landfill. Valves within the sampling sump control groundwater flow into the sump and through the PPRSs. The valves can be closed if sampling indicates the presence of contamination in groundwater from the PPRS collection lines.





3.4. Leachate Collection System Sampling

Leachate and PPRS samples were collected from the combination sampling sump to evaluate the potential presence of PCBs being discharged to the ABP. One surface water sample was also collected from the ABP to assess whether the discharge from the combination sampling sump was affecting surface water quality. Sampling locations shown on Figure 3-3

3.4.1. Sampling Procedures

Aqueous samples were collected from each inlet pipe to the combination sampling sump structure (leachate, north PPRS, and south PPRS) (Figure 3-3) using a peristaltic pump with dedicated tubing. Water collected from each pipe was purged directly into the appropriate sampling container for analysis of PCBs by USEPA Method 8082.

Surface water samples were collected by slowly submerging a pre-cleaned dedicated sampling container beneath the surface of the ABP. Water was allowed to slowly fill the container until the appropriate sample volume was obtained.

3.4.2. Sampling Results

Combination sampling sump and ABP samples were submitted to Test America in Shelton, Connecticut for analysis of PCBs by USEPA Method 8082. The results of the analyses are presented in Table 3-1. Analytical reporting forms are provided in Appendix C. As shown in Table 3-1, PCBs were not detected in any of the samples collected from the combination sampling sump or the ABP.





4.1. Groundwater Monitoring

Groundwater monitoring wells were sampled on June 18 and 19, 2009 to provide information on groundwater quality, monitor contaminant migration in the groundwater at the site, and assess hydrogeologic site conditions, including groundwater flow. Figure 4-1 shows the location of the groundwater monitoring wells.

4.1.1. Well Inspection

Existing on-site groundwater monitoring wells and piezometers were evaluated for integrity and suitability for groundwater monitoring and water levels. The condition of each well and piezometer was recorded on a well inspection form, provided in Appendix D. As shown on the well inspection forms, landfill piezometers LFP-2 and LFP-7 had damaged riser pipes. These piezometers will be repaired during the next site visit. The integrity of the remaining groundwater monitoring wells and piezometer was generally acceptable and no repair or maintenance is required at this time.

4.1.2. Water Level Survey

Prior to collecting samples, water levels were measured to the nearest hundredth of a foot and recorded on a groundwater level data form (Appendix E). Table 4-1 summarizes the groundwater levels and elevations from the site. As shown in Table 4-1, groundwater elevations in shallow overburden and bedrock wells ranged from approximately 310 feet above mean sea level (amsl) to approximately 324 feet amsl; groundwater elevations in deep bedrock wells ranged from approximately 293-feet amsl to approximately 324 feet amsl. Shallow and deep potentiometric surfaces map are provided on Figure 4-2 and Figure 4-3, respectfully. As shown on Figure 4-2 and Figure 4-3, the direction of groundwater flow in the vicinity of the site is generally to the northeast toward the ABP and the Oswego Canal.

4.2. Groundwater Sampling

Groundwater samples from monitoring wells MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, and MW-4D were collected using low-flow groundwater purging and sampling procedures in accordance with the Work Plan. Prior to collecting groundwater samples, pH, conductivity, turbidity, dissolved oxygen (DO), temperature, salinity, total dissolved solids (TDS), and oxidation-reduction potential (REDOX) were measured using a Horiba U-22 water quality meter and recorded on groundwater sampling purge logs. Groundwater sampling purge logs are presented in Appendix F.





Groundwater samples collected during the groundwater monitoring program are analyzed for PCBs by USEPA Method 8082. However, based on the sampling requirements presented in the ROD, and as recommended in the Draft Periodic Review Report (Malcolm Pirnie, 2009), and in consultation with NYSDEC, groundwater samples collected in 2009 were also analyzed for metals by USEPA Method ILM05.3. Analytical reporting forms from the 2009 sampling event are provided in Appendix C. Groundwater sampling results are summarized in Table 4-2 (PCBs), and Table 4-3 (Metals).

4.2.1. Groundwater Sampling Results - PCBs

Table 4-2 shows that no PCBs were detected in any of the samples collected during the 2009 sampling event. As shown in Table 4-2, only one groundwater sample collected in 2007 contained a total PCB concentration greater than the respective NYSDEC Class GA Standard of 0.09 ug/L.

4.2.2. Groundwater Sampling Results – Metals

Table 4-3 shows that iron was detected in samples from groundwater monitoring wells MW-1S (499 ug/L), MW-1D (407 ug/L), and MW-4S (1,820 ug/L) at concentrations greater than the corresponding NYSDEC Class GA Standard of 300 ug/L. As shown in Table 4-3, the sample collected from groundwater monitoring well MW-2S in 2008 (365 ug/L) was greater than the corresponding NYSDEC Class GA Standard. The sample collected from MW-2S in 2009 contained total and dissolved iron concentrations (136 ug/L and non-detect, respectively) less than the respective NYSDEC Class GA Standard of 300 ug/L. The concentrations of sodium in the samples from MW-1D, MW-4S, and MW-4D were 28,800 ug/L, 23,100 ug/L, and 77,500 ug/L, respectively. These results are greater than the corresponding NYSDEC Class GA Standard of 20,000 ug/L but are consistent with the 2008 sample results from these wells. Table 4-3 shows that only one sample (MW-4S) contained a concentration of manganese (941 ug/L) greater than the NYSDEC Class GA Standard of 300 ug/L. This result is greater than the 2008 manganese concentration (740 ug/L) reported in the sample from this well. Metals were not analyzed from MW-3S and MW-3D due to limited groundwater recovery from these wells. Metals analysis was not performed on groundwater samples collected during the 2007 sampling event.

4.3. Surface Water Sampling

Surface water samples were collected to evaluate background concentrations of metals in surface water in the vicinity of the site. As shown on Figure 3-3, one sample (Stream) was collected where the ephemeral stream flows onto the site and one sample (Pond) was collected from the ABP. Surface water samples were collected by submersing the sampling container and slowly allowing the container to fill. Surface water samples were analyzed for metals by USEPA Method ILM05.3. Analytical reporting forms are provided in Appendix C. As discussed in Section 3.4, the sample collected from the ABP was also analyzed for PCBs.





4.3.1. Surface Water Sampling Results - Metals

Analytical results are presented in Table 4-4. As shown in Table 4-4, the sample collected from the stream (Stream) contained iron (448 ug/L) and manganese (610 ug/L) at concentrations that exceed the applicable NYSDEC Class GA and AA Standards of 300 ug/L. The sample from the ABP (Pond) did not contain any metals at concentrations greater than the applicable NYSDEC Class GA or AA Standards.





5.1. Leachate Collection System

Based on the leachate collection system evaluation and observation discussed in Section 3.2, the following recommendations should be considered to confirm the operation of and restore the integrity of the leachate collection system, and maintain the appropriate level of protection for human health and the environment:

- Evacuate and properly dispose the contents of the leachate collection tank to provide storage for leachate should future sampling indicate that discharging to the ABP or Town sewer is unacceptable.
- Since a significant difference in head was observed in the collection tank manway compared to the collection tank inlet and the inlet control valve operation could not be verified during the 2009 site visit, it is recommended that the operation and function of the valve be confirmed during the next site visit.
- A leak was observed in the leachate inlet pipe within the manway opening. Therefore, it is recommended that the inlet pipe be inspected, tested, and repaired.
- Collect and analyze leachate and PPRS samples on an annual basis. Samples should be analyzed for TCL VOCs, total metals, and PCBs.
- Repair leachate collection system cleanout riser.

5.2. Groundwater Monitoring

As discussed in Section 4.2 and 4.3 groundwater samples contained concentrations of iron, sodium, and/or manganese at concentrations greater than the applicable NYSDEC Class GA Standards. Iron and manganese exceedances were also reported in a surface water sample collected upstream of the site. In addition, the sodium exceedances in groundwater are likely related to the annual application of road de-icing agents. Therefore, these analytes are not considered to be contaminants of concern. Based on this information, continued monitoring of metals in groundwater and surface water is not necessary as an annual requirement. Annual analysis for PCBs in groundwater should be continued as described in the Work Plan.





Operation and Maintenance activities conducted in June 2009 indicated no significant problems with the condition or security of the landfill. Based on a review of historical site documents, information obtained during the 2008 and 2009 site activities, and in consultation with NYSDEC, additional site activities were conducted to evaluate the landfill and leachate collection system. Dye tracer testing confirmed the flow of groundwater and leachate to the combination sampling sump and then to the ABP. Dye tracer testing also confirmed that leachate can be directed to the Town of Minetto sewer. Leachate, PPRS, and ABP samples did not contain detectable concentrations of PCBs.

Groundwater monitoring wells and piezometers are generally in acceptable condition. Based on the water level survey, groundwater flow across the site is generally toward the northeast. As suggested in the Draft Periodic Review Report and in consultation with NYSDEC, groundwater samples were analyzed for PCBs and metals. PCBs were not detected in any of the groundwater samples collected during the 2009 monitoring event. Iron and sodium were detected in several groundwater monitoring locations at concentrations greater than the corresponding NYSDEC Class GA Standards. One groundwater sample contained a concentration of manganese greater than the applicable NYSDEC Class GA Standard.

Surface water samples were collected from the ephemeral stream and ABP to evaluate background concentrations of metals. The sample from the stream contained iron and manganese at concentrations greater than the corresponding NYSDEC Class GA and AA Standards. The sample from the ABP did not contain any metals at concentrations greater than the applicable NYSDEC Class GA or AA Standards. Therefore, this indicates that the potential presence of these metals in groundwater is likely and they should not be considered contaminants of concern at the site.

Future recommendations for the site include evacuation and disposal of leachate in the collection tank, verifying the proper operation of the collection tank inlet valve, inspection and repair of the collection tank inlet line, annual leachate and PPRS sampling and analysis for VOCs, metals, and PCBs, and repairing the damaged leachate collection system cleanout riser.

The presence of elevated iron and manganese in surface water suggests that metals are not contaminants of concern in groundwater.





Welling, June 23, 2009, New York State Department of Environmental Conservation, DEC Site Management Photographic Report, Columbia Mills Dye Tests.





7-1





SCALE: 3/16'' = 1'-0''

SOURCE: MALCOLM PIRNIE REMEDIAL LANDFILL DESIGN DRAWINGS (MARCH 1995) AND 2009 MALCOM PIRNIE DYE TESTING AT THE SITE.



NYSDEC STANDBY CONTRACT NO. D00443-7 NYSDEC SITE NO. 7-38-012 COLUMBIA MILLS SITE MINETTO, NEW YORK

LEACHATE COLLECTION SY

	MALCOLM PIRNIE, INC.
STEM SCHEMATIC	AUGUST 2009
VN	FIGURE 3-1













Table 3-1 Summary of Leachate Collection System Sampling Results - PCBs Columbia Mills Minetto, New York NYSDEC Site No. 7-38-012

Sample	NYSDEC	LEACHATE	PPRS-NORTH	PPRS-SOUTH	POND
Date	Class GA	6/19/2009	6/19/2009	6/19/2009	6/19/2009
Units	Standards	ug/L	ug/L	ug/L	ug/L
Analyte					
PCB-1016	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1221	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1232	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1242	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1248	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1254	-	0.53 U	0.5 U	0.5 U	0.52 U
PCB-1260	-	0.53 U	0.5 U	0.5 U	0.52 U
Total PCBs	0.09	-	-	-	

Notes:

U - Analyte not detected

Table 4-1 Summary of Groundwater Elevations Columbia Mills Minetto, New York NYSDEC Site No. 7-38-012

Well	Measuring Point	8/6/2	2007	10/1/	2008	6/17/2009		
	Elevation ⁽¹⁾	DTW	Elevation	DTW	Elevation	DTW	Elevation	
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	
MW-1S	324.85	6.94	317.91	4.91	319.94	4.81	320.04	
MW-1D	325.14	3.70	321.44	1.96	323.18	1.80	323.34	
MW-2S	335.93	13.90	322.03	13.22	322.71	11.66	324.27	
MW-2D	335.90	13.95	321.95	13.39	322.51	11.77	324.13	
MW-3S	316.02	6.42	309.60	5.71	310.31	5.76	310.26	
MW-3D	315.79	8.23	307.56	16.52	299.27	22.03	293.76	
MW-4S	321.63	12.20	309.43	12.21	309.42	11.70	309.93	
MW-4D	321.26	11.44	309.82	11.29	309.97	11.13	310.13	
LFP-1	NA	19.15	-	18.74	-	18.36	-	
LFP-2	NA	16.40	-	16.45	-	NM	-	
LFP-3	NA	14.75	-	14.20	-	14.18	-	
LFP-4	NA	13.57	-	13.40	-	13.24	-	
LFP-5	NA	17.30	-	17.32	-	17.26	-	
LFP-6	NA	14.50	-	14.19	-	13.44	-	
LFP-7	NA	NM	-	Dry	-	NM	-	
LFP-8	NA	13.92	-	13.54	-	13.21	-	
LFP-9	NA	18.20	-	18.00	-	17.93	-	
LFP-10	NA	15.18	-	14.90	-	14.90	-	
LFP-11	NA	23.77	-	23.18	-	22.89	-	
LFP-12	NA	NM	-	Dry	-	Dry	-	
LFP-13	NA	Dry	-	6.33	-	6.50	-	
LFP-14	NA	26.37	-	26.00	-	25.83	-	

Notes

(1) - Source: Malcolm Pirnie Inc. Project Number 0266319

Table 2-2, Monitoring Well and Piezometer Construction Summary

NA - Not Available

NM - Not Measured

Sample	NYSDEC	MW-1S	MW-1S	MW-1S	MW-X ⁽¹⁾	MW-X ⁽¹⁾	MW-1D	MW-1D
Date	Class GA	8/7/2007	10/1/2008	6/18/2009	10/1/2008	6/18/2009	8/7/2007	10/1/2008
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte								
PCB-1016	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
PCB-1221	-	1.1 U	1.1 U	0.52 U	1.1 U	0.5 U	1.1 U	1.0 U
PCB-1232	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
PCB-1242	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
PCB-1248	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
PCB-1254	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
PCB-1260	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.54 U	0.52 U
Total PCBs	0.09	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding NYSDEC Class GA Standard

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

Sample	NYSDEC	MW-1D	MW-2S	MW-2S	MW-2S	MW-2D	MW-2D	MW-2D
Date	Class GA	6/18/2009	8/7/2007	10/2/2008	6/18/2009	8/7/2007	10/1/2008	6/18/2009
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte								
PCB-1016	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
PCB-1221	-	0.5 U	1.1 U	1.1 U	0.5 U	1.1 U	1.1 U	0.5 U
PCB-1232	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
PCB-1242	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
PCB-1248	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
PCB-1254	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
PCB-1260	-	0.5 U	0.56 U	0.54 U	0.5 U	0.56 U	0.55 U	0.5 U
Total PCBs	0.09	-	-	-	-	-	-	-

Notes:

Concentration exceeds corresponding
NYSDEC Class GA Standard

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

Sample	NYSDEC	MW-3S	MW-3S	MW-3S	MW-3D	MW-3D	MW-3D	MW-4S
Date	Class GA	8/8/2007	10/2/2008	6/19/2009	8/8/2007	10/2/2008	6/19/2009	8/7/2007
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte								
PCB-1016	-	0.50 U	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
PCB-1221	-	1.0 U	1.1 U	0.5 U	1.0 U	1.9 U	0.54 U	1.1 U
PCB-1232	-	0.50 U	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
PCB-1242	-	0.50 U	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
PCB-1248	-	0.40 J M	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
PCB-1254	-	0.50 U	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
PCB-1260	-	0.19 JMB	0.53 U	0.5 U	0.50 U	0.93 U	0.54 U	0.56 U
Total PCBs	0.09	0.59	-	-	-	-	-	-

Notes:

Concentration exceeds corresponding
NYSDEC Class GA Standard

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

Sample	NYSDEC	MW-4S	MW-4S	MW-4D	MW-4D	MW-4D	TANK
Date	Class GA	10/1/2008	6/18/2009	8/7/2007	10/1/2008	6/18/2009	10/2/2008
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte		-					
PCB-1016	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
PCB-1221	-	1.1 U	0.5 U	1.2 U	1.0 U	0.5 U	1.1 U
PCB-1232	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
PCB-1242	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
PCB-1248	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
PCB-1254	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
PCB-1260	-	0.54 U	0.5 U	0.61 U	0.52 U	0.5 U	0.53 U
Total PCBs	0.09	-	-	-	-	-	

Notes:

Concentration exceeds corresponding
NYSDEC Class GA Standard

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

Sample	NYSDEC	MW-1S	MW-1S (D)	MW-X ⁽¹⁾	MW-X (D) ⁽¹⁾	MW-1D	MW-1D (D)
Date	Class GA	10/1/2008	6/18/2009	10/1/2008	6/18/2009	10/1/2008	6/18/2009
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Metals							
Aluminum		200 U	91.3 J	200 U	18.8 JB	200 U	21.9 JB
Antimony	3	60.0 U	3.0 U	60.0 U	3.0 U	60.0 U	3 U
Arsenic	25	10.0 U	2.0 U	10.0 U	2.0 U	10.0 U	3.7 J
Barium	1000	487	486	480	506.0	962	1030
Beryllium	3	5.0 U	0.2 U	5.0 U	0.2 U	5.0 U	0.2 U
Cadmium	5	0.89 J	0.3 J	5.0 U	0.4 J	5.0 U	0.3 U
Calcium		50800	51500	50100	53600 B	29200	31700 B
Chromium	50	0.55 J	0.3 J	2.3 J	0.3 U	10.0 U	0.3 U
Cobalt		0.56 J	0.8 J	50.0 U	0.7	50.0 U	0.5 U
Copper	200	25.0 U	1.3 U	25.0 U	1.3 U	25.0 U	1.3 U
Cyanide		10 U	U	10 U		10 U	
Iron	300	509	499	539	546 B	433	407 B
Lead	25	10.0 U	1.0 U	10.0 U	1.0 U	10.0 U	1 U
Magnesium	35,000*	11600	11700	11300	12100 B	7970	8730 B
Manganese	300	116	103.0	119	109	91.5	104
Mercury	1	0.20 U	0.1 U	0.20 U	0.1 U	0.20 U	0.1 U
Nickel	100	40.0 U	1.0 U	3.4 J	1.0 J	40.0 U	1 U
Potassium		1590 J	1270 J	2820 J	1330.0	3590 J	3420
Selenium	10	35.0 U	6.1 U	35.0 U	6.1 U	35.0 U	6.1 U
Silver	50	10.0 U	0.8 U	10.0 U	0.8 U	10.0 U	0.8 U
Sodium	20000	14500	13800	14200	14300.0	27200	28800
Thallium	0.5*	25.0 U	5.9 U	25.0 U	5.9 U	25.0 U	5.9 U
Vanadium		50.0 U	0.5 U	0.69 J	0.7 J	50.0 U	0.5 U
Zinc	2,000*	1.3 J	1.0 U	6.3 J	1.3 J	1.6 J	1 J

Notes:

- Concentration exceeds corresponding NYSDEC Class GA Standard

U - Analyte not detected

* - NYSDEC Class GA Guidance Value

(1) - MW-X is a duplicate sample collected at MW-1S

D - Sample was Dissolved

Sample	NYSDEC	MW-2S	MW-2S	MW-2S (D)	MW-2D	MW-2D	MW-2D (D)
Date	Class GA	10/2/2008	6/19/2009	6/19/2009	10/1/2008	6/18/2009	6/18/2009
Units	Standards	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Metals							
Aluminum		284	246	11.0 U	207	204	75.7 JB
Antimony	3	60.0 U	3 U	3.0 U	60.0 U	3.0 U	3.0 U
Arsenic	25	10.0 U	2 U	2.6 J	10.0 U	2.0 U	2.0 U
Barium	1000	319	239	236	288	239	234
Beryllium	3	5.0 U	0.2 U	0.2 U	5.0 U	0.2 U	0.2 U
Cadmium	5	5.0 U	0.3 U	0.3 U	5.0 U	0.3 U	0.3 U
Calcium		87800	71800	74300 B	69500	65000	66300 B
Chromium	50	0.91 J	0.5 J	0.6	0.63 J	0.3 U	0.3 U
Cobalt		50.0 U	0.5 U	0.5 U	50.0 U	0.5 U	0.6 JB
Copper	200	3.1 J	1.3 J	1.3 U	25.0 U	1.3 U	1.3 U
Cyanide		3.9 J			10 U		
Iron	300	365	136	19.3 U	216	132	19.3 U
Lead	25	2.2 J	1 J	1.0 U	10.0 U	1.0 U	1.0 U
Magnesium	35,000*	12300	9760 B	10200 B	16400	15800 B	16100 B
Manganese	300	16.5	4.3 J	0.2 J	53.7	134	185
Mercury	1	0.20 U	0.1 U	0.1 U	0.20 U	0.1 U	0.1 U
Nickel	100	40.0 U	1 J	1.3	40.0 U	1.1 J	1.0 U
Potassium		1480 J	1190 J	1210	1370 J	1090 J	1100
Selenium	10	35.0 U	6.1 U	6.1 U	35.0 U	6.1 U	6.1 U
Silver	50	10.0 U	0.8 U	0.8 U	10.0 U	0.8 U	0.8 U
Sodium	20000	6690	5070	5230	7560	6280	6660
Thallium	0.5*	25.0 U	5.9 U	5.9 U	25.0 U	5.9 U	5.9 U
Vanadium		50.0 U	0.6 J	0.5 U	50.0 U	0.5 U	0.5 U
Zinc	2,000*	1.9 J	1.9 J	2.0 J	1.9 J	2.8 J	2.8 J

Notes:

Concentration exceeds corresponding
NYSDEC Class GA Standard

U - Analyte not detected

* - NYSDEC Class GA Guidance Value

(1) - MW-X is a duplicate sample collected at MW-1S

D - Sample was Dissolved

Sample	NYSDEC	MW-4S	MW-4S	MW-4S (D)	MW-4D	MW-4D	MW-4D (D)	TANK
Date	Class GA	10/1/2008	6/18/2009	6/18/2009	10/1/2008	6/18/2009	6/18/2009	10/2/2008
Units	Standards	ug/L						
Metals								
Aluminum		200 U	170 J	201 B	200 U	76.5 J	11 U	200 U
Antimony	3	60.0 U	3.0 U	3.0 U	60.0 U	3.0 U	3 U	60.0 U
Arsenic	25	10.0 U	2.3 J	2.0 U	10.0 U	2.0 U	2 U	10.0 U
Barium	1000	363	380	377	277	348	384	64.4 J
Beryllium	3	5.0 U	0.2 U	0.2 U	5.0 U	0.2 U	0.2 U	5.0 U
Cadmium	5	5.0 U	0.3 U	0.3 U	5.0 U	0.3 U	0.3 J	5.0 U
Calcium		60300	68700	69100 B	28000	36700	40700 B	25300
Chromium	50	10.0 U	0.3 U	0.3 U	10.0 U	0.3 U	0.3 U	0.60 J
Cobalt		50.0 U	0.5 U	0.7 JB	50.0 U	0.5 U	0.6 JB	50.0 U
Copper	200	25.0 U	1.3 U	1.3 U	25.0 U	1.3 U	1.3 U	25.0 U
Cyanide		6.2 J			10 U			10 U
Iron	300	1680	1830	1820 B	146	184	203 B	98.1 J
Lead	25	10.0 U	1.0 U	1.0 U	2.2 J	1.0 U	1 U	2.0 J
Magnesium	35,000*	13900	15100 B	15200 B	8020	10200 B	11200 B	4740 J
Manganese	300	740	941	927	148	265	288	4.6 J
Mercury	1	0.20 U	0.1 U	0.1 U	0.20 U	0.1 U	0.1 U	0.20 U
Nickel	100	40.0 U	1.6 J	1.0 J	40.0 U	1.0 U	1 U	40.0 U
Potassium		4620 J	4220 J	4270	4020 J	3880 J	4430	4340 J
Selenium	10	35.0 U	6.1 U	6.1 U	35.0 U	6.1 U	6.1 U	35.0 U
Silver	50	10.0 U	0.8 U	0.8 U	10.0 U	0.8 U	0.8 U	10.0 U
Sodium	20000	34900	23000	23100	108000	68600	77500	26300
Thallium	0.5*	25.0 U	5.9 U	5.9 U	25.0 U	5.9 U	5.9 U	25.0 U
Vanadium		50.0 U	0.5 U	0.6 J	0.67 J	0.5 U	0.7 J	50.0 U
Zinc	2,000*	1.6 J	2.2 J	1.5 J	1.4 J	1.3 J	1 U	3.9 J

Notes:

Concentration exceeds corresponding
NYSDEC Class GA Standard

U - Analyte not detected

* - NYSDEC Class GA Guidance Value

(1) - MW-X is a duplicate sample collected at MW-1S

D - Sample was Dissolved

Table 4-4 Summary of Surface Water Sampling Results - Metals Columbia Mills Minetto, New York NYSDEC Site No. 7-38-012

Sample	NYSDEC	NYSDEC	POND	STREAM
Date	Class GA	Class AA	6/18/2009	6/18/2009
Units	Standards	Standards	ug/L	ug/L
Dissolved Metals				
Aluminum		100	19.9 JB	139 JB
Antimony	3	3	3.0 U	3.0 U
Arsenic	25	50	2.0 U	2.0 U
Barium	1000	1000	60.3	64.3
Beryllium	3	3	0.2 U	0.2 U
Cadmium	5	5	0.3 U	0.3 U
Calcium			35800 B	36700 B
Chromium	50	50	0.3 J	0.4 J
Cobalt		5	0.8 JB	0.8 JB
Copper	200	200	1.3 U	1.3 U
Cyanide	200	200		
Iron	300	300	173 B	448 B
Lead	25	50	1 J	1.0 U
Magnesium	35,000*	35000	8090 B	8080 B
Manganese	300	300	73.9 J	610
Mercury	0.7	0.7	0.1 U	0.1 U
Nickel	100	100	1.0 U	1.5 J
Potassium			1080	1200
Selenium	10	10	6.1 U	6.1 U
Silver	50	50	0.8 U	0.8 U
Sodium	20000		15000	17300
Thallium	0.5*	0.5*	5.9 U	5.9 U
Vanadium		14	0.5 J	0.9 J
Zinc	2,000*	2,000*	1.0 U	7.5 J

Notes:

- Concentration exceeds corresponding NYSDEC Standard

U - Analyte not detected

* - NYSDEC Class GA Guidance Value

(1) - MW-X is a duplicate sample collected at MW-1S

D - Sample was Dissolved

New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix A

Photograph Log



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Photo 1: Discharge structure to Amphibian Breeding Pond.



Photo 2: Combination Sampling Sump



COLUMBIA MILLS SITE NYSDEC SITE NUMBER 7-38-012 Copyright © 2009 Malcolm Pirnie, Inc.

APPENDIX A: PHOTOGRAPHS

FIGURE A-1



Photo 3: Fluorescent dye in leachate collection tank.



Photo 4: Inlet pipe manway and control valve.



COLUMBIA MILLS SITE NYSDEC SITE NUMBER 7-38-012 Copyright © 2009 Malcolm Pirnie, Inc.

APPENDIX A: PHOTOGRAPHS

FIGURE A-2



Photo 5: 2008 collection tank level.



Photo 6: 2009 collection tank level.



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APPENDIX A: PHOTOGRAPHS

FIGURE A-3
New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix B

DEC Site Management Photographic Report



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Columbia Mills Dye Tests

Monitoring Well Inventory, 6/18-19/09

Photos with Notes

Photo

Description

Payson Long (left) and I (small inset photo) arrived at approximately 2:30PM. Jeremy Wycoff (middle) and Jeff Redfield (right), both of Malcolm Pirnie were at work sampling groundwater.



Report by Will Welling



View back along the "spine" of the landfill towards the leachate tank.



Google Map view



Continuing a sweep to the right.



Continuing a sweep to the right.



Jeremy, left; Payson, right



Gated access to the landfill. Jeremy and Payson are opening the manhole covers in the leachate tank area.



Jeremy and Payson are opening the manhole covers in the leachate tank area.



Manhole open, tank end.



Manway riser, cover off. Water levels in both the tank and the manway riser were the same. Eventually we figured out that the influent line's collar connection to the leachate tank in the manway riser was leaky. When the leachate tank filled up, the leak allowed water to fill the manway riser and equalize to the same level as the full tank.



At 3:15PM we opened the sewer manhole cover approximately 1000 feet away. This manhole has a central sewer flow and two pipes which enter obliquely. One pipe, presumably a sewer pipe, was a 6" green pipe plastic pipe and another which was 4" white plastic (see the next photo).



Better shot of the initial conditions inside the sewer manway. The green pipe (top) is a residential sewer connection, the white pipe is our leachate line into the sewer.



Weather: Temperature in the low 60s. Misting, no wind or breeze, overcast. At 3:00 it began to rain with actual drops rather than fine mist. It was raining rather hard. Payson and I donned rain gear.



Payson talking to Jeremy.



Location: standing a the edge of the trees at the sewer looking back towards the landfill. Two old brick and stone apartment buildings are in the rear. One looks abandoned, the one closest to the landfill is occupied.



At 3:18 PM we saw slightly increased central sewer flow. Jeremy had opened the valve in the leachate manway. This valve had been in the closed position. At 8 minutes (3:18) we saw flow increase in the green pipe. Toilet flush?

3:28PM. Payson and I were in touch by cell phone and he called me to say that Jeremy dropped in the dye tablets. The tablets are orange but they make the water green like antifreeze.

3:35 Jeremy says the tank looks like antifreeze.

3:45PM The green sewer pipe has just about stopped. There has been no color change to the flow from this big pipe.

3:45:30 There is now flow from the white pipe. Not much, but some flow. It's clear aside from some pieces of organic matter like dirt. Leaf pieces and "chunks" are coming out with the water. Maybe this pipe hasn't had water flowing in it for a while and this little bit of flow is flushing it out.

3:57 No changes yet.

4:01 Greywater flows out of the green pipe. Makes suds. No color change at the white pipe.

4:06 The big pipe (flow) down the center seems to have increased. The rain has now stopped. Perhaps th big pipe was picking up some of the rain runoff. Flow has doubled.

4:23 Another slug of greywater from the green pipe. Smells like laundry detergent. Somebody is washing clothes, We are seeing the cycle of the washing machine.

4:50 No change. There has been a light mist since the previous rain seemed to have ended but now I think the more steady rain has resumed.

4:50 Another greywater flow. For the rest of the day we saw water flow from the leachate pipe in the sewer but we saw no dye.



5:05 I suspended my watch. I go to find Payson. He's been watching the pond. Photos of the mixed dye.



Jeremy produced the drawing of the tank.



Dye



Manway riser and peristaltic pump



Some measurements at the tank: One side (manway riser) has a depth of 16.6 feet and the other side has a depth of 21.7 feet. Why doesn't the shallower one have an inlet/outlet that we can feel with the stadia rod?



Stadia rod the in manway riser. We pumped some of the water out using a peristaltic pump connected to a hose weighted down so it was on the bottom.



Peristaltic sampling pump drawing from the tank.



Shot of both openings and the activity at the time.



6:00PM Back at the sewer. No change in color coming from the white pipe or the big pipe down the middle. Leachate pipe still flowing clear.



6:15 Jeremy dipped three samples one each from three pipes inside "the vault." Photos. In the photos, three fingers means the third pipe, the middle finger ("the bird") means the middle pipe and the index finger means first pipe. All dipped water samples are clear. This is a disappointment. We've dyed 10,000 gallons of water and the water coming ut of the pipes is completely clear!

We'll return tomorrow to see if the concentration of color has changed in the tank and/or in the sewer and vault monitoring locations.



Water currently flowing from the middle pipe. Here "the bird" is being used to symbolize the middle tank.



First pipe also clear. All three in the vault are running clear



6/19/2009, Friday. 8:30AM return to the site. Jeremy has been at the site since 6:45 AM. Jeremy is sampling at the vault. Camera was held down inside the vault for this photo.

Kids have been 4-wheeling and making ruts in the grass and stream which drains the perimeter of the landfill. I'm glad the landfill proper is fenced! If not it would be cut up pretty bad.



Camera was held down inside the vault for this photo.



Outlet pipe which leads to the discharge point into the amphibian breeding pond.



Amphibian pond from the edge of the woods, upon the knoll.



View just out from the woods looking back towards the vault. The amphibian pond is to the right , out of view.



Amphibian pond closest to the vault.



The cap was recently mowed. The mower had clipped an ant hill which at first I thought was a mound from a groundhog. No groundhog but I did see two holes dug by a groundhog. Photos will be later in the sequence.



Photo from the cap looking back towards the railroad tracks.



Swinging around slightly to the right with reference to the previous shot.



Photo of a fox on the slope up from the amphibian pond. The fox took off when Jeremy returned to the site with his truck. The noise spooked the fox and he ran to the woods to the rear.



Friday we obtained a diaphram pump. We pumped water here and there testing various theories. We drained the manway riser and discovered a leaky collar joint.



1:30 PM We've done a lot of work this morning and I haven't written much down. We've had success with the dye-tracing. The rain ended at about 11 (it had been lightly raining and misting) and so now I am able to put down the pencil and write my notes in ballpoint pen.

Summarizing the flows we traced: landfill "groundwater" is collected and piped to the vault in two pipes, each with a valve on the end of the pipe in the vault. One leachate system pipe discharges to the vault. It has no valve in the vault. This is the pipe we called "3" and the middle one was (the bird) and the other one was pipe #1. Leachate flows in two pipes to the tank. There is a valve at the entry to the tank (down in the man-way riser) and we believe this connection is leaky. When this valve is off (or when

the tank is full) water backs up and if valves are open to sewer and/or the vault are open, water flows there. We saw that the valve into the tanks was open. Up hill a few feet, until we opened the leachate valve to the sewer (one of the two small manholes) no water was flowing into the sewer (the white pipe). The second small manhole had a valve on the leachate line (before the tank) which controlled bypass overflow water flow to the vault. This was open when we popped the cover. We determined that since the tank was full, water was bypassing

and discharging to the amphibian pond. None of the water in the tank came out to the discharge points. We bailed and pumped it to the leachate system collection pipes and to the groundwater collection system to trace where those pipes went. They all bypassed the collection tank. We eventually got green water out of the white pipe in the sewer manhole.

We think the man-way riser should have been dry. The valve was on the bottom down 13 feet and would have to be turned with a reach rod. If the chamber were full of water, that would be unworkable. Examining carefully we saw that when we pumped the leachate tank to a few inches below the bulkhead the water stabilized at just below the collar in the other manway riser. The water level showed us where the hydraulic connection to the tank is!



Re-arrangement



First pipe inside the vault, looking for green water. No green water.



Pipes "middle" and third (most distant). The third pipe is from the groundwater collection system.



Success! We now have green dye in the first pipe inside the vault. This is a leachate pipe.



The vault slowly filled with enough dyed water so that the dye made its way into the discharge pipe. Standing at the point of discharge to the pond, water can be seen entering the amphibian pond.



Visual sample from the vault. This was just before dye reached the vault.



Visual sample from the vault



Green finally in the sewer. We had pumped some leachate into one of the leachate clean-out stickups behind the tank and the valve access manholes. About 1/2 hour later we saw the green dye.



Close-up



From the surface. Even standing over the manhole the green dye can be seen.



Another positive



Pumping down the manway riser



In pumping mode. We were draining the manway riser.



Discharge end



Tank manhole cover



Looking into the manway riser almost pumped down makes for a surreal image.



Ditto



Now the plumbing is visible. The leachate fill pipe makes a 90-degree bend just beyond the valve. In this plumbing a connection must be leaking because the water height rises to the same height as that of the tank.



Water level paused at the leaky connection.



Now drained.



Photo taken above the ground surface.



Groundwater and leachate cleanout stickups behind the tank.



Swinging a bit to the right to give proximity.



Google map

New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix C

Analytical Reporting Forms



0266363 / ALB



Analytical Report

SDG Number: 220-9422

Project Description(s) Work Order RSF0953 - NYSDEC Standby - Columbia Mills

For:

Johanna Dubauskas

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484

Saccy of Thefore

Sally Hoffman Project Manager Sally.Hoffman@testamericainc.com

Tuesday, July 7, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

TestAmerica Buffalo Current Certifications

As of 1/27/2009

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
lowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.
SAMPLE DATA SUMMARY PACKAGE



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422 4/743

Received: 06/24/09 Reported: 07/07/09 16:19

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
4-D	RSF0953-04	Water	06/18/09 12:00	06/24/09 09:10	
4-S	RSF0953-01	Water	06/18/09 08:15	06/24/09 09:10	
MW-1D	RSF0953-05	Water	06/18/09 12:30	06/24/09 09:10	
MW-1S	RSF0953-02	Water	06/18/09 11:25	06/24/09 09:10	
MW-2D	RSF0953-07	Water	06/18/09 14:20	06/24/09 09:10	
MW-2S	RSF0953-08	Water	06/19/09 06:55	06/24/09 09:10	
MW-X	RSF0953-03	Water	06/18/09 11:30	06/24/09 09:10	
POND	RSF0953-09	Water	06/18/09 14:50	06/24/09 09:10	
STREAM	RSF0953-06	Water	06/18/09 12:45	06/24/09 09:10	

5/743

<u> TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422 Received: 06/24/09 Reported: 07/07/09 16:19

DATA QUALIFIERS AND DEFINITIONS

- B Analyte was detected in the associated Method Blank.
- J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- M1 The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
 R2 The RPD exceeded the acceptance limit.
- NR Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484

SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Executive Summary - Detections											
	Sample	Data				Dil	Date	Lab			
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech Batch	Method		
Client ID: 4-D (RSF09	53-04 - Wat	er)			Sam	pled: C	6/18/09 12:00	Recvd: 06/24	/09 09:10		
CLP Metals											
Barium. Dissolved	384		2.0	0.1	ua/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Cadmium, Dissolved	0.3	J	1.0	0.3	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Calcium, Dissolved	40700	В	500	100	ua/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Cobalt, Dissolved	0.6	J. B	4.0	0.5	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Iron. Dissolved	203	B	50.0	19.3	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Magnesium, Dissolved	11200	В	200	6.0	ua/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Manganese Dissolved	288		3.0	0.1	ua/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Potassium Dissolved	4430		500	28.0	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Sodium Dissolved	77500		1000	180	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Vanadium Dissolved	0.7	J	5.0	0.5	ug/L	1.00	06/29/09 20:45	LMH 9F24077	CLP-M		
Aluminum	76.5	J	200	11.0	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Barium	348	-	200	0.1	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Calcium	36700		5000	100	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Iron	184		100	19.3	ua/L	1.00	06/27/09 02:47	'LMH 9F25007	CLP-M		
Magnesium	10200	В	5000	6.0	ug/l	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Manganese	265	-	15.0	0.1	ug/L	1.00	06/27/09 02:47	'LMH 9F25007	CLP-M		
Potassium	3880	.I	5000	28.0	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Sodium	68600	·	5000	180	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Zinc	1.3	J	60.0	1.0	ug/L	1.00	06/26/09 01:31	LMH 9F25007	CLP-M		
Client ID: 4-S (RSF095	53-01 - Wat	er)			Sam	pled: 0	6/18/09 08:15	Recvd: 06/24	/09 09:10		
CI P Metals											
Aluminum Dissolved	201	в	200	11.0	ua/l	1 00	06/29/09 20.10	IMH 9F24077	CLP-M		
Barium Dissolved	377	D	200	0.1	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
Calcium Dissolved	69100	B	500	100	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
Cobalt Dissolved	03100	I B	4.0	0.5	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
Iron Dissolved	1820	B, D	50.0	19.3	ug/L	1.00	06/29/09 20.10	LMH 9F24077	CLP-M		
Magnesium Dissolved	15200	B	200	6.0	ug/L	1.00	06/29/09 20:10	1 MH 9F24077	CLP-M		
Magnesium, Dissolved	027	D	3.0	0.0	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
Potassium Dissolved	1270		500	28.0	ug/L	1.00	06/29/09 20:10	LMH 9F24077	CLP-M		
Sodium Dissolved	23100		1000	180	ug/L	1.00	06/29/09 20:10	LMH 9F24077	CLP-M		
Vanadium Dissolved	25100	1	5.0	0.5	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
Zinc Dissolved	1.5	1	10.0	1.0	ug/L	1.00	06/29/09 20:10	IMH 9F24077	CLP-M		
	1.5	1	200	11.0	ug/L	1.00	06/26/09 01:26	IMH 9F25007	CLP-M		
Arsonio	22	J	10.0	2.0	ug/L	1.00	06/26/09 01:26	IMH 9F25007	CLP-M		
Borium	2.3	5	200	0.1	ug/L	1.00	06/26/09 01:26	IMH 9F25007	CLP-M		
Calcium	68700		5000	100	ug/L	1.00	06/26/09 01:26	MH 9F25007	CLP-M		
Iron	1820		100	193	ug/L	1 00	06/27/09 02:42	LMH 9F25007	CLP-M		
Magnasium	1630	R	5000	60	ug/L	1.00	06/26/09 01:26	IMH 9F25007	CLP-M		
Manganese	0/1	U	15.0	0.0	ug/L	1.00	06/27/09 02:42	IMH 9F25007	CLP-M		
Nickol	341	1	40.0	10	ug/L	1 00	06/26/09 01.26	LMH 9F25007	CLP-M		
Potossium	4220	5	5000	28.0	ug/L	1 00	06/26/09 01:26	SIMH 9F25007	CLP-M		
Sodium	72000	0	5000	180	ug/L	1 00	06/26/09 01:26	LMH 9F25007	CLP-M		
Zinc	20000	J	60.0	1.00	ug/c un/l	1.00	06/26/09 01:26	LMH 9F25007	CLP-M		
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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484

SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

		Ex	ecutive	Summai	ry - Dete	ctions	i			
	Sample	Data				Dil	Date	Lab	.	
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
Client ID: MW-1D (RSI	- 0953-05	Water)			Sampled: 06/18/09 12:30 Recvd: 06/24/09 09:					
CLP Metals										
Aluminum, Dissolved	21.9	J, B	200	11.0	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Arsenic, Dissolved	3.7	J	10.0	2.0	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Barium, Dissolved	1030		2.0	0.1	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Calcium, Dissolved	31700	В	500	100	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Iron, Dissolved	407	В	50.0	19.3	ua/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Magnesium, Dissolved	8730	В	200	6.0	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Manganese, Dissolved	104		3.0	0.1	ua/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Potassium, Dissolved	3420		500	28.0	ua/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Sodium, Dissolved	28800		1000	180	ua/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Zinc, Dissolved	1.0	J	10.0	1.0	ug/L	1.00	06/29/09 21:03	LMH	9F24077	CLP-M
Client ID: MIN/ 18 (PSE		Mator)			Sam	nled: (16/18/09 11.25	Rec	vd· 06/24	/09 09·10
Chefit ID. MAA-12 (K2)	-0955-02 -	walei)			Jam	ipicu. c	0/10/05 11.20	Nee	vu. 00/2-1	
<u>CLP Metals</u>										
Aluminum, Dissolved	91.3	J, B	200	11.0	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Barium, Dissolved	486		2.0	0.1	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Calcium, Dissolved	51500	В	500	100	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Iron, Dissolved	499	В	50.0	19.3	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Magnesium, Dissolved	11700	В	200	6.0	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Manganese, Dissolved	103		3.0	0.1	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Potassium, Dissolved	1270		500	28.0	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Sodium, Dissolved	13800		1000	180	ug/L	1.00	06/29/09 20:15	LMH	9F24077	CLP-M
Client ID: MW-2D (RSI	- 0953-07	Water)			Sam	pled: (6/18/09 14:20	Rec	vd: 06/24	/09 09:10
CLP Metals										
Aluminum, Dissolved	75.7	J. B	200	11.0	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Barium, Dissolved	234	,	2.0	0.1	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Calcium. Dissolved	66300	В	500	100	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Cobalt, Dissolved	0.6	J. B	4.0	0.5	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Magnesium, Dissolved	16100	B	200	6.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Manganese, Dissolved	185		3.0	0.1	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Potassium, Dissolved	1100		500	28.0	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Sodium. Dissolved	6660		1000	180	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Zinc. Dissolved	2.8	J	10.0	1.0	ua/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Aluminum	204		200	11.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Barium	239		200	0.1	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Calcium	65000		5000	100	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Iron	132		100	19.3	ua/L	1.00	06/27/09 03:12	LMH	9F25007	CLP-M
Magnesium	15800	В	5000	6.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Manganese	134		15.0	0.1	ua/L	1.00	06/27/09 03:12	LMH	9F25007	CLP-M
Nickel	1.1	J	40.0	1.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Potassium	1090	J	5000	28.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Sodium	6280		5000	180	uq/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Zinc	2.8	J	60.0	1.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Executive Summary - Detections										
	Sample	Data				Dil	Date	Lab		
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
Client ID: MW-2S (RSF	- 0953-08	Water)			Sam	pled: C	6/19/09 06:55	Rec	vd: 06/24	/09 09:10
CLP Metals										
Arsenic, Dissolved	2.6	J	10.0	2.0	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Barium, Dissolved	236		2.0	0.1	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Calcium, Dissolved	74300	В	500	100	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Chromium, Dissolved	0.6	J	4.0	0.3	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Magnesium, Dissolved	10200	В	200	6.0	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Manganese, Dissolved	0.2	J	3.0	0.1	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Nickel, Dissolved	1.3	J	10.0	1.0	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Potassium, Dissolved	1210		500	28.0	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Sodium, Dissolved	5230		1000	180	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Zinc, Dissolved	2.0	J	10.0	1.0	ug/L	1.00	06/29/09 21:17	LMH	9F24077	CLP-M
Aluminum	246		200	11.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Barium	239		200	0.1	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Calcium	71800		5000	100	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Chromium	0.5	J	10.0	0.3	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Iron	136		100	19.3	ug/L	1.00	06/27/09 03:17	LMH	9F25007	CLP-M
Magnesium	9760	В	5000	6.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Manganese	4.3	J	15.0	0.1	ug/L	1.00	06/27/09 03:17	LMH	9F25007	CLP-M
Nickel	1.0	J	40.0	1.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Potassium	1190	J	5000	28.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Sodium	5070		5000	180	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Vanadium	0.6	J	50.0	0.5	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Zinc	1.9	J	60.0	1.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Client ID: MW-X (RSF0)953-03 - V	Vater)			Sam	pled: C	6/18/09 11:30	Rec	vd: 06/24	/09 09:10
CLP Metals										
Aluminum, Dissolved	18.8	J, B	200	11.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Barium, Dissolved	506		2.0	0.1	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Cadmium, Dissolved	0.4	J	1.0	0.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Calcium, Dissolved	53600	В	500	100	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Cobalt, Dissolved	0.7	J, B	4.0	0.5	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Iron, Dissolved	546	В	50.0	19.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Magnesium, Dissolved	12100	В	200	6.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Manganese, Dissolved	109		3.0	0.1	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Potassium, Dissolved	1330		500	28.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Sodium, Dissolved	14300		1000	180	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Vanadium, Dissolved	0.7	J	5.0	0.5	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Zinc, Dissolved	1.3	J	10.0	1.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Executive Summary - Detections											
	Sample	Data				Dil	Date	Lab			
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method	
Client ID: POND (RSF0	953-09 - V	Vater)			Sam	pled: 0	6/18/09 14:50	Rec	vd: 06/24	09 09:10	
CLP Metals											
Aluminum, Dissolved	19.9	J, B	200	11.0	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Barium, Dissolved	60.3		2.0	0.1	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Calcium, Dissolved	35800	В	500	100	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Iron, Dissolved	173	В	50.0	19.3	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Magnesium, Dissolved	8090	В	200	6.0	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Manganese, Dissolved	73.9		3.0	0.1	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Potassium, Dissolved	1080		500	28.0	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Sodium, Dissolved	15000		1000	180	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Vanadium, Dissolved	0.5	J	5.0	0.5	ug/L	1.00	06/29/09 21:22	LMH	9F24077	CLP-M	
Client ID: STREAM (RS	SF0953-06	- Water)			Sam	pled: 0	6/18/09 12:45	Rec	vd: 06/24	/09 09:10	
CLP Metals											
Aluminum, Dissolved	139	J. B	200	11.0	ua/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Barium, Dissolved	64.3	-,	2.0	0.1	ua/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Calcium, Dissolved	36700	В	500	100	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Chromium, Dissolved	0.4	J	4.0	0.3	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Iron. Dissolved	448	В	50.0	19.3	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Magnesium, Dissolved	8080	В	200	6.0	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Manganese, Dissolved	610		3.0	0.1	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Nickel, Dissolved	1.5	J	10.0	1.0	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Potassium, Dissolved	1200		500	28.0	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Sodium, Dissolved	17300		1000	180	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Vanadium, Dissolved	0.9	J	5.0	0.5	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	
Zinc, Dissolved	7.5	J	10.0	1.0	ug/L	1.00	06/29/09 21:08	LMH	9F24077	CLP-M	

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Analytical Report										
	Sample	Data		-	-	Dil	Date	Lab		
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
Client ID: 4-D (RSF095	53-04 - Wat	er)			Sam	pled: 0	6/18/09 12:00	Rec	vd: 06/24	/09 09:10
CLP Metals										
Aluminum, Dissolved	ND		200	11.0	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Barium, Dissolved	384		2.0	0.1	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Bervllium. Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Cadmium, Dissolved	0.3	J	1.0	0.3	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Calcium, Dissolved	40700	В	500	100	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Chromium, Dissolved	ND		4.0	0.3	uq/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Cobalt Dissolved	0.6	J. B	4.0	0.5	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Copper Dissolved	ND	-, -	10.0	1.3	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Iron. Dissolved	203	В	50.0	19.3	uq/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Lead Dissolved	ND	-	5.0	1.0	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Magnesium, Dissolved	11200	В	200	6.0	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Manganese Dissolved	288	_	3.0	0.1	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Mercury Dissolved			0.2	0.1	ua/L	1.00	07/02/09 14:35	5 MM	9G02014	CLP-M
Nickel Dissolved	ND		10.0	1.0	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Potassium Dissolved	4430		500	28.0	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Selenium Dissolved	ND		15.0	61	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Silver Dissolved	ND		3.0	0.8	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Sodium Dissolved	77500		1000	180	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Thallium Dissolved	ND		20.0	5.9	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Vanadium Dissolved	0.7	J	5.0	0.5	ug/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Zinc Dissolved	ND	-	10.0	1.0	ua/L	1.00	06/29/09 20:45	5 LMH	9F24077	CLP-M
Aluminum	76.5	.1	200	11.0	ua/L	1.00	06/26/09 01:31	1 LMH	9F25007	CLP-M
Antimony	ND	•	60.0	3.0	ua/L	1.00	06/26/09 01:31	1 LMH	9F25007	CLP-M
Arsenic	ND		10.0	2.0	ua/L	1.00	06/26/09 01:3	I LMH	9F25007	CLP-M
Barium	348		200	0.1	ua/L	1.00	06/26/09 01:31	I LMH	9F25007	CLP-M
Bervllium	ND		5.0	0.2	ua/L	1.00	06/26/09 01:3 ⁴	I LMH	9F25007	CLP-M
Cadmium	ND		5.0	0.3	ua/L	1.00	06/26/09 01:3	I LMH	9F25007	CLP-M
Calcium	36700		5000	100	ua/L	1.00	06/26/09 01:3 ⁴	1 LMH	9F25007	CLP-M
Chromium	ND		10.0	0.3	ua/L	1.00	06/26/09 01:3 ⁴	I LMH	9F25007	CLP-M
Cobalt	ND		50.0	0.5	ua/L	1.00	06/26/09 01:3	1 LMH	9F25007	CLP-M
Copper	ND		25.0	1.3	ua/L	1.00	06/26/09 01:31	1 LMH	9F25007	CLP-M
Iron	184		100	19.3	ua/L	1.00	06/27/09 02:47	7 LMH	9F25007	CLP-M
Lead	ND		10.0	1.0	ug/L	1.00	06/29/09 22:16	5 LMH	9F25007	CLP-M
Magnesium	10200	В	5000	6.0	ua/L	1.00	06/26/09 01:31	1 LMH	9F25007	CLP-M
Manganese	265		15.0	0.1	ua/L	1.00	06/27/09 02:47	7 LMH	9F25007	CLP-M
Mercury	ND		0.2	0.1	ua/L	1.00	07/02/09 14:07	7 MM	9G02013	CLP-M
Nickel	ND		40.0	1.0	ua/L	1.00	06/26/09 01:3	I LMH	9F25007	CLP-M
Potassium	3880	J	5000	28.0	ua/L	1.00	06/26/09 01:31	I LMH	9F25007	CLP-M
Selenium	ND	-	35.0	6.1	ua/L	1.00	06/26/09 01:3	I LMH	9F25007	CLP-M
Silver	ND		10.0	0.8	ug/L	1.00	06/26/09 01:31	I LMH	9F25007	CLP-M
Sodium	68600		5000	180	uq/L	1.00	06/26/09 01:3	1 LMH	9F25007	CLP-M
Thallium	ND		25.0	5.9	ua/L	1.00	06/26/09 01:3	1 LMH	9F25007	CLP-M
Vanadium	ND		50.0	0.5	ug/L	1.00	06/26/09 01:3	1 LMH	9F25007	CLP-M
Zinc	1.3	J	60.0	1.0	ug/L	1.00	06/26/09 01:3	1 LMH	9F25007	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Sample Result Data Qualifiers RL MDL Units Fac Analyzed Tach Batch Method Clemen LD: - 4-5 (R\$F0953-01 - Water) Sampled: 06/18/09 08:15 Recv: 08/28/09 09:10 CLP Metals Auminum, Dissolved 201 B 200 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Antimory, Dissolved ND 20.0 3.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Antimory, Dissolved ND 2.0 0.2 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Barium, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobati, Dissolved ND 5.0 1.0 <td< th=""><th colspan="11">Analytical Report</th></td<>	Analytical Report										
Analyte Result Qualifiers RL MDL Units Fac Nanized Tech Platting Client ID: 4-S (RSF0953-01 - Water) Sampled: 06/18/09 08:15 Recvci: 06/24/09 09:10 CLP Metals Auminum, Dissolved ND 20.0 3.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Armimory, Dissolved ND 1.00 02/29/09 20:10 LMH 9F24077 CLP-M Beryllium, Dissolved ND 1.00 02/29/09 20:10 LMH 9F24077 CLP-M Catarim, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Catarim, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 5.0 1.0 ug/L 1.00<		Sample	Data		-	-	Dil	Date	Lab	D (1	
Client ID: 4-S (RSF0953-01 - Water) Sampled: 06/18/09 08:15 Recvd: 06/24/09 09:10 CLP Matals	Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
CLP Metals view	Client ID: 4-S (RSF095	53-01 - Wat	er)			Sam	pled: (06/18/09 08:15	Rec	vd: 06/24	/09 09:10
Aluminum, Dissolved 201 B 200 11.0 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Artimory, Dissolved ND 10.0 2.0 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Barium, Dissolved ND 2.0 0.2 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Cadmium, Dissolved ND 1.0 0.3 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.3 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Coper, Dissolved ND 1.0 1.3 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Magnesim, Dissolved ND 1.0.0 1.3 ug/L 1.00 66729/09 20:10 LMH 9F24077 CLP-M Magnesim, Dissolved ND	<u>CLP Metals</u>										
Antimory, Dissolved ND 20.0 3.0 ug/L 1.00 66/23/09 20.10 LMH 97/24077 CLP-M Barium, Dissolved 377 2.0 0.1 ug/L 1.00 66/23/09 20.10 LMH 97/24077 CLP-M Berylium, Dissolved ND 2.0 0.2 ug/L 1.00 06/23/09 20.10 LMH 97/24077 CLP-M Cadmium, Dissolved ND 1.0 0.3 ug/L 1.00 06/23/09 20.10 LMH 97/24077 CLP-M Cadmium, Dissolved ND 4.0 0.3 ug/L 1.00 06/23/09 20.10 LMH 97/24077 CLP-M Cobalt, Dissolved ND 1.0 1.3 ug/L 1.00 06/23/09 20.10 LMH 97/24077 CLP-M Maganesum, Dissolved ND 5.0 1.0 ug/L 1.00 06/23/09 20.10 LMH 97/24077 CLP-M Maraganesum, Dissolved ND <td< td=""><td>Aluminum, Dissolved</td><td>201</td><td>В</td><td>200</td><td>11.0</td><td>ug/L</td><td>1.00</td><td>06/29/09 20:10</td><td>) LMH</td><td>9F24077</td><td>CLP-M</td></td<>	Aluminum, Dissolved	201	В	200	11.0	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Arsenic, Dissolved ND 10.0 2.0 ug/L 10.0 06/29/09 20:10 LMH 9F24077 CLP-M Barium, Dissolved ND 2.0 0.2 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cadmium, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 1.0 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Coper, Dissolved ND 1.0 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 0.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Margnesium, Dissolved ND 0.0	Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Barium, Dissolved 377 2.0 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cadrium, Dissolved ND 1.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobait, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobait, Dissolved ND 1.00 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Iron, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesei, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 0.2 <	Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Berylium, Dissolved ND 2.0 0.2 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cadmium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 1.0 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Coper, Dissolved ND 5.0 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Storisolisolved ND 0.0 <td>Barium, Dissolved</td> <td>377</td> <td></td> <td>2.0</td> <td>0.1</td> <td>ug/L</td> <td>1.00</td> <td>06/29/09 20:10</td> <td>) LMH</td> <td>9F24077</td> <td>CLP-M</td>	Barium, Dissolved	377		2.0	0.1	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Cadimum, Dissolved ND 1.0 0.3 ug/L 1.0 0.622/09 20:10 LMH 9F24077 CLP-M Calcium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobat, Dissolved 0.7 J, B 4.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobat, Dissolved ND 1.00 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Lead, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 1.0.0 1.0 06/29/09 20:10 LMH 9F24077 CLP-M Solatium, Dissolved ND 1.0.0 06/29/09 20:10 LMH 9F24077 CLP-M Solatium, Dissolved ND <td< td=""><td>Beryllium, Dissolved</td><td>ND</td><td></td><td>2.0</td><td>0.2</td><td>ug/L</td><td>1.00</td><td>06/29/09 20:10</td><td>) LMH</td><td>9F24077</td><td>CLP-M</td></td<>	Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Calcium, Dissolved 69100 B 500 100 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 10.0 0.5 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 10.0 1.3 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Iron, Dissolved ND 5.0 19.3 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 5.0 1.0 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Magnesium, Dissolved ND 0.2 0.1 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Nckel, Dissolved ND 10.0 1.0 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 3.0 0.8 ug/L 1.00 06/23/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND	Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Chromium, Dissolved ND 4.0 0.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Cobalt, Dissolved ND 10.0 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Copper, Dissolved 1820 B 50.0 19.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnescium, Dissolved 1820 B 50.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Manganesc, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Marcury, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Disso	Calcium, Dissolved	69100	В	500	100	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Cobalt, Dissolved 0,7 J, B 4.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Copper, Dissolved ND 50.0 19.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Lead, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Marganesim, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Marganesim, Dissolved 927 3.0 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Mercury, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Potassium, Dissolved ND 50.0 28.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 </td <td>Chromium, Dissolved</td> <td>ND</td> <td></td> <td>4.0</td> <td>0.3</td> <td>ug/L</td> <td>1.00</td> <td>06/29/09 20:10</td> <td>) LMH</td> <td>9F24077</td> <td>CLP-M</td>	Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Copper, Dissolved ND 10.0 1.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Iron, Dissolved ND 5.0 19.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesse, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnesse, Dissolved ND 0.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Marganese, Dissolved ND 0.2 0.1 ug/L 1.00 07/02/09 14:30 MM 96/2014 CLP-M Nickel, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077	Cobalt, Dissolved	0.7	J, B	4.0	0.5	ug/L	1.00	06/29/09 20:10) LMH	9F24077	CLP-M
Iron, Dissolved 1820 B 50.0 19.3 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Lead, Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Manganese, Dissolved 927 3.0 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Mickel, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 1.00 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Soleinum, Dissolved ND 1.50 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Tinc, Dissolved ND 5.0 0.5	Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Leak Dissolved ND 5.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Magnanese, Dissolved 927 3.0 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Mercury, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Potassium, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Soleium, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Soleium, Dissolved ND 2.00 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved ND 2.00 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Anamiony ND 5.0	Iron, Dissolved	1820	В	50.0	19.3	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Magnesium, Dissolved 15200 B 200 6.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Marganese, Dissolved ND 0.2 0.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Nickel, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Potassium, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Soleinum, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Soleinum, Dissolved ND 2.0.0 1.80 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 2.0.0 1.00 08/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 2.00 11.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J	Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Marganese, Dissolved 927 3.0 0.1 ug/L 1.00 66/29/09 20:10 LMH 9F24077 CLP-M Mercury, Dissolved ND 0.2 0.1 ug/L 1.00 07/02/09 14:30 MM 9G2014 CLP-M Potassium, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Selenium, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solium, Dissolved ND 2.00 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum Dissolved 1.5 J 1.0.0 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum DTO 5.0 0	Magnesium, Dissolved	15200	В	200	6.0	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Mercury, Dissolved ND 0.2 0.1 ug/L 1.00 07/02/09 14:30 MM 9G02014 CLP-M Nickel, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Selenium, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Solum, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved 1.6 J 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26	Manganese, Dissolved	927		3.0	0.1	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Nickel, Dissolved ND 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Potassium, Dissolved A270 500 28.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Silver, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Sodium, Dissolved X3100 1000 180 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F24077 CLP-M Attiminum 170 J 200 1.0 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 <td< td=""><td>Mercury, Dissolved</td><td>ND</td><td></td><td>0.2</td><td>0.1</td><td>ug/L</td><td>1.00</td><td>07/02/09 14:30</td><td>MM</td><td>9G02014</td><td>CLP-M</td></td<>	Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:30	MM	9G02014	CLP-M
Potassium, Dissolved 4270 500 28.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Selenium, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Sodium, Dissolved 23100 1000 180 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Yanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Zinc, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 </td <td>Nickel, Dissolved</td> <td>ND</td> <td></td> <td>10.0</td> <td>1.0</td> <td>ug/L</td> <td>1.00</td> <td>06/29/09 20:10</td> <td>LMH</td> <td>9F24077</td> <td>CLP-M</td>	Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Selenium, Dissolved ND 15.0 6.1 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Silver, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Sodium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26 LMH 9F24077 CLP-M Aluminum 170 J 200 11 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium	Potassium, Dissolved	4270		500	28.0	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Silver, Dissolved ND 3.0 0.8 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Sodium, Dissolved ND 20:0 5.9 ug/L 1:00 06/29/09 20:10 LMH 9F24077 CLP-M Thallium, Dissolved ND 20:0 5.9 ug/L 1:00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 0.6 J 5:0 0.5 ug/L 1:00 06/29/09 20:10 LMH 9F24077 CLP-M Autiminum 170 J 200 11:0 ug/L 1:00 06/26/09 01:26 LMH 9F25007 CLP-M Antimony ND 60:0 3:0 ug/L 1:00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1:00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5:0	Selenium, Dissolved	ND		15.0	6.1	ua/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Sodium, Dissolved 23100 1000 180 ug/L 1.00 66/29/09 20:10 LMH 9F24077 CLP-M Thallium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Zinc, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/28/09 20:10 LMH 9F25007 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/28/09 01:26 LMH 9F25007 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/28/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/28/09 01:26 LMH 9F25007 CLP-M Cadmium	Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Thallium, Dissolved ND 20.0 5.9 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Vanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Zinc, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Codatium ND <td>Sodium, Dissolved</td> <td>23100</td> <td></td> <td>1000</td> <td>180</td> <td>ug/L</td> <td>1.00</td> <td>06/29/09 20:10</td> <td>LMH</td> <td>9F24077</td> <td>CLP-M</td>	Sodium, Dissolved	23100		1000	180	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Vanadium, Dissolved 0.6 J 5.0 0.5 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Zinc, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26 LMH 9F24077 CLP-M Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F24077 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700	Thallium, Dissolved	ND		20.0	5.9	uɑ/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Zinc, Dissolved 1.5 J 10.0 1.0 ug/L 1.00 06/29/09 20:10 LMH 9F24077 CLP-M Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadinum ND 50.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Chromium ND 50.0 0.5<	Vanadium, Dissolved	0.6	J	5.0	0.5	ug/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Aluminum 170 J 200 11.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium ND 5.0 0.2 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700 5000 100 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 10.0 0.5 ug/L	Zinc Dissolved	1.5	J	10.0	1.0	ua/L	1.00	06/29/09 20:10	LMH	9F24077	CLP-M
Antimony ND 60.0 3.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Beryllium ND 5.0 0.2 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700 5000 100 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 10.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Copper ND 10.0 1.3 ug/L 1.00	Aluminum	170	J	200	11.0	ua/L	1.00	06/26/09 01:26	5 LMH	9F25007	CLP-M
Arsenic 2.3 J 10.0 2.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Beryllium ND 5.0 0.2 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.2 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700 50.0 0.5 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Chromium ND 10.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 10.0 1.3 ug/L 1.00	Antimony	ND	-	60.0	3.0	ua/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Barium 380 200 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Beryllium ND 5.0 0.2 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700 5000 100 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Chromium ND 10.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 50.0 0.5 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 50.0 0.5 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Iron 1830 100 19.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00	Arsenic	23	J	10.0	2.0	ua/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Barnini Boo	Barium	380	C C	200	0.1	ua/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Dotyment ND So One Optimize Optimize Optimize CLP-M Cadmium ND 5.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Calcium 68700 5000 100 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Chromium ND 10.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 50.0 0.5 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Copper ND 25.0 1.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Lead ND 10.0 19.3 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Margnesium 15.0 0.1 ug/L 1.00 06/26/09 01:26 LMH <	Beryllium			50	0.2	ua/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Oddminin Ho <	Cadmium	ND		5.0	0.3	ua/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Outchin ND 10.0 0.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Cobalt ND 50.0 0.5 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Copper ND 25.0 1.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Iron 1830 100 19.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Lead ND 10.0 19.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Mercury ND 0.2 0.1	Calcium	68700		5000	100	ug/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Online ND 100 0.0 ug/L 100 06/26/09 01:26 LMH 9F25007 CLP-M Copper ND 25.0 1.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Iron 1830 100 19.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Lead ND 10.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Marganese 941 15.0 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Nickel 1.6 J 40.0 1.0	Chromium			10.0	0.3	ug/l	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Observe ND 25.0 1.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Iron 1830 100 19.3 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Lead ND 10.0 19.3 ug/L 1.00 06/29/09 22:11 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Marganese 941 15.0 0.1 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1	Cobalt	ND		50.0	0.5	ug/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Iron 1830 100 19.3 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Lead ND 10.0 1.0 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Marganese 941 15.0 0.1 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 <td>Copper</td> <td>ND</td> <td></td> <td>25.0</td> <td>1.3</td> <td>ug/L</td> <td>1.00</td> <td>06/26/09 01:26</td> <td>LMH</td> <td>9F25007</td> <td>CLP-M</td>	Copper	ND		25.0	1.3	ug/L	1.00	06/26/09 01:26	LMH	9F25007	CLP-M
Nn ND 10.0 1.0 ug/L 1.00 06/29/09 22:11 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/29/09 22:11 LMH 9F25007 CLP-M Magnesium 15100 B 5000 6.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Manganese 941 15.0 0.1 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Potassium 4220 J 5000 28.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Silver ND 10.0 <td>lron</td> <td>1830</td> <td></td> <td>100</td> <td>19.3</td> <td>ug/L</td> <td>1.00</td> <td>06/27/09 02:42</td> <td>LMH</td> <td>9F25007</td> <td>CLP-M</td>	lron	1830		100	19.3	ug/L	1.00	06/27/09 02:42	LMH	9F25007	CLP-M
Location ND 10.0 0.0 10.0 0.0 10.0 0.0 0.0 10.0 0.0 10.0 0.0 10.0 0.0 0.0 10.0 0.0 0.0 0.0 10.0 0.0	lead			10.0	10	ug/L	1 00	06/29/09 22:11	LMH	9F25007	CLP-M
Magnesium 15100 B 3000 0.0 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Manganese 941 15.0 0.1 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 06/27/09 02:42 LMH 9F25007 CLP-M Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Potassium 4220 J 5000 28.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Silver ND 10.0 0.8 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L	Magnesium	15100	B	5000	6.0	ug/L	1.00	06/26/09 01:26	I MH	9F25007	CLP-M
Marganesic 341 10.0 0.1 ug/L 1.00 07/02/09 14:01 MM 9602013 CLP-M Mercury ND 0.2 0.1 ug/L 1.00 07/02/09 14:01 MM 9602013 CLP-M Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Potassium 4220 J 5000 28.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Silver ND 10.0 0.8 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Magnesium	941	D	15.0	0.0	ug/L	1.00	06/27/09 02:42		9F25007	CLP-M
Nickel 1.6 J 40.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Potassium 4220 J 5000 28.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Silver ND 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 2000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Marcuny			0.2	0.1	ug/L	1.00	07/02/09 14:01	MM	9G02013	CLP-M
Nickel 1.0 3 40.0 1.0 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M Potassium ND 35.0 6.1 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M Silver ND 10.0 0.8 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01.26 LMH 9F25007 CLP-M	Nickel	16	ł	40.0	1.0	ug/L	1.00	06/26/09 01:26	SI MH	9F25007	CLP-M
Vision VD 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Selenium ND 35.0 6.1 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Silver ND 10.0 0.8 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Potassium	4220	1	5000	28.0	ug/L	1.00	06/26/09 01:26		9F25007	CLP-M
Selenium ND 35.0 0.1 ug/L 1.00 06/26/09 01:26 LMH 01/26 LMH 9F25007 CLP-M Solium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Solonium	4220	5	35.0	61	ug/L	1.00	06/26/09 01:26		9E25007	CLP-M
Solution 10.0 0.0 ug/L 1.00 00/26/09 01:26 LMH 9120007 CLP-M Sodium 23000 5000 180 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Selenium			10.0	0.1	ug/L	1 00	06/26/09 01:20		9F25007	CLP-M
Thallium ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M Virtual ND 25.0 5.9 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Sodium	22000		5000	180	ug/L	1.00	06/26/09 01:20		9F25007	CLP-M
	Thallium			25.0	50	ug/L	1 00	06/26/09 01:20		9F25007	CLP-M
	Vanadium			20.0 50.0	0.5	ug/L	1.00	06/26/09 01:20		9F25007	CLP-M
Zinc 22 I 60.0 1.0 ug/L 1.00 06/26/09 01:26 LMH 9F25007 CLP-M	Zinc	22	.1	60.0	10	ug/L	1 00	06/26/09 01:26		9F25007	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

12/743

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Analytical Report												
Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab <u>Tech</u> Bat	ch Method			
Client ID: MW-1D (RSI	- 0953-05	Water)			Sampled: 06/18/09 12:30 Recvd: 06/24/09 09							
CLP Metals												
Aluminum, Dissolved	21.9	J, B	200	11.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Arsenic, Dissolved	3.7	J	10.0	2.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Barium, Dissolved	1030		2.0	0.1	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Calcium, Dissolved	31700	В	500	100	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Cobalt, Dissolved	ND		4.0	0.5	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Iron, Dissolved	407	В	50.0	19.3	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Magnesium, Dissolved	8730	В	200	6.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Manganese, Dissolved	104		3.0	0.1	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:36	6 MM 9G02	2014 CLP-M			
Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 21:03	SLMH 9F24	077 CLP-M			
Potassium, Dissolved	3420		500	28.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Sodium, Dissolved	28800		1000	180	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Thallium, Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			
Vanadium, Dissolved	ND		5.0	0.5	ug/L	1.00	06/29/09 21:03	SLMH 9F24	077 CLP-M			
Zinc. Dissolved	1.0	J	10.0	1.0	ug/L	1.00	06/29/09 21:03	3 LMH 9F24	077 CLP-M			

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Analytical Report												
	Sample	Data				Dil	Date	Lab				
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	lech Batch	Method			
Client ID: MW-1S (RSF	- 0953-02	Water)			Sam	npled: 0	6/18/09 11:25	Recvd: 06/24	/09 09:10			
CLP Metals												
Aluminum, Dissolved	91.3	J, B	200	11.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Barium, Dissolved	486		2.0	0.1	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Calcium, Dissolved	51500	В	500	100	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Iron, Dissolved	499	В	50.0	19.3	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Magnesium, Dissolved	11700	В	200	6.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Manganese, Dissolved	103		3.0	0.1	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:32	2 MM 9G02014	CLP-M			
Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Potassium, Dissolved	1270		500	28.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Sodium, Dissolved	13800		1000	180	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Thallium, Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Vanadium, Dissolved	ND		5.0	0.5	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			
Zinc, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 20:15	5 LMH 9F24077	CLP-M			

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

14/743

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Analytical Report										
	Sample	Data		-	-	Dil	Date	Lab		
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
Client ID: MW-2D (RSI	F0953-07 -	Water)			Sam	pled: (06/18/09 14:20	Rec	vd: 06/24/	/09 09:10
CLP Metals										
Aluminum. Dissolved	75.7	J. B	200	11.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Barium, Dissolved	234		2.0	0.1	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Calcium, Dissolved	66300	В	500	100	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Cobalt, Dissolved	0.6	J, B	4.0	0.5	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Iron, Dissolved	ND		50.0	19.3	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Magnesium, Dissolved	16100	В	200	6.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Manganese, Dissolved	185		3.0	0.1	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:39	MM	9G02014	CLP-M
Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Potassium, Dissolved	1100		500	28.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Sodium, Dissolved	6660		1000	180	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Thallium. Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Vanadium. Dissolved	ND		5.0	0.5	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Zinc. Dissolved	2.8	J	10.0	1.0	ug/L	1.00	06/29/09 21:12	LMH	9F24077	CLP-M
Aluminum	204		200	11.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Antimony	ND		60.0	3.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Arsenic	ND		10.0	2.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Barium	239		200	0.1	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Bervilium	ND		5.0	0.2	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Cadmium	ND		5.0	0.3	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Calcium	65000		5000	100	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Chromium	ND		10.0	0.3	ua/L	1.00	06/26/09 01:56	5 LMH	9F25007	CLP-M
Cobalt	ND		50.0	0.5	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Copper	ND		25.0	1.3	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Iron	132		100	19.3	ua/L	1.00	06/27/09 03:12	LMH	9F25007	CLP-M
Lead	ND		10.0	1.0	ua/L	1.00	06/29/09 22:41	LMH	9F25007	CLP-M
Magnesium	15800	В	5000	6.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Manganese	134	_	15.0	0.1	ua/L	1.00	06/27/09 03:12	LMH	9F25007	CLP-M
Mercury	ND		0.2	0.1	ua/L	1.00	07/02/09 14:09	MM (9G02013	CLP-M
Nickel	11	.l	40.0	1.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Potassium	1090		5000	28.0	ug/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Selenium		v	35.0	61	ua/l	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Silver	ND		10.0	0.8	ua/l	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Sodium	6280		5000	180	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M
Thallium	ND		25.0	59	ua/l	1.00	06/26/09 01:56		9F25007	CLP-M
Vanadium	ND		50.0	0.5	ua/l	1.00	06/26/09 01:56		9F25007	CLP-M
Zinc	28	J	60.0	1.0	ua/L	1.00	06/26/09 01:56	LMH	9F25007	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Analytical Report										
Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-2S (RSI	- 0953-08	Water)			Sam	pled: 0	6/19/09 06:55	Rec	vd: 06/24	/09 09:10
CLP Metals										
Aluminum, Dissolved	ND		200	11.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 21:17	'LMH	9F24077	CLP-M
Arsenic, Dissolved	2.6	J	10.0	2.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Barium, Dissolved	236		2.0	0.1	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Bervllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 21:17	'LMH	9F24077	CLP-M
Calcium, Dissolved	74300	В	500	100	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Chromium, Dissolved	0.6	J	4.0	0.3	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Cobalt, Dissolved	ND		4.0	0.5	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Iron, Dissolved	ND		50.0	19.3	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Magnesium, Dissolved	10200	В	200	6.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Manganese, Dissolved	0.2	J	3.0	0.1	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:41	MM	9G02014	CLP-M
Nickel, Dissolved	1.3	J	10.0	1.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Potassium, Dissolved	1210		500	28.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Sodium, Dissolved	5230		1000	180	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Thallium, Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Vanadium, Dissolved	ND		5.0	0.5	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Zinc, Dissolved	2.0	J	10.0	1.0	ug/L	1.00	06/29/09 21:17	' LMH	9F24077	CLP-M
Aluminum	246		200	11.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Antimony	ND		60.0	3.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Arsenic	ND		10.0	2.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Barium	239		200	0.1	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Beryllium	ND		5.0	0.2	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Cadmium	ND		5.0	0.3	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Calcium	71800		5000	100	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Chromium	0.5	J	10.0	0.3	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Cobalt	ND		50.0	0.5	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Copper	ND		25.0	1.3	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Iron	136		100	19.3	ug/L	1.00	06/27/09 03:17	' LMH	9F25007	CLP-M
Lead	ND		10.0	1.0	ug/L	1.00	06/29/09 22:46	S LMH	9F25007	CLP-M
Magnesium	9760	В	5000	6.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Manganese	4.3	J	15.0	0.1	ug/L	1.00	06/27/09 03:17	' LMH	9F25007	CLP-M
Mercury	ND		0.2	0.1	ug/L	1.00	07/02/09 14:11	MM	9G02013	CLP-M
Nickel	1.0	J	40.0	1.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Potassium	1190	J	5000	28.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Selenium	ND		35.0	6.1	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Silver	ND		10.0	0.8	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Sodium	5070		5000	180	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Thallium	ND		25.0	5.9	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Vanadium	0.6	J	50.0	0.5	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M
Zinc	1.9	J	60.0	1.0	ug/L	1.00	06/26/09 02:01	LMH	9F25007	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

16/743

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

			An	alytical	Report					
	Sample	Data				Dil	Date	Lab		
Analyte	Result	Qualifiers	RL	MDL	Units	Fac	Analyzed	Tech	Batch	Method
Client ID: MW-X (RSF	0953-03 - V	Vater)			Sam	pled: C	06/18/09 11:30	Rec	vd: 06/24	/09 09:10
CLP Metals										
Aluminum, Dissolved	18.8	J, B	200	11.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Barium, Dissolved	506		2.0	0.1	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Cadmium, Dissolved	0.4	J	1.0	0.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Calcium, Dissolved	53600	В	500	100	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Cobalt, Dissolved	0.7	J, B	4.0	0.5	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Iron, Dissolved	546	В	50.0	19.3	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Magnesium, Dissolved	12100	В	200	6.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Manganese, Dissolved	109		3.0	0.1	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:33	MM	9G02014	CLP-M
Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Potassium, Dissolved	1330		500	28.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Sodium, Dissolved	14300		1000	180	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Thallium, Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Vanadium, Dissolved	0.7	J	5.0	0.5	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M
Zinc, Dissolved	1.3	J	10.0	1.0	ug/L	1.00	06/29/09 20:20	LMH	9F24077	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

			An	alytical	Report				
Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech Batch	Method
Client ID: POND (RSF	0953-09 - V	Vater)			Sam	pled: 0	6/18/09 14:50	Recvd: 06/24	/09 09:10
CLP Metals									
Aluminum, Dissolved	19.9	J, B	200	11.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Barium, Dissolved	60.3		2.0	0.1	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Calcium, Dissolved	35800	В	500	100	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Chromium, Dissolved	ND		4.0	0.3	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Iron, Dissolved	173	В	50.0	19.3	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Magnesium, Dissolved	8090	В	200	6.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Manganese, Dissolved	73.9		3.0	0.1	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:43	3 MM 9G02014	CLP-M
Nickel, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Potassium, Dissolved	1080		500	28.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Sodium, Dissolved	15000		1000	180	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Thallium. Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Vanadium, Dissolved	0.5	J	5.0	0.5	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M
Zinc, Dissolved	ND		10.0	1.0	ug/L	1.00	06/29/09 21:22	2 LMH 9F24077	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484

SDG Number: 220-9422

Received: 06/24/09 Reported: 07/07/09 16:19

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

			An	alytical	Report				
Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech Batch	Method
Client ID: STREAM (R	SF0953-06	- Water)			Sam	pled: C	6/18/09 12:45	Recvd: 06/24	/09 09:10
CLP Metals									
Aluminum, Dissolved	139	J, B	200	11.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Antimony, Dissolved	ND		20.0	3.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Arsenic, Dissolved	ND		10.0	2.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Barium, Dissolved	64.3		2.0	0.1	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Beryllium, Dissolved	ND		2.0	0.2	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Cadmium, Dissolved	ND		1.0	0.3	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Calcium, Dissolved	36700	В	500	100	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Chromium, Dissolved	0.4	J	4.0	0.3	ug/L	1.00	06/29/09 21:08	LMH 9F24077	CLP-M
Cobalt, Dissolved	0.8	J, B	4.0	0.5	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Copper, Dissolved	ND		10.0	1.3	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Iron, Dissolved	448	В	50.0	19.3	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Lead, Dissolved	ND		5.0	1.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Magnesium, Dissolved	8080	В	200	6.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Manganese, Dissolved	610		3.0	0.1	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Mercury, Dissolved	ND		0.2	0.1	ug/L	1.00	07/02/09 14:38	8 MM 9G02014	CLP-M
Nickel, Dissolved	1.5	J	10.0	1.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Potassium, Dissolved	1200		500	28.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Selenium, Dissolved	ND		15.0	6.1	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Silver, Dissolved	ND		3.0	0.8	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Sodium, Dissolved	17300		1000	180	ug/L	1.00	06/29/09 21:08	8 LMH 9F24077	CLP-M
Thallium, Dissolved	ND		20.0	5.9	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Vanadium, Dissolved	0.9	J	5.0	0.5	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M
Zinc, Dissolved	7.5	J	10.0	1.0	ug/L	1.00	06/29/09 21:08	3 LMH 9F24077	CLP-M

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422 Received: 06/24/09 Reported: 07/07/09 16:19

SAMPLE EXTRACTION DATA

Peremeter	Batch	Lab Numbor	Wt/Vol Extracte	l Inite	Extract	l Inite	Date Prenared	Lab Tech	Extraction Method
	Daton	Lab Number		Onita	· · · · · · · ·	Office	Dutorreputed		
CLP-M	9F24077	RSF0953-01	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F25007	RSF0953-01	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-02	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-03	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-04	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F25007	RSF0953-04	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-05	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-06	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-07	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F25007	RSF0953-07	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-08	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F25007	RSF0953-08	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9F24077	RSF0953-09	50.00	mL	50.00	mL	06/25/09 08:30	MLD	CLP Metals Prep (Water)
CLP-M	9G02013	RSF0953-01	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-01	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-02	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-03	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02013	RSF0953-04	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-04	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-05	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-06	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02013	RSF0953-07	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-07	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02013	RSF0953-08	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-08	30.00	mĹ	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)
CLP-M	9G02014	RSF0953-09	30.00	mL	50.00	mL	07/02/09 10:00	MM	CLP Metals Prep (Water)



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Connecticut 128 Long Hill Cross Road Shelton, CT 06484 SDG Number: 220-9422

20/743

Received: 06/24/09 Reported: 07/07/09 16:29

Project: NYSDEC Standby - Columbia Mills Project Number: 220-9422

Case Narrative

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Lef. any f 2

Sally Hoffman Project Manager

Tuesday, July 7, 2009

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.



ANALYTICAL REPORT

Job Number: 220-9422-1 SDG Number: 220-9422 Job Description: NYSDEC Standby - Columbia Mills

> For: Malcolm Pirnie, Inc. 855 Route 146 Suite 210 Clifton Park, NY 12065 Attention: Mr. Jeremy Wyckoff

hery ann Cascella

Approved for release. Cheryl Cascella 7/20/2009 4:05 PM

Designee for Johanna Dubauskas Project Manager I johanna.dubauskas@testamericainc.com 07/20/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458



Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

Method(s) 3510C: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume. The samples were brought to a final volume of 5mL for PCB extraction due to insufficientinitial volume: MW-3D (220-9422-9), MW-3S (220-9422-10). The reporting limits (RLs) are elevated proportionately.

No other analytical or quality issues were noted.

Client: MPI Date: July 20, 2009

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Lawrence Decker Laboratory Director

July 20, 2009

Date

FORMULAS FOR NYSDEC SAMPLE CALCULATIONS

Volatiles

 $\frac{(Ax)(IS)(DF)}{(AIS)(RRF)(V)(\% \text{ solids})} = C$

 $\frac{(AX)(IS)(VT)(1000)(DF)}{(AIS)(RRF)(VA)(V)(\% \text{ solids})} = C \quad \text{(for medium level soils)}$

SemiVolatiles

 $\frac{(AX)(IS)(VE)(DF)(GPC \text{ factor is 2 if needed})}{(AIS)(RRF)(\text{volume injected})(V)(\% \text{ solids})} = C$

Pesticides

 $\frac{(AX)(VE)(DF)}{(RRF)(V)(\% \text{ solids})(\text{volume injected})} = C$

PCBs for compound/retention time

 $\frac{(AX)(VE)(DF)}{(RRF of compound at the stated retention time)(V)(\% solids)(volume injected)} = C$

DRO/CTETPH

 $\frac{(AX)(VE)(DF)}{(RRF)(V)(\% \text{ solids})(\text{volume injected})} = C$

- AX = area of the target Ion
- **AIS** = Area of Internal standard
- C = concentration as ug/L or ug/Kg

DF = dilution

- **IS** = Internal standard concentration (ng)
- **RRF** = average RF (from initial cal except CLP methods from continuing cal)
- \mathbf{V} = sample volume for liquids in mls or sample weight for solids in grams
- **VA** = volume of aliquot for medium level soils
- **VE** = volume of concentrated extract

VT = volume of methanol for volatile medium level soils

SAMPLE SUMMARY

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-9422-1	4-S	Water	06/18/2009 0815	06/20/2009 1046
220-9422-2	MW-1S	Water	06/18/2009 1125	06/20/2009 1046
220-9422-3	MW-X	Water	06/18/2009 1130	06/20/2009 1046
220-9422-4	4D	Water	06/18/2009 1200	06/20/2009 1046
220-9422-5	MW-1D	Water	06/18/2009 1230	06/20/2009 1046
220-9422-6	STREAM	Water	06/18/2009 1245	06/20/2009 1046
220-9422-7	MW-2D	Water	06/18/2009 1420	06/20/2009 1046
220-9422-8	MW-2S	Water	06/19/2009 0655	06/20/2009 1046
220-9422-9	MW-3D	Water	06/19/2009 0730	06/20/2009 1046
220-9422-10	MW-3S	Water	06/19/2009 0735	06/20/2009 1046
220-9422-11	STRUCTURE-PPRS-SOU TH	Water	06/19/2009 0905	06/20/2009 1046
220-9422-12	STRUCTURE-PPRS-NOR TH	Water	06/19/2009 0925	06/20/2009 1046
220-9422-13	STRUCTURE-LEACHATE	Water	06/19/2009 0845	06/20/2009 1046
220-9422-14	POND	Water	06/19/2009 1450	06/20/2009 1046

EXECUTIVE SUMMARY - Detections

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Lab Sample ID	Client Sample ID	Reporting				
Analyte	-	Result / Qualifier	Limit	Units	Method	

No Detections

METHOD SUMMARY

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Description	Lab Location	Method	Preparation Method
Matrix Water			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography Liquid-Liquid Extraction (Separatory Funnel)	TAL CT TAL CT	SW846 8082	SW846 3510C
ILM05.3 Metals	TAL BUF	ILM05.3 ILM05	5.3
Lab References:			
TAL BUF = TestAmerica Buffalo			
TAL CT = TestAmerica Connecticut			

Method References:

ILM05.3 = U.S. Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Method	Analyst	Analyst ID
SW846 8082	Smith, Karli	KS

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	4-S	
Lab Sample ID:	220-9422-1	Date Sampled: 06/18/2009 0815
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2148 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initia Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: sult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptar	ice Limits
Tetrachloro-m-xyle	ne	83		22 - 145	
DCB Decachlorobi	phenyl	56		29 - 135	

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-1S	
Lab Sample ID:	220-9422-2	Date Sampled: 06/18/2009 1125
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2207 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Instr Initia Fina Injec Res	rument ID: al Weight/Volume: Il Weight/Volume: ction Volume: ult Type:	GC9 960 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.52	U	0.052	0.52
PCB-1221		0.52	U	0.052	0.52
PCB-1232		0.52	U	0.052	0.52
PCB-1242		0.52	U	0.052	0.52
PCB-1248		0.52	U	0.052	0.52
PCB-1254		0.52	U	0.085	0.52
PCB-1260		0.52	U	0.085	0.52
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	73		22 - 145	
DCB Decachlorobi	phenyl	45		29 - 135	

Analytical Data

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-X	
Lab Sample ID:	220-9422-3	Date Sampled: 06/18/2009 1130
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2226 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initi Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: sult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	75		22 - 145	
DCB Decachlorobi	phenyl	53		29 - 135	

Analytical Data

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	4D	
Lab Sample ID:	220-9422-4	Date Sampled: 06/18/2009 1200
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2245 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Ins Init Fin Inje Re	trument ID: ial Weight/Volume: al Weight/Volume: ection Volume: sult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ene	78		22 - 145	
DCB Decachlorobi	phenyl	46		29 - 135	

Analytical Data

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-1D	
Lab Sample ID:	220-9422-5	Date Sampled: 06/18/2009 1230
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2304 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Instr Initia Fina Injec Resi	ument ID: al Weight/Volume: I Weight/Volume: ction Volume: ult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ce Limits
Tetrachloro-m-xyle	ne	101		22 - 145	
DCB Decachlorobi	phenyl	82		29 - 135	

Analytical Data

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-2D	
Lab Sample ID:	220-9422-7	Date Sampled: 06/18/2009 1420
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2323 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initia Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: ult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	100		22 - 145	
DCB Decachlorobi	phenyl	67		29 - 135	

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-2S	
Lab Sample ID:	220-9422-8	Date Sampled: 06/19/2009 0655
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 06/30/2009 2342 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initia Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: ult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	98		22 - 145	
DCB Decachlorobi	phenyl	74		29 - 135	

Job Number: 220-9422-1 Sdg Number: 220-9422

Client: Malcolm Pirnie, Inc.

Client Sample ID:	MW-3D
Lab Sample ID:	220-9422-9
Client Matrix:	Water

Date Sampled: 06/19/2009 0730 Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0001 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initi Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: sult Type:	GC9 460 mL 5 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.54	U	0.054	0.54
PCB-1221		0.54	U	0.054	0.54
PCB-1232		0.54	U	0.054	0.54
PCB-1242		0.54	U	0.054	0.54
PCB-1248		0.54	U	0.054	0.54
PCB-1254		0.54	U	0.089	0.54
PCB-1260		0.54	U	0.089	0.54
Surrogate		%Rec	Qualifier	Acceptan	ce Limits
Tetrachloro-m-xyle	ne	100		22 - 145	
DCB Decachlorobi	phenyl	79		29 - 135	

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID:	MW-3S	
Lab Sample ID:	220-9422-10	Date Sampled: 06/19/2009 0735
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0020 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Instr Initia Fina Injec Res	rument ID: al Weight/Volume: Il Weight/Volume: ction Volume: ult Type:	GC9 500 mL 5 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	98		22 - 145	
DCB Decachlorobi	phenyl	75		29 - 135	

Client Sample ID: STRUCTURE-PPRS-SOUTH

Lab Sample ID:	220-9422-11	Date Sampled: 06/19/2009 0905
Client Matrix:	Water	Date Received: 06/20/2009 1046

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0039 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initia Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: ult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ce Limits
Tetrachloro-m-xyle	ne	101		22 - 145	
DCB Decachlorobi	phenyl	86		29 - 135	
Client Sample ID: STRUCTURE-PPRS-NORTH

Lab Sample ID:	220-9422-12	Date Sampled: 06/19/2009 0925
Client Matrix:	Water	Date Received: 06/20/2009 1046

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0058 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initi Fina Inje Res	rument ID: al Weight/Volume: al Weight/Volume: ction Volume: sult Type:	GC9 1000 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.50	U	0.050	0.50
PCB-1221		0.50	U	0.050	0.50
PCB-1232		0.50	U	0.050	0.50
PCB-1242		0.50	U	0.050	0.50
PCB-1248		0.50	U	0.050	0.50
PCB-1254		0.50	U	0.082	0.50
PCB-1260		0.50	U	0.082	0.50
Surrogate		%Rec	Qualifier	Acceptan	ce Limits
Tetrachloro-m-xyle	ne	98		22 - 145	
DCB Decachlorobi	phenyl	78		29 - 135	

Job Number: 220-9422-1 Sdg Number: 220-9422

Client Sample ID: STRUCTURE-LEACHATE

Lab Sample ID:	220-9422-13	Date Sampled: 06/19/2009 0845
Client Matrix:	Water	Date Received: 06/20/2009 1046

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0117 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Ins Init Fin Inje Res	trument ID: ial Weight/Volume: al Weight/Volume: ection Volume: sult Type:	GC9 950 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.53	U	0.053	0.53
PCB-1221		0.53	U	0.053	0.53
PCB-1232		0.53	U	0.053	0.53
PCB-1242		0.53	U	0.053	0.53
PCB-1248		0.53	U	0.053	0.53
PCB-1254		0.53	U	0.086	0.53
PCB-1260		0.53	U	0.086	0.53
Surrogate		%Rec	Qualifier	Acceptan	ce Limits
Tetrachloro-m-xyle	ne	94		22 - 145	
DCB Decachlorobi	phenyl	83		29 - 135	

Job Number: 220-9422-1 Sdg Number: 220-9422

Analytical Data

Client Sample ID:	POND	
Lab Sample ID:	220-9422-14	Date Sampled: 06/19/2009 1450
Client Matrix:	Water	Date Received: 06/20/2009 1046

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: Preparation: Dilution: Date Analyzed: Date Prepared:	8082 3510C 1.0 07/01/2009 0136 06/22/2009 2157	Analysis Batch: 220-28679 Prep Batch: 220-28361	Inst Initi Fin Inje Res	trument ID: ial Weight/Volume: al Weight/Volume: ection Volume: sult Type:	GC9 960 mL 10 mL 1.0 uL PRIMARY
Analyte		Result (ug/L)	Qualifier	MDL	RL
PCB-1016		0.52	U	0.052	0.52
PCB-1221		0.52	U	0.052	0.52
PCB-1232		0.52	U	0.052	0.52
PCB-1242		0.52	U	0.052	0.52
PCB-1248		0.52	U	0.052	0.52
PCB-1254		0.52	U	0.085	0.52
PCB-1260		0.52	U	0.085	0.52
Surrogate		%Rec	Qualifier	Acceptan	ice Limits
Tetrachloro-m-xyle	ne	104		22 - 145	
DCB Decachlorobi	phenyl	79		29 - 135	

Job Number: 220-9422-1 Sdg Number: 220-9422

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

		TCX2	DCB2
Lab Sample ID	Client Sample ID	%Rec	%Rec
220-9422-1	4-S	83	56
220-9422-2	MW-1S	73	45
220-9422-3	MW-X	75	53
220-9422-4	4D	78	46
220-9422-5	MW-1D	101	82
220-9422-7	MW-2D	100	67
220-9422-8	MW-2S	98	74
220-9422-9	MW-3D	100	79
220-9422-10	MW-3S	98	75
220-9422-11	STRUCTURE-PPRS- SOUTH	101	86
220-9422-12	STRUCTURE-PPRS- NORTH	98	78
220-9422-13	STRUCTURE-LEACH ATE	94	83
220-9422-14	POND	104	79
MB 220-28361/1-A		81	54
LCS 220-28361/3-A		75	42

Surrogate	
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TCX = Tetrachloro-m-xylene DCB = DCB Decachlorobiphenyl Acceptance Limits 22-145

29-135

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Method Blank - Batch: 220-28361

Lab Sample ID:MB 220-28361/1-AClient Matrix:WaterDilution:1.0Date Analyzed:06/30/20092110Date Prepared:06/22/20092157

Quality Control Results

Job Number: 220-9422-1 Sdg Number: 220-9422

Method: 8082 Preparation: 3510C

Method: 8082 Preparation: 3510C

Instrument ID: HP 6890 dual ECD Lab File ID: D90431204.D Initial Weight/Volume: 1000 mL Final Weight/Volume: 10 mL Injection Volume: 1.0 uL Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	0.50	U	0.050	0.50
PCB-1221	0.50	U	0.050	0.50
PCB-1232	0.50	U	0.050	0.50
PCB-1242	0.50	U	0.050	0.50
PCB-1248	0.50	U	0.050	0.50
PCB-1254	0.50	U	0.082	0.50
PCB-1260	0.50	U	0.082	0.50
Surrogate	% Rec		Acceptance Limits	
Tetrachloro-m-xylene	81		22 - 145	
DCB Decachlorobiphenyl	54		29 - 135	

Analysis Batch: 220-28679

Prep Batch: 220-28361

Units: ug/L

Lab Control Sample - Batch: 220-28361

Lab Sample ID: LCS 220-28361/3-A	Analysis Batch	: 220-28679	Instr	Instrument ID: HP 6890 dual ECD			
Client Matrix: Water	Prep Batch: 2	Prep Batch: 220-28361		Lab File ID: D90431205.D			
Dilution: 1.0	Units:ug/L	Units:ug/L		Initial Weight/Volume: 1000 mL			
Date Analyzed: 06/30/2009 2129			Fina	Weight/Volume: 1	0 mL		
Date Prepared: 06/22/2009 2157			Injec	Injection Volume: 1.0 uL			
			Colu	mn ID: PRIM	IARY		
Analyte	Spike Amount	Result	% Rec.	Limit	Qual		
PCB-1016	5.00	3.85	77	47 - 120			
PCB-1260	5.00	3.53	71	38 - 120			
Surrogate	%	Rec	A	cceptance Limits			
Tetrachloro-m-xylene	7	5		22 - 145			
DCB Decachlorobiphenyl	4	2		29 - 135			

DATA REPORTING QUALIFIERS

Client: Malcolm Pirnie, Inc.

Job Number: 220-9422-1 Sdg Number: 220-9422

Lab Section	Qualifier	Description
GC Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an estimated value.
	*	Surrogate exceeds the control limit

Job Number: 220-9422-1 Sdg Number: 220-9422

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 220-2836	1				
LCS 220-28361/3-A	Lab Control Sample	Т	Water	3510C	
MB 220-28361/1-A	Method Blank	Т	Water	3510C	
220-9422-1	4-S	Т	Water	3510C	
220-9422-2	MW-1S	Т	Water	3510C	
220-9422-3	MW-X	Т	Water	3510C	
220-9422-4	4D	Т	Water	3510C	
220-9422-5	MW-1D	Т	Water	3510C	
220-9422-7	MW-2D	Т	Water	3510C	
220-9422-8	MW-2S	Т	Water	3510C	
220-9422-9	MW-3D	Т	Water	3510C	
220-9422-10	MW-3S	Т	Water	3510C	
220-9422-11	STRUCTURE-PPRS-SOUTH	Т	Water	3510C	
220-9422-12	STRUCTURE-PPRS-NORTH	Т	Water	3510C	
220-9422-13	STRUCTURE-LEACHATE	Т	Water	3510C	
220-9422-14	POND	Т	Water	3510C	
Analysis Batch:220-2	8679				
LCS 220-28361/3-A	Lab Control Sample	Т	Water	8082	220-28361
MB 220-28361/1-A	Method Blank	Т	Water	8082	220-28361
220-9422-1	4-S	Т	Water	8082	220-28361
220-9422-2	MW-1S	Т	Water	8082	220-28361
220-9422-3	MW-X	Т	Water	8082	220-28361
220-9422-4	4D	Т	Water	8082	220-28361
220-9422-5	MW-1D	Т	Water	8082	220-28361
220-9422-7	MW-2D	Т	Water	8082	220-28361
220-9422-8	MW-2S	Т	Water	8082	220-28361
220-9422-9	MW-3D	Т	Water	8082	220-28361
220-9422-10	MW-3S	Т	Water	8082	220-28361
220-9422-11	STRUCTURE-PPRS-SOUTH	Т	Water	8082	220-28361
220-9422-12	STRUCTURE-PPRS-NORTH	Т	Water	8082	220-28361
220-9422-13	STRUCTURE-LEACHATE	Т	Water	8082	220-28361
220-9422-14	POND	Т	Water	8082	220-28361

Report Basis

T = Total

Laboratory Chronicle

Lab ID:	220-9422-1	Client I	D: 4-S					
		Sample	Date/Time:	06/18/2009 08:1	15 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-B-1-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-B-1-A		220-28679	220-28361	06/30/2009 21:48	1	TAL CT	KS
Lab ID:	220-9422-2	Client I	D: MW-1S					
		Sample	Date/Time:	06/18/2009 11:2	25 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-A-2-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-A-2-A		220-28679	220-28361	06/30/2009 22:07	1	TAL CT	KS
Lab ID:	220-9422-3	Client I	D: MW-X					
		Sample	Date/Time:	06/18/2009 11:3	Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-A-3-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-A-3-A		220-28679	220-28361	06/30/2009 22:26	1	TAL CT	KS
Lab ID:	220-9422-4	Client I	D: 4D					
		Sample	Date/Time:	06/18/2009 12:0	00 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-B-4-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-B-4-A		220-28679	220-28361	06/30/2009 22:45	1	TAL CT	KS
Lab ID:	220-9422-5	Client I	D: MW-1D					
		Sample	Date/Time:	06/18/2009 12:3	80 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-B-5-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-B-5-A		220-28679	220-28361	06/30/2009 23:04	1	TAL CT	KS
Lab ID:	220-9422-7	Client I	D: MW-2D					
		Sample	Date/Time:	06/18/2009 14:2	20 Received Date	/Time:	06/20/2009	10:46
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analvst
P:3510C	220-9422-A-7-A	-	220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-A-7-A		220-28679	220-28361	06/30/2009 23:23	1	TAL CT	KS

07/20/2009

Laboratory Chronicle

	220-9422-8	Client	D: IVIVV-25					
		Sample	Date/Time:	06/19/2009 06:5	55 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-B-8-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-B-8-A		220-28679	220-28361	06/30/2009 23:42	1	TAL CT	KS
Lab ID:	220-9422-9	Client I	D: MW-3D					
		Sample	Date/Time:	06/19/2009 07:3	80 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-A-9-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082	220-9422-A-9-A		220-28679	220-28361	07/01/2009 00:01	1	TAL CT	KS
Lab ID:	220-9422-10	Client I	D: MW-3S					
		Sample	Date/Time:	06/19/2009 07:3	35 Received Date	/Time:	06/20/2009	10:46
			Analysis		Date Prepared /			
Method	Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C	220-9422-A-10-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
			000 00070	000 00004	07/01/2000 00:20	1	TAL CT	KS
A:8082	220-9422-A-10-A		220-28679	220-2836 I	07/01/2009 00.20	1	TAL OI	1.0
A:8082	220-9422-A-10-A	Client I	D: STRUCI	URE-PPRS-SO	JTH	1		110
A:8082	220-9422-A-10-A	Client I Sample	Date/Time:	URE-PPRS-SOI 06/19/2009 09:0	JTH 05 Received Date	/Time:	06/20/2009	10:46
<u>A:8082</u> Lab ID:	220-9422-A-10-A	Client I Sample	D: STRUCT Date/Time: Analysis	URE-PPRS-SOU 06/19/2009 09:0	JTH D5 Received Date Date Prepared /	/Time:	06/20/2009	10:46
A:8082 Lab ID: Method	220-9422-A-10-A 220-9422-11 Bottle ID	Client I Sample Run	D: STRUCI Date/Time: Analysis Batch	220-28361 CURE-PPRS-SOU 06/19/2009 09:0 Prep Batch	JTH D5 Received Date Date Prepared / Analyzed	/Time: Dil	06/20/2009 Lab	10:46 Analyst
A:8082 Lab ID: <u>Method</u> P:3510C	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A	Client I Sample Run	D: STRUCI Date/Time: Analysis Batch 220-28679	URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361	JTH D5 Received Date Date Prepared / Analyzed 06/22/2009 21:57	/Time: Dil	06/20/2009 Lab	10:46 Analyst
A:8082 Lab ID: Method P:3510C A:8082	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A	Client I Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679	220-28361 'URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361	JTH D5 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39	/Time: 	06/20/2009 Lab TAL CT TAL CT	10:46 Analyst EL KS
A:8082 Lab ID: <u>Method</u> P:3510C A:8082 Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-B-11-A	Client II Sample Run Client II	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 D: STRUCT	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 220-28361 220-28361	JTH D5 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH	/Time: 	06/20/2009 Lab TAL CT TAL CT	10:46 Analyst EL KS
A:8082 Lab ID: <u>Method</u> P:3510C A:8082 Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-B-11-A	Client II Sample Run Client II Sample	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 D: STRUCT Date/Time:	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2	Officin/2009 Oc.20 JTH 05 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 00:39 RTH 25 Received Date	/Time: /Time: 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009	10:46 Analyst EL KS 10:46
A:8082 Lab ID: P:3510C A:8082 Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-B-11-A	Client II Sample Run Client II Sample	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 D: STRUCT Date/Time: Analysis	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2	JTH D5 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared /	/Time: /Time: 1 1 /Time:	06/20/2009 Lab TAL CT TAL CT 06/20/2009	10:46 Analyst EL KS 10:46
A:8082 Lab ID: P:3510C A:8082 Lab ID: Method	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-12 Bottle ID	Client II Sample Run Client II Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch	220-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Off Off 06/19/2009 09:2 Prep Batch	JTH D5 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared / Analyzed	/Time: Dil 1 1 /Time: Dil	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab	10:46 Analyst EL KS 10:46 Analyst
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C	220-9422-A-10-A 220-9422-11 220-9422-B-11-A 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679	220-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 06/19/2009 09:2 Prep Batch 220-28361	Officit/2009 Oc.20 JTH 05 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 00:39 RTH 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57	/Time: /Time: /Time: Dil 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT	10:46 Analyst EL KS 10:46 Analyst EL
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 220-28679 220-28679	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 06/19/2009 09:2 Prep Batch 220-28361 220-28361	Date Prepared / Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39	/Time: /Time: /Time: Dil 1 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT TAL CT TAL CT	10:46 Analyst EL KS 10:46 Analyst EL KS
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082 Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 06/19/2009 09:2 Prep Batch 220-28361 220-28361 220-28361 220-28361 220-28361 220-28361 220-28361	Diff Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:58 E	/Time: /Time: 1 1 /Time: Dil 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT TAL CT	10:46 Analyst EL KS 10:46 Analyst EL KS
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082 Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run Client II Sample	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time:	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 06/19/2009 09:2 Prep Batch 220-28361 220-28361 220-28361 220-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361 20-28361	Diff Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:58 E 45 Received Date	/Time: /Time: /Time: Dil 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT TAL CT TAL CT	10:46 Analyst EL KS 10:46 EL KS 10:46
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: P:3510C A:8082 Lab ID: Lab ID:	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run Client II Sample	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis	220-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 06/19/2009 09:2 Prep Batch 220-28361 220-28361 220-28361 220-28361 220-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361	Date Prepared / Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:58 E 45 Received Date Date Prepared /	/Time: /Time: /Time: Dil 1 1 1 /Time:	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT TAL CT TAL CT 06/20/2009	10:46 Analyst EL KS 10:46 Analyst EL KS 10:46
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A	Client II Sample Run Client II Sample Run Client II Sample Run	D: STRUCI Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCI Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCI Date/Time: Analysis Batch	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 020-28361 220-28361 220-28361 220-28361 220-28361 220-28361 20-28361 20-28361 20-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361 200-28361 Prep Batch 06/19/2009 08:4 Prep Batch	Diff Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 25 Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:58 E 15 15 Received Date Date Prepared / Analyzed	/Time: <u>Dil</u> 1 1 /Time: <u>Dil</u> J	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab 06/20/2009 Lab	10:46 Analyst EL KS 10:46 Analyst 10:46 Analyst
A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082 Lab ID: Method P:3510C A:8082	220-9422-A-10-A 220-9422-11 Bottle ID 220-9422-B-11-A 220-9422-B-11-A 220-9422-B-11-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-12-A 220-9422-A-13-A	Client II Sample Run Client II Sample Run Client II Sample Run	D: STRUCT Date/Time: Analysis Batch 220-28679 220-28679 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679 D: STRUCT Date/Time: Analysis Batch 220-28679	Z20-28361 URE-PPRS-SOU 06/19/2009 09:0 Prep Batch 220-28361 220-28361 220-28361 06/19/2009 09:2 Prep Batch 020-28361 220-28361 220-28361 220-28361 220-28361 20-28361 20-28361 20-28361 20-28361 220-28361	Diff Received Date Date Prepared / Analyzed 06/22/2009 21:57 07/01/2009 00:39 RTH 25 Received Date Date Prepared / Analyzed 06/22/2009 06/22/2009 21:57 07/01/2009 00:58 E 15 Received Date Date Prepared / Analyzed 00:58 E 15 Received Date Date Prepared / Malyzed 06/22/2009 06/22/2009 21:57	/Time: <u>Dil</u> 1 1 /Time: <u>Dil</u> 1 1 1 1 1 1 1 1 1 1 1 1 1	06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab TAL CT TAL CT 06/20/2009 Lab	10:46 Analyst EL KS 10:46 Analyst EL KS 10:46 Analyst EL

Job Number: 220-9422-1 SDG: 220-9422

Laboratory Chronicle

Lab ID:	220-94	22-14	Client I	D: POND					
			Sample	Date/Time:	06/19/2009 14:5	50 Received Date	/Time:	06/20/2009	10:46
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C		220-9422-A-14-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082		220-9422-A-14-A		220-28679	220-28361	07/01/2009 01:36	1	TAL CT	KS
Lab ID:	MB		Client I	D: N/A					
			Sample	Date/Time:	N/A	Received Date	/Time:	N/A	
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C		MB 220-28361/1-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082		MB 220-28361/1-A		220-28679	220-28361	06/30/2009 21:10	1	TAL CT	KS
Lab ID:	LCS		Client I	D: N/A					
			Sample	Date/Time:	N/A	Received Date	/Time:	N/A	
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:3510C		LCS 220-28361/3-A		220-28679	220-28361	06/22/2009 21:57	1	TAL CT	EL
A:8082		LCS 220-28361/3-A		220-28679	220-28361	06/30/2009 21:29	1	TAL CT	KS

Lab References:

TAL CT = TestAmerica Connecticut

New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix D

Monitoring Well Inspection Forms



0266363 / ALB



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID, Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing Integrity of Cap Seal Surface Water in Casing?	Describe: <u>6k</u> Describe: <u>0k</u> Yes 🕅	No[] Describe: egrand suchas
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [X] Threaded [] Groove [] Yes []	Steel [] Stainless Steel [] Slip 🏲] Expansion Plug [] Indelible Mark 🔁 None [] No 🏷] Describe:

Downhole

Downhole		No.	Describe:			_
Odor	Yes		20000			
PID Reading	ppm	Depth to		leet (nearest 0.01) N	I/A [j
Depth to Water (to top of casing)	4X feet (nearest 0.01)	Deptilito L				
Total Well Depth (to top of casing)	16,70 feet (nearest 0.1)					
Sediment (Hard/Soft Bottom)	Describe:					

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/mlog	INSPECTOR:	JRW, JR (MPI)
· • • • • • • • • • • • • • • • • • • •		

inches	N/A []			
3.5_feet	N/A []			
Describe: _OK				
Steel 🔀	Stainless	Steel []	Other	
inches				
Yes[]	No 🗲]		Not apparent [2]	Other
Cement []	Bentonité	[]	Not apparent 🗗 I	01107
Describe:				······································
Away from Wellhead 🔀]	Toward W	/ellhead []		
Yes[]	No 🗲]	Describe:		
Yes 🔀]	No[]	Describe:		
Yes 🎮]	No[]	Describe:	·	
Yes[]	No 🎦	Describe:		

	~		 •••	۰.



Outward Appearance

Inner Appearance

Integrity of Well Casing				
Integrity of Cap Seal Surface Water in Casing?	Yes []	No 🔊 Describe:		
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	PVC [>] Threaded [] Groove [] Yes []	Steet [_] Slip [✔] Indelible Mark [✔] No [★] Describe:	Stainless Steel [] Expansion Plug [] None []	None []

Downhole Odor	Yes []	No [🏲]	Describe:			
PID Reading Depth to Water (to top of casing)	•.• ppm /.80 feet (nearest 0.01)	Depth to L	NAPL	. <u> </u>	feet (nearest 0.01)	N/A [_]
Total Well Depth (to top of casing) Sediment (Hard/Soft Bottom)	28.00 feet (nearest 0.1) Describe:					

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)

inches	N/A [] N/A []	
Describe: <u>•k</u> Steel K]	Stainless Steel []	Other
Yes [] Cement []	No 🏞] Bentonite [_]	Not apparent K] Other
Describe: Away from Wellhead X] Yes [] Yes [X] Yes []	Toward Wellhead [] No [>] Describe: No [] Describe: No [] Describe: No [] Describe:	

ising Material		1			
=	6		1		



Outward Appearance

Flushmount Diameter Approximate Stickup Height Integrity of Protective Casing Protective Casing Material Protective Casing Width or Dia. Weep Hole in Protective Casing Surface Seal/Apron Material Integrity of Surface Seal/Apron Surface Drainage **Bollards Present?** Well ID. Visible? Lock Present and Functional? Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing Integrity of Cap Seal Surface Water in Casing? Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?

Downhole

Downhole		No [X]	Describe:		
Odor	Yes				
PID Reading	ppm	Denth to I	NAPL	feet (nearest 0.01)	N/A []
Depth to Water (to top of casing)	1.60 leet (nearest 0.01)	Deptilite			
Total Well Depth (to top of casing)	17.43 feet (nearest 0.1)				
Sediment (Hard/Soft Bottom)	Describe:				

Steel []

Indelible Mark [1/2]

Describe:

Slip 1

NOM

2____ inches

Threaded []

Groove []

Yes[]

PVC M

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/2009	INSPECTOR:	JRW, JR (MPI)
25		
A2		

NA inches 3 feet	N/A [] N/A []			
Steel [Stainless S	teel []	Other	
Yes [] Cement []	No [V] Bentonite []	Not apparent [V	Other
Describe: Away from Wellhead [/] Yes [] Yes [/] Yes []	Toward We No [] No [] No []	ellhead [] Describe: Describe: Describe: Describe:		
Describe: <u>good</u> Describe: <u>good</u> Yes [V]	No[]	Describe:		

Stainless Steel []

Expansion Plug [7]

None []

None []



Columbia Mills

6/17/2009

 \mathcal{D}

inches

900 d

feet

6_ inches

Away from Wellhead [2

Describe:

Steel [V

Yes []

Yes[]

Yes 1

Yes [

Yes[]

Cement [] Describe:

Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Reference/Measuring Point

Evidence of Double Casing?

NO Describe: Yes [] good Describe: Integrity of Well Casing Describe: Integrity of Cap Seal No[] Describe: Yes [Surface Water in Casing? <u>2</u> inches Well Casing Diameter PVC [1 Steel [] Stainless Steel [] Well Casing Material Expansion Plug [] None [] Slip [~] Threaded [] Inner Cap Indelible Mark [4 None [] Groove []

Downhole

Odor	Yes[]	No 🔀]	Describe:	 <u></u>		
PID Reading	0 ppm					
Depth to Water (to top of casing)	11:77 feet (nearest 0.01)	Depth to L	NAPL	 feet (nearest 0.01)	N/A []
Total Well Depth (to top of casing)	27.27 feet (nearest 0.1)					
Sediment (Hard/Soft Bottom)	Describe:			 		

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

INSPECTOR:

N/A []

N/A []

No IV

NO

No[]

No[]

No /

Bentonite []

Stainless Steel []

Toward Wellhead []

Describe:

Describe:

Describe:

Describe:

PROJECT NUMBER: 0266363

JRW, JR (MPI)

Other _____

Not apparent [1] Other _____



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing	Describe: <u>OK</u>		· · · · · · · · · · · · · · · · · · ·	
Integrity of Cap Seal Surface Water in Casing?	Yes []	No 났] Describe:		
Well Casing Diameter Well Casing Material Inner Cap	inches PVC [X] Threaded []	Steel [_] Slip [≮] Indelible Mark 🎘]	Stainless Steel() Expansion Plug() None()	None []
Reference/Measuring Point Evidence of Double Casing?	Groove [] Yes []	No [x] Describe:		<u> </u>

Downhole

Odor	Yes []	No[]	Describe:	
PID Reading Depth to Water (to top of casing) Total Well Depth (to top of casing)	<u><i>o</i>.0</u> ppm <u>5.76</u> feet (nearest 0.01) <u>J7.70</u> feet (nearest 0.1)	Depth to L	NAPL	feet (nearest 0.01) N/A []
Sediment (Hard/Soft Bottom)	Describe:			
Additional Comments:				

GROUNDWATER MONITORING WELL INSPECTION

N/A []

N/A []

No 🔀

No 🔀]

No[]

No[]

No 🔀

Bentonite []

Stainless Steel []

Toward Wellhead []

Describe:

Describe: _

Describe:

Describe: ___

inches

Away from Wellhead 🔀]

2.5_feet Describe: _OK

Steel [*] _6__ inches

Yes[]

Yes[]

Yes 🎮]

Yes 🎮]

Yes[]

Cement [] Describe: __

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
mw-3s		

Other _____

Not apparent [>] Other _____



Outward Appearance

GROUNDWATER MONITORING WELL INSPECTION

.

	Columbia Mills	PROJECT NUMBER:	0266363	
	6/17/09	INSPECTOR:	JRW, <u>JR (MPI)</u>	
DATE OF INSPECTION.	<u> </u>			
WELL DESIGNATION:	3-1			
WELL LOCATION:				
Outward Appearance				
Flushmount Diameter	inches	N/A		
Approximate Stickup Height	feet	N/A[]		
Integrity of Protective Casing	Describe: _		Other	
Protective Casing Material	Steel [*]	Stainless Steel []		
Protective Casing Width or Dia.	<u>6</u> inches			
Weep Hole in Protective Casing	Yes []	No 🏌 🛛	Net apparent S 1 Other	
Surface Seal/Apron Material	Cement []	Bentonite []		
Integrity of Surface Seal/Apron	Describe:			
Surface Drainage	Away from Wellhead 🏲]	Toward Wellhead []		
Bollards Present?	Yes []	No♥] Describe:	······································	
Well ID. Visible?	Yes 🏲]	No [] Describe:		
Lock Present and Functional?	Yes 🔀]	No [] Describe:		
Photograph Taken? Photo #	Yes[]	Notri] Describe:		
Inner Appearance	ok			
Integrity of Well Casing	Describe:			
Integrity of Cap Seal	Describe:		· .	
Surface Water in Casing?	Yes [X]	No [] Describe:		
Well Casing Diameter	inches		Chainlose Stool []	
Well Casing Material	PVC [7]	Steel []	Stamless Steer []	
Inner Cap	Threaded []	Slip []		
Reference/Measuring Point	Groove []	IndelibleMark 🔀]	None	
Evidence of Double Casing?	Yes []	No 🏹] Describe:		
Downhole				
Odor	Yes[]	No 🏹] 🛛 Describe		
	LTO ppm			
Depth to Water (to top of casing)	22.03 feet (nearest 0.01)	Depth to LNAPL	feet (nearest 0.01) N/A []	
Tetra Mall Donth (to top of casing)	26.60 feet (nearest 0.1)			
Continent (Hard/Soft Bottom)	Describe:			
Sedune III (natu/our Docorr)				

Additional Comments:

Sediment (Hard/Soft Bottom)

Prass in well when remark cap/expression plug.



Outward Appearance

Inner Appearance

Integrity of Well Casing	Describe:			
Integrity of Cap Seal Surface Water in Casing?	Describe: Yes [X]	No [] Describe:		
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [≫] Threaded [] Groove [] Yes []	Steel [] Slip ,[≫] Indelible Mark [×] No [×] Describe:	Stainless Steel [] Expansion Plug [] None []	None []

Downhole

No (V1 Deceribe)		
Odor Yes [] No [A] Describe:		
PID Reading <u>3.9</u> ppm	/Δ [1
Depth to Water (to top of casing) <u>II.70</u> feet (nearest 0.01) Depth to LNAPL leet (nearest 0.01) 14/		j
Total Well Depth (to top of casing) /4.01 feet (nearest 0.1)		
Sediment (Hard/Soft Bottom) Describe:		_

٩

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
45		

inches	N/A []			
2.0 feet	N/A []			
Describe: 6K				
Steel [X]	Stainless S	Steel []	Other	
6 inches				
Yes []	No 🕵]			
Cement []	Bentonite (]	Not apparent 🔀]	Other
Describe:				
Away from Wellhead [8]	Toward W	ellhead []		
Yes []	No 🏲]	Describe:	· · · · · · · ·	
Yes 🔭]	No[]	Describe:		
Yes 🔀]	No []	Describe:		
Yes []	No 🛃	Describe:		
Describe: _OK				
Describe: <u>ok</u>				
Yes [X]	No []	Describe:		······································
2 inches				
PVC [X]	Steel []		Stainless Steel	
Threaded []	Slip 🎦]		Expansion Plug [j None []
Groove []	Indelible M	1ark 🏹]	None []	



Outward Appearance

Inner Appearance

UN:	
:	

INSPECTOR:

Columbia Mills

6/17/09

4D

inches	N/A []			
2.5 feet	N/A []			
Describe: OK				
Steel 🛃	Stainless S	Steel []	Other	
inches Yes [] Cement []	No ¥ _] Bentonite ∣	[]	Not apparent 🛃	Other
Away from Wellhead >	Toward W	ellhead []		
Yes []	No 🏞]	Describe:		
Yes 🖌]	No []	Describe:		
Yes 🏌]	No[]	Describe:		
Yes []	No [🎢]	Describe:		

Integrity of Well Casing	Describe: OK			
Integrity of Cap Seal Surface Water in Casing?	Ves []	No [X] Describe:		
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	PVC [X] Threaded [] Groove [] Yes []	Steel [] Slip ≻] indelible Mark [★] No ⋋] Describe:	Stainless Steel [] Expansion Plug [] None []	None []

Downhole

DOMINIOLE		No [7]	Describe [.]		
Odor	Yes []		Describe.		
PID Reading	<u>2.4</u> ppm			feet (nearest 0.01)	N/A[]
Depth to Water (to top of casing)	[1.)3 feet (nearest 0.01)	Depth to L			
Total Well Depth (to top of casing)	26.75 feet (nearest 0.1)				
Sediment (Hard/Soft Bottom)	Describe:				

Additional Comments:

Used Bre Spray - Bres in Stickup,

GROUNDWATER MONITORING WELL INSPECTION

PROJECT NUMBER: 0266363

JRW, JR (MPI)



Outward Appearance

Flushmount Diameter Approximate Stickup Height Integrity of Protective Casing Protective Casing Material Protective Casing Width or Dia. Weep Hole in Protective Casing Surface Seal/Apron Material Integrity of Surface Seal/Apron Surface Drainage **Bollards Present?** Well ID. Visible? Lock Present and Functional? Photograph Taken? Photo #

Inner Appearance

Inner Appearance	Describe: <u>0k</u>			
Integrity of Cap Seal Surface Water in Casing?	Describe: <u>Gene</u> Yes []	No [] Describe:	M	
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [⊀] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible Mark [X] No [X] Describe:	Stainless Steel [] Expansion Plug [×] None []	None []

Downhole		No 🖍	Describe:				_
Odor	Yes[]						
PID Reading	<u>45</u> ppin	Depth to L	NAPL	feet (neare	st 0.01)	N/A []
Depth to Water (to top of casing)	[8.36 feet (nearest 0.01)	Copur					
Total Well Depth (to top of casing)	feet (nearest 0.1)						_
Sodiment (Hard/Soft Bottom)	Describe:						

Sediment (Hard/Soft Bottom)

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
LIF P-01		

inches feet	N/A [] N/A []	
Steel []	Stainless Steel []	Other
Yes [] Cement []	No[] Bentonite[]	Not apparent 🔀 Other
Away from Wellhead ¥ } Yes [] Yes [] Yes [] Yes []	Toward Wellhead []No [✗]Describe:No [✗]Describe:No [✗]Describe:No [✗]Describe:	NO LOCK

.

 inches	N/A []



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing
Integrity of Cap Seal
Surface Water in Casing?
Well Casing Diameter
Well Casing Material
Inner Cap
Beference/Measuring Point
Evidence of Double Casing?

Downhole

Downhole	N/ 1 1	No 🔀 1	Describe:		
Odor	Yes	140 8 1			
PID Reading		Depth to L	NAPI	feet (nearest 0.01)	N/A [
Depth to Water (to top of casing)	feet (nearest 0.01)	Depintore			
Total Well Depth (to top of casing)	feet (nearest 0.1)				
Sediment (Hard/Soft Bottom)	Describe:				

Additional Comments:

DAMAGED, CANNOT MEASURE. Pizo Casing was tilted

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
LFP-07		

inches	N/A [] N/A []	
Steel []	Stainless Steel []	Other
inches Yes [] Cement []	No [] Bentonite []	Not apparent [] Other
Describe:Away from Wellhead [] Yes [] Yes [] Yes [] Yes []	Toward Wellhead []No []Describe:No []Describe:No []Describe:No []Describe:	

Describe: Dame	ged .				
Yes []	•	No[]	Describe:	<u>````</u>	
PVC [>+] Threaded [] Groove [] Yes []	. •	Steel [] Slip [] Indelible M No [~]	/ark 🔭] Describe:	Stainless Steel [] Expansion Plug (3) None []	None []

j

om)	Describe.	



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner A

GROUNDWATER	MONITORING	WELL	INSPECTION

LF9-03		
cline	INSPECTOR:	JRW, JR (MPI)
Columbia Mills	PROJECT NUMBER:	0266363

Non feet	N/A [] N/A []			
Describe: Steel []	Stainless \$	Steel []	Other	
Yes [] Cement []	No [] Bentonite	[]	Not apparent []	Other
Away from Wellhead [] Yes [] Yes [] Yes [] Yes []	Toward W No [≯] No [≯] No [♥] No [♥]	/ellhead [] Describe: Describe: Describe: Describe:		

Inner Appearance Integrity of Well Casing	Describe: <u>OK</u>	tiltad	. <u> </u>		
Integrity of Cap Seal Surface Water in Casing?	Describe: <u>OK</u>	No[]	Describe:	NA	
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [X] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible M No [本]	ark 😭] Describe:	Stainless Steel [] Expansion Plug 2] None []	None []
Downhole Odor	Yes []	No [🖌]	Describe:		

Odor	res[]			
PID Reading	<u>0.0</u> ppm	Depth to LNAPI	feet (nearest 0.01)	N/A []
Depth to Water (to top of casing)	feet (nearest 0.01)	Depinio Linni L		
Total Well Depth (to top of casing)	teet (nearest 0.1)			_
Sediment (Hard/Soft Bottom)	Describe:			

Additional Comments:



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID, Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Annearance

Inner Appearance Integrity of Well Casing Integrity of Cap Seal	Describe:	No[] Describe:	٨
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	∠ inches PVC [✗]	Steel [] Slip [] Indelible Mark [X] No [] Describe:	Stainless Steel [] Expansion Plug [X] None [] None []

Downhole

Downhole	N . I 1	No[]	Describe:		
Odor	Yes[]	1101			
PID Reading	ppm	Depth to L	NAPL	feet (nearest 0.01) N/A [j
Depth to Water (to top of casing)	(S.29 feet (nearest 0.01)	Depinio e			
Total Well Depth (to top of casing)	feet (nearest 0.1)				_
Sediment (Hard/Soft Bottom)	Describe:				

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
LFP-64		

hter inches	N/A []		
feet	N/A []		
Describe:	Stainless	Steel []	Other
Yes [] Cement []	No [] Bentonite	[]	Not apparent [] Other
Away from Wellhead [*] Yes [] Yes [] Yes [] Yes []	Toward W No [*] No [*] No [*] No [*]	Vellhead [] Describe: Describe: Describe: Describe:	pro Loch

	-	٠	-

``

MALCOLM PIRNIE

SITE/PROJECT NAME: DATE OF INSPECTION: WELL DESIGNATION: WELL LOCATION:

Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing	Describe:
Integrity of Cap Seal	Describe:
Surface Water in Casing?	Yes[]
Well Casing Diameter	Z inc
Well Casing Material	PVC 🏞]
Inner Cap	Threaded
Reference/Measuring Point	Groove [
Evidence of Double Casing?	Yes []

Downhole

Downhole			Describer		
Odor	Yes []	NO 🔁	Describe.		-
PID Reading	0,0 ppm			foot (pogrest 0.01) N/A []	
Depth to Water (to top of casing)	[<u>2.26</u> feet (nearest 0.01)	Depth to LI	NAPL		
Total Well Depth (to top of casing)	feet (nearest 0.1)				
Sediment (Hard/Soft Bottom)	Describe:				-

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
c/n/09	INSPECTOR:	JRW, JR (MPI)
LF9-05		

inches	N/A []		
feet	N/A []		
Describe:			
Steel []	Stainless	Steel []	Other
inches			
Yes []	No[]		
Cement []	Bentonite	[]	Not apparent [] Other
Describe:			
Away from Wellhead 🔀]	Toward ₩	/ellhead []	
Yes []	No 🔀]	Describe:	
Yes []	No 🔀]	Describe:	
Yes 🔀]	No[]	Describe:	
Yes []	No 🏲]	Describe:	

Describe OK			
Yes []	No[] Describe:	<u>N</u> A	
	Steel []	Stainless Steel []	
Threaded []	Slip []	Expansion Plug [X]	None [
Groove []	Indelible Mark 🔀]	None []	
Yes []	No K] Describe:		



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363 JRW, JR (MPI)
LF9-6		
inches feet	N/A [] N/A []	
Steel []	Stainless Steel []	Other

Yes []	No [] Bentonite [1	Not apparent []	Other
Cement	Denterno [
Describe:	Toward W	ellhead []		
Voc []	No 🖍]	Describe:	<u> </u>	
	No 🔭	Describe:		<u> </u>
Yes[]	No[]	Describe:		
Yes 🍋		Describe		
Yes[]	No 🔁	Describe.		

j

Inner Appearance Integrity of Well Casing Integrity of Cap Seal	Describe: <u>tilt</u>	 No[]	Describe:	Av#	
Surface Water in Casing? Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	<u>2</u> inches PVC [≯] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible N No 🏞]	Mark [▶] Describe:	Stainless Steel [] Expansion Plug 🏞] None []	None []
Downhole Odor	Yes []	No (>	Describe:		

Cuoi				
PID Reading	12.11 ppm	Depth to LNAPL	feet (nearest 0.01)	N/A [
Depth to Water (to top of casing)				
Total Well Depth (to top of casing)				
Sediment (Hard/Soft Bottom)	Describe:			

Additional Comments:

MALCOLM PIRNIE

GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME:	Columbia Mills	PROJECT NUMBER:	0266363
DATE OF INSPECTION:	6/17/09	INSPECTOR:	JRW, JR (MPI)
WELL DESIGNATION:	LFP-7		
WELL LOCATION:			
Outward Appearance	inches	N/A []	
Flushmount Diameter	feet	N/A []	
Approximate Stickup Height	Describe:		
Integrity of Protective Casing	Steel []	Stainless Steel []	Other
Protective Casing Width or Dia	inches		
Protective Casing Width of Dia.	Yes	No []	
Weep Hole III Flotective Obsing	Cement []	Bentonite []	Not apparent [] Other
Integrity of Surface Seal/Apron	Describe:		
Surface Drainage	Away from Wellhead	Toward Wellhead []	
Bollordo Present?	Yes	No 🔀 Describe:	
	Yes	No [x] Describe:	
Lock Present and Functional?	Yes [']	No [X] Describe:	
Photograph Taken? Photo #	Yes []	No [X] Describe:	
Inner Appearance		MARED	
Integrity of Well Casing	Describe:		
Integrity of Cap Seal	Ves []	No [] Describe:	NA
Surface Water in Casing?			
Well Casing Diameter		Steel []	Stainless Steel []
Well Casing Material		Slip []	Expansion Plug [X] None []
Inner Cap	Groove	Indelible Mark [X]	None []
Reference/Measuring Point	Yesi	No 🔀 Describe:	
Evidence of Double Odding.		-	
Downhole			
Odor		NO[] Describe.	
PID Reading	0.0.0 ppm	Depth to LMADI	feet (nearest 0.01) N/A I
Depth to Water (to top of casing)	feet (nearest 0.01)	Depth to LINAPL	
Total Well Depth (to top of casing)	feet (nearest 0.1)		
Sediment (Hard/Soft Bottom)	Describe:		
Additional Comments:			

LOULD NOT MEASURE - WELL DAMAGED - RISER TILTED

STRONG ODOR

MALCOLM

SITE/PROJECT NAME: DATE OF INSPECTION: WELL DESIGNATION: WELL LOCATION:

Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing	Describe:	OK				
Integrity of Cap Seal Surface Water in Casing?	Describe: Yes []	oK	No []	Describe:	MA	
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	<u>2</u> inches PVC [X] Threaded [] Groove [] Yes []	·	Steel [] Slip [] Indelible N No [k]	Mark [K) Describe:	Stainless Steel [] Expansion Plug X] None []	None []

Downhole

Downnoie							
Odor .	Yes[]	No [X]	Describé:				_
PID Reading	1_0 ppm				fact (necreat 0.01)	NUA I	1
Depth to Water (to top of casing)	3.21 feet (nearest 0.01)	Depth to L	NAPL		_ reet (nearest 0.01)	IN/A [1
Total Well Depth (to top of casing)	feet (nearest 0.1)						
Sediment (Hard/Soft Bottom)	Describe:			·			

2

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

INSPECTOR:

N/A []

N/A []

No[]

No [X]

No [K]

No[]

No 🔀

Bentonite []

Stainless Steel []

Toward Wellhead []

Describe: _

Describe: ___

Describe:

Columbia Mills

_____ inches

_____feet Describe:

Steel [] _____ inches

Yes[]

Yes []

Yes[]

Yes [X]

Yes[]

Cement [] Describe: ____

Away from Wellhead 🔀

6/17/09

LFP-8

PROJECT NUMBER: 0266363

JRW, JR (MPI)

Other _____

Not apparent [] Other _____

Describe: _____



Outward Appearance

Flushmount Diameter
Approximate Stickup Height
Integrity of Protective Casing
Protective Casing Material
Protective Casing Width or Dia.
Weep Hole in Protective Casing
Surface Seal/Apron Material
Integrity of Surface Seal/Apron
Surface Drainage
Bollards Present?
Well ID. Visible?
Lock Present and Functional?
Photograph Taken? Photo #

Inner Appearance

Integrity of Well Casing	Describe: <u>Ok</u>			
Integrity of Cap Seal	Describe:	No [] Describe:	NA	
Surface Water in Casing ! Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point	<u>Z</u> inches PVC [★] Threaded [] Groove []	Steel [] Slip [] Indelible Mark [≽] No 1≼ 1 Describe:	Stainless Steel [] Expansion Plug 🔀] None []	None []
Evidence of Double Casing?	162[]			

Downhole

Downline		NI- N/1	Deceribe:			
Odor	Yes[]		Describe.			_
PID Reading		Denth to Li	NAÐI	feet (nearest 0.01)	N/A [1
Depth to Water (to top of casing)	feet (nearest 0.01)	Depth to L				
Total Well Depth (to top of casing)	feet (nearest 0.1)					
Sediment (Hard/Soft Bottom)	Describe:					_

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
LPP-09		

inches	N/A []				
feet	N/A []				
Describe:			······		
Steel []	Stainless Steel []		Other		
inches					
Yes[]	No[]				
Cement []	Bentonite []		Not apparent [] Other		
Describe:					
Away from Wellhead 📐]	Toward V	Velihead []			
Yes[]	No 🔀	Describe:			
Yes []	No [🍾]	Describe:			
Yes	No 🔀	Describe:	NOLOCK		
Yes []	No 🔀	Describe:			



Outward Appearance

Inner Appearance

Integrity of Well Casing Integrity of Cap Seal	Describe: <i>0 K</i> Describe: <i>0 K</i> Yes [_]	No[] Describe:	MA	
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [X] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible Mark [X] No [X] Describe:	Stainless Steel [] Expansion Plug [X] None []	None []

Downhole

Downline			Deceriber			
Odor	Yes []		Describe.			
PID Reading	ppm	Durah ta U		feet (nearest 0.01)	N/A []	1
Depth to Water (to top of casing)	feet (nearest 0.01)	Depth to L	NAPL			
Total Well Depth (to top of casing)	feet (nearest 0.1)					
Sediment (Hard/Soft Bottom)	Describe:	<u> </u>				-

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/07	INSPECTOR:	JRW, JR (MPI)
LFP-10		

inches	N/A []		
feet	N/A []		
Describe:		,	·····
Steel []	Stainless S	Steel []	Other
inches			
Yes[]	No[]		
Cement []	Bentonite []	Not apparent [] Other
Describe:			
Away from Wellhead [X	Toward W	ellhead []	
Yes []	No [🗙	Describe:	
Yes []	No 🔀	Describe:	
Yes 🔀	No[]	Describe:	
Yes []	No [🖊]	Describe:	

A CONTRACT Display Monitoring Well Inspection Form.xls
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Outw

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
199-11		

Outward Appearance Flushmount Diameter Approximate Stickup Height	Non-inches	N/A [] N/A []		
Integrity of Protective Casing Protective Casing Material Protective Casing Width or Dia. Weep Hole in Protective Casing Surface Seal/Apron Material Integrity of Surface Seal/Apron Surface Drainage Bollards Present? Well ID. Visible? Lock Present and Functional? Photograph Taken? Photo #	Describe: Steel [-] inches Yes [] Cement [] Describe: Away from Wellhead [] Yes [] Yes [] Yes [] Yes []	Stainless Steel [] No [] Bentonite [] Toward Wellhead [] No [] Describe: No [] Describe: No [] Describe: No [] Describe:	Other Not apparent [¥] Other	
Inner Appearance Integrity of Well Casing Integrity of Cap Seal Surface Water in Casing? Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	Describe: Describe: Yes [] inches PVC [] Threaded [] Groove [] Yes []	No[] Describe: Steel[] Slip[] Indelible Mark[] No[] Describe:	Stainless Steel [] Expansion Plug [] None [] None []	
Downhole Odor PID Reading Depth to Water (to top of casing) Total Well Depth (to top of casing) Sediment (Hard/Soft Bottom)	Yes [] <u>51.6</u> ppm <u>22.89</u> feet (nearest 0.01) feet (nearest 0.1) Describe:	No [] Describe: Depth to LNAPL	feet (nearest 0.01) N/A []	
Additional Comments:		Dian		

Burrowy Rodent Hole Man Piezo.



Outward Appearance

Inner Appearance Describe: _tilted Integrity of Well Casing Describe: _____ Integrity of Cap Seal Describe: MA No[] Yes[] Surface Water in Casing? 2___ inches Well Casing Diameter Stainless Steel [] Steel [] PVC [🖌 Well Casing Material None [] Expansion Plug [X] Slip [] Threaded [] Inner Cap None [] Indelible Mark [x] Reference/Measuring Point Groove [] Describe: No 🔀 Evidence of Double Casing? Yes []

Dow	nhole
-----	-------

Downhole		No [🗡	Describe:		
Odor	Yes				
PID Reading		Depth to L	NAPL	leet (nearest 0.01)	N/A
Depth to Water (to top of casing)	teet (nearest 0.01)	Depinto =			
Total Well Depth (to top of casing)	ZL teet (nearest 0.1)				
Sediment (Hard/Soft Bottom)	Describe:		·		

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
289-72		

inches	N/A [] N/A []	
Describe: None	Stainless Steel []	Other
inches Yes[]	No [] Bentonite []	Not apparent [] Other
Describe:	Toward Wellhead []	
Yes[] Yes[] Yes[] Yes[]	No [X]Describe:No [X]Describe:No [X]Describe:No [X]Describe:	NOLOCK

1

Romit	Hole wear	well	Piezo



Outward Appearance

Inner Appearance

Integrity of Well Casing Integrity of Cap Seal Surface Water in Casing?	Describe: <u>ok</u> Yes[]	No[] Describe:	uA	
Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	inches PVC [▲] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible Mark [≯] No [≱] Describe:	Stainless Steel [] Expansion Plug [¥] None []	None []

Downhole

Downhole		No [36]	Describe:			-
Odor	Yes[]					
PID Reading	<u>0</u> . <u>0</u> ppm	Dopth to L		feet (nearest 0.01) N	J/A [j
Depth to Water (to top of casing)	6.50 feet (nearest 0.01)	Depinio				
Total Well Depth (to top of casing)	teet (nearest 0.1)					_
Sediment (Hard/Soft Bottom)	Describe:					

Additional Comments:

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6/17/09	INSPECTOR:	JRW, JR (MPI)
LEP-B		

Other _____

Describe: _____

Not apparent [] Other _____

N/A[]

N/A[]

No[]

No 🖍

No [7]

No[]

No 🔁]

Bentonite []

Stainless Steel []

Toward Wellhead []

Describe: ____

Describe: ____

Describe: _____

____ inches

____ feet Describe: None

Steel [] ____ inches

Yes[]

Yes []

Yes[]

Yes [>]

Yes[]

..

Cement [] Describe: ___

Away from Wellhead 🔀]

AK.

	 1-



Outward Appearance

GROUNDWATER MONITORING WELL INSPECTION

Columbia Mills	PROJECT NUMBER:	0266363
6-17-09	INSPECTOR:	JRW, JR (MPI)
LFP-14		

inches feet	N/A [] N/A []	
Describe: Steel []	Stainless Steel []	Other
Yes [] Cement []	No [] Bentonite []	Not apparent [] Other
Away from Wellhead [K] Yes [] Yes [] Yes [] Yes []	Toward Wellhead []No [★]Describe:No [★]Describe:No [★]Describe:No [★]Describe:	NOLOUK

Inner Appearance Integrity of Well Casing	Describe: <u>LILTED</u>			
Integrity of Cap Seal		No[]	Describe:	NA
Surface Water in Casing? Well Casing Diameter Well Casing Material Inner Cap Reference/Measuring Point Evidence of Double Casing?	PVC [>] Threaded [] Groove [] Yes []	Steel [] Slip [] Indelible M No [X]	1ark [≯] Describe:	Stainless Steel [] Expansion Plug [>] None []
Downhole Odor PID Reading Depth to Water (to top of casing) Total Well Depth (to top of casing)	Yes [] <u>0.0</u> ppm 15:83 teet (nearest 0.01) teet (nearest 0.1)	No [] Depth to L	Describe: NAPL	feet (nearest 0.01) N/A []

Additional Comments:

Sediment (Hard/Soft Bottom)

Describe: ____

New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix E

Groundwater Level Data Form



0266363 / ALB



GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Columbia Mills PROJECT NUMBER: 0266363

DATE:	6/17/2009	
PERSONNEL:	J. Wyckoff	
_	J. Redfield	

Headspace Total Depth Reference Depth to WELL ID Time Date VOC ppm (feet) Point Water (feet) тос MW-1S 6/17/2009 17:20 0.0 4.81 16.70 MW-1D 6/17/2009 17:20 0.0 1.80 28.00 TOC MW-2S 6/17/2009 17:00 17.41 TOC 0.0 11.66 MW-2D 6/17/2009 17:00 0.0 11.77 27.38 TOC MW-3S 6/17/2009 18:45 0.0 5.76 17.59 TOC MW-3D 6/17/2009 0.0 22.03 26.49 TOC 18:45 MW-4S 6/17/2009 11.70 14.10 TOC 19:00 3.9 MW-4D 6/17/2009 19:00 2.4 11.13 27.05 TOC LFP-1 6/17/2009 17:30 43.0 18.36 20.68 TOC LFP-2 6/17/2009 17:25 NM NM TOC Damaged (NM) LFP-3 6/17/2009 17:40 0.0 14.18 17.05 TOC LFP-4 TOC 6/17/2009 17:40 0.0 13.24 14.78 LFP-5 6/17/2009 18:05 0.0 17.26 22.53 TOC LFP-6 6/17/2009 18:05 0.0 13.44 19.72 TOC LFP-7 TOC 6/17/2009 18:30 NM Damaged (NM) NM LFP-8 14.92 6/17/2009 18:35 1.0 13.21 TOC LFP-9 6/17/2009 18:15 0.0 17.93 18.60 TOC LFP-10 6/17/2009 18:20 0.0 TOC 14.90 15.65 LFP-11 6/17/2009 17:30 51.6 22.89 24.93 TOC TOC LFP-12 17:35 6/17/2009 13.9 Dry 18.10 LFP-13 TOC 6/17/2009 17:58 7.73 0.0 6.50 LFP-14 6/17/2009 18:00 0.0 25.83 30.98 TOC

Notes:

LFP-7 and LFP-2 damaged. Riser pipes broken at ground surface.

No LNAPL Reported

NM - not measured

New York State Department of Environmental Conservation Columbia Mills Site 2009 Annual Groundwater Monitoring Report

Appendix F

Groundwater Sampling Purge Logs



0266363 / ALB


WELL NUMBER:	-15		DATE:	6/18/09	
PROJECT NAME: PROJECT NUMBER: SAMPLERS:	Columbia Mills 0266363 JRW, JR				
 A: Total Casing and Sci B: Casing Internal Diam C: Water Level Below T D: Volume of Water in C v = 0.0408 (B)² x (reen Length: heter: fop of Casing: Casing: (A-C) = D	16.70 Z 4.24 Z,1		Well I.D. 1" 2" 3" 4" 5" 6" 8"	Vol. Gal./ft. 0.04 0.17 0.38 0.66 1.04 1.50 2.60
v = 0.0408 ()² x	(-) =		gal.

PARAMETER		ACCUMULATED VOLUME PURGED											
Time	1045	1050	1105	110	1115	ino	1125						
Gallons	0			[5,0						
Depth to Water	465	4.82	4.95	4.97	4,98	4,99	5.01						
pH	7.79	7,40	7.22	7,19	7,18	7.18	718						
Conductivity (mohm/cm	0.372	363	. 367	,362	.361	1361	.361						
Turbidity (ntu)	222	92	28	12.3	14.5	13.4	13,6					ļ	
Disolved Oxygen (mg/l)	4.60	0.0	0,0	0.0	0,0	0,0	0,0						
Temperature (°C)	11.54	11.28	11.16	4.17	11.19	11,16	11.17						
Salinity	0	0	0	0	6	0	0						
TDS	.24	.24	.24	0,24	0,24	0.24	. 24						
Redox (mV)	-66	-104	-134	-141	- 144	-146	-148						
······································													

Notes:	1044-Initiate proper	
	1125- Finish purse, collect spondo	
	- pined = Scallons.	
	- Collect Dup Mw-x (11:30)	



WE	LL NUMBER:	1-1D	_	DATE:	6/18/09	
PRO PRO SAN	DJECT NAME: DJECT NUMBER: MPLERS:	Columbia Mills 0266363 JRW, JR	3			
A:	Total Casing and Scr	een Length:	28,00		Well I.D.	Vol. Gal./ft.
B:	Casing Internal Diam	eter:	2		1" 2"	0.04 0.17
C:	Water Level Below T	op of Casing:	1.65		3" 4" 5"	0.38
D:	Volume of Water in C	Casing:	4.5		6" 8"	1.50 2.60
	v = 0.0408 (B) ² x ((A-C) = D				
	v = 0.0408 () ²	к(-) =		gal.

PARAMETER		ACCUMULATED VOLUME PURGED											
Time	1152	1155	1200	1205	12,0	1215	1220	1225	1230				
Gallons	б											<u> </u>	
Depth to Water	2,30	2.47	2.6)	2.68	2.75	2.79	2.82	2.85	2.87			ļ	
рН	7,40	7,42	7.45	7.36	7.24	7.21	-7.17	714	212				L
Conductivity (mohm/cm	o 421	417	,368	.324	,314	.308	,301	.308	,302				
Turbidity (ntu)	67.9	64)	49.0	39.9	29.3	27.2	25.4	23.9	22.8				
Disolved Oxygen (mg/l)	1.77	00	0.0	0.0	0.0	0:0	0.0	0.0	6.0				
Temperature (°C)	11,22	1106	10.94	10:94	10.84	10.83	10.86	10.79	10.84				
Salinity	0.0	0,0	0.0	0.0	0,0	0.0	0,0	0.0	0.0				
TDS	,27	0.27	.24	.21	.20	.20	.20	120	019				
Redox (mV)	112	62	-143	.136	-132	-131	-13)	-133	-132		<u> </u>		
									ļ				
													1

1152 Initiate purge, Notes: 1230- Finish pury, collect somph. - purged = 5 gallons



PROJECT NAME:	Columbia Mills	<u> </u>	
PROJECT NUMBER:	0266363		
SAMPLERS:	JRW, JR		
			Vol.
A: Total Casing and S	Screen Length: /7.43	Well I.D.	Gal./ft.
~		1"	0.04
B: Casing Internal Dia	ameter: 2	2"	0.17
		3"	0.38
C: Water Level Below	Top of Casing: 11.68	4"	0.66
-		5"	1.04
D: Volume of Water i	n Casing: I.O	6"	1.50
		8"	2.60
$v = 0.0408 (B)^2$	x (A-C) = D		

PARAMETER		ACCUMULATED VOLUME PURGED										
Time	1308	1315	1320	1325	1330	1335	1340	1345	1356	1355	1700	
Gallons	0											
Depth to Water	12.38	13.18	i4.00	14.35	14.65	15:01	15.20	15145	1585	16.12	16:30	
pH	1.20	6.82	6,52	6.60	6.60	6.65	6.68	6.72	6.77	6.79	6.87	
Conductivity (mohm/cm	.476	1357	1338	1337	.357	.386	,406	.419	.440	1444	.452	
Turbidity (ntu)	37.9	1519	143	11.4	81.8	139	206	414	683	249	1237 34	
Disolved Oxygen (mg/l)	9158	4.54	4.66	4.36	401	3,87	371	3.68	355	3.32	5.70	
Temperature (°C)	1443	10:65	10.77	10.50	10.44	10:38	10.34	10.38	10.32	10.26	10.2)	
Salinity	0,0	6,0	010	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TDS	132	,23	.22	022	,23	.25	.26	.27	.29	.29	. 29	
Redox (mV)	143	152	16)	165	168	171	172	175	179	130	181	
	1											
······	1											

Notes: 1308 Initiale page 1403 - Parcel well Dry Parcel = 40 polano (1963 - Collected Sample From well Piss metals (Filtered/un Filtered) (0655

. 4

MALCOLM PIRNIE	1	WELL DEVELOPMENT/ PURGING L									
WELL NUMBER:	D			DATE:		6/18	1200	9			
PROJECT NAME:ColPROJECT NUMBER:02SAMPLERS:JF	blumbia Mills 266363 3W, JR										
A: Total Casing and Scree	n Length:	27.2	7			W	Vell I.D	•	Vol. Gal./ft.		
B: Casing Internal Diamete	er:	2					' 2" 3"		0.04 0.17 0.38		
C: Water Level Below Top	of Casing:	11.72	÷				4" 5"		0.66		
D: Volume of Water in Cas	ing:	2.64					6" 8"		1.50 2.60		
v = 0.0408 (B) ² x (A-	C) = D						-				
v = 0.0408 ()² x (-) = _	<u> </u>	2.64	•	g	al.		
PARAMETER	····· ···		CCUM	IULATE	D VOL	UME PI	JRGE	2			
Time /	15 1:20 1:25	1:30	1:35	1:40	1:45	1:50	1:55	2:00	2:05		

11110		1.0.0			11/25	11	11 1 2				<u>u</u> .	
Gallons	0				2			2.5				
Depth to Water	11.72	14.89	16,56	17.80	18.31	18:78	19.01	19.20	19.42	19.61	19.86	
рН	7,70	7.64	7.62	7.63	7,64	7,66	7.66	7,67	7.68	7.69	7,69	
Conductivity (mohm/cm	0.42	.413	,411	.410	,411	404	1416	,416	418	,419	.431	
Turbidity (ntu)	\$8.0	55.8	55.2	. 49.8	43.6	48,2	727	73.8	81.1	87.4	84.5	
Disolved Oxygen (mg/l)	0.36	0	D	0	0.17	0.49	0,0	ð	ð	Ø	0	
Temperature (°C)	10.4	10.36	jD,il	10.27	10.23	11.22	11.45	11.45	11.42	11.49	10.77	
Salinity	D	0	0	ð	D	0	0	0	0	0	0	'
TDS	027	0.27	0.27	0.27	0.27	0.26	0.27	0.27	0.27	0.27	0.28	
Redox (mV)	32	37	44	49	55	59	61	62	65	68	73	

Notes: Initiated purge at 1:15



WELL NUMBER:	<u>v-35</u>	DATE: 6/	8/09	
PROJECT NAME: PROJECT NUMBER: SAMPLERS:	Columbia Mills 0266363 JRW, JR			
 A: Total Casing and Sc B: Casing Internal Diam C: Water Level Below T D: Volume of Water in t 	reen Length: 17.70 heter: Z Top of Casing: 5.76 Casing: 2.0 (A, C) = D	 	Well I.D. 1" 2" 3" 4" 5" 6" 8"	Vol. Gal./ft. 0.04 0.17 0.38 0.66 1.04 1.50 2.60
$v = 0.0408 (B)^2 x$ v = 0.0408 () ² x (-) =		gal.

PARAMETER		ACCUMULATED VOLUME PURGED										
Time	0830	0235	0390	0845	0850	6355	0900	0785				
Gallons												
Depth to Water		1951	1210	13.50	14.80	15.82	17,28					
рН	7.81	7:62	7.59	7.58	7.59	7.57	7.56		<u></u>			
Conductivity (mohm/cm	1644	611	.608	.607	.605	.610	1605					
Turbidity (ntu)	77.9	36.3	24.4	50.8	60.6	88.6	118	A				
Disolved Oxygen (mg/l)	8,43	6.69	6.64	6.58	6.87	6.39	5,93					
Temperature (°C)	11.31	1140	11.57	11:11	12.06	11.75	11.31	L.S.				
Salinity	C	0	0	0	0	0	0				_	
TDS	0.12	.39	,39	.39	.39	139	139	A				
Redox (mV)	222	220	220	219	218	219	219					
	T							2				
								3				
······································	1											

Notes:	0828	-INHate	FN					
	0905-	well pr	yed pry -	PL-yed ~	2.5 gallon	Ś		
6/19/09	0735-	collect som	yele from u	rell, Przyd	~ 150ml,	will attempt to	collect again	late inday

	MALCOLM PIRNIE		WEL	L DE	/ELOP	MENT/ PURC	GING LOG
WE	LL NUMBER:	MW-3D	-		DATE:	6/12/09	
PR PR SA	OJECT NAME: OJECT NUMBER: MPLERS:	Columbia Mills 0266363 JRW, JR					
А: В: С:	Total Casing and So Casing Internal Diar Water Level Below	creen Length: _ neter: _ Top of Casing: _	26,60 2 12.9	1		Well I.D. 1" 2" 3" 4"	Vol. Gal./ft. 0.04 0.17 0.38 0.66
D:	Volume of Water in $v = 0.0408 (B)^2 x$	Casing: _ (A-C) = D	2,5			5" 6" 8"	1.04 1.50 2.60
	v = 0.0408 ()² x	: (-) =		gal.

PARAMETER		ACCUMULATED VOLUME PURGED											
Time	oiw	0925	0930	0935	0136								
Gallons	0												
Depth to Water	12.85	14.38	15.21	2598									
pH 7.58	637	7.43	7.39	7.39									
Conductivity (mohm/cm	1.20	1.21	1.19	1.19									
Turbidity (ntu)	39.6	126	liz	244	<u>入</u>								
Disolved Oxygen (mg/l)	4.21	091	0.26	0.43	Δ		ļ						
Temperature (°C)	10,32	10,2)	10,19	10.46			<u> </u>						
Salinity	0,1	011	0,1	0.1	<u> </u>		<u> </u>	ļ					
TDS	0:8	018	0.8	0.8	à								
Redox (mV)	228	128	224	194	1			<u> </u>					
					24			<u> </u>					
					N N								
				T									

Notes:	0918 initiate june
	0936- Well Purjed Dry, Purjed ~ 1.0 yellon,
6/19/09	0730 - Collect sample from well, purged ~ 200ml, will Attempt Again Lah indy

MALCOLM PIRNIE			W	/ELL	. DEV	VELO	OPM	ENT	/ PU	RGII	NG L	.OG
WELL NUMBER:	4.5	5				DATE:	<u></u>	6/18	2000	1		
PROJECT NAME: PROJECT NUMBER: SAMPLERS:	ls		<u>. </u>	<u></u>								
A: Total Casing and Sc]/	<u>t. 01</u>				V	Vell I.D 1"	·	Vol. Gal./ft. 0.04			
B: Casing Internal Dian	neter:		4	2		-			2" 3"	0.17 0.38		
C: Water Level Below	Top of C	Casing:	11	11.71					4" 5"	0.66 1.04		
D: Volume of Water in	Casing:		i	, 391				6" 1.5 8" 2.6				
v = 0.0408 (B) ² x v = 0.0408 ((A-C) : 0,,,,, ,	= D 2_) 2	x.(2;	3) =		.391		g	al.	
PARAMETER				/	ACCUM	IULATE	D VOL	UME P	URGE) C		
Time	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30			
Gallons	0						3		4			
Depth to Water	12.60	1271	13,19	13.35	13.45	13.52	13.58	13.63	13.66			
рН	726	6.87	6,78	6.79	6.83	6.87	6.92	6.96	6.99			
Conductivity (mohm/cm	:521	.526	.516	503	1497	<u>,494</u>	.491	489	.487			
Turbidity (ntu)	215	158	179	137	115	112	75.5	74.6	76.1			
Disolved Oxygen (mg/l) .65 0 0		0	0	0	0	0	0	0				
Temperature (°C)	11.08	11.11	10.96	10.89	10.91	10.84	10.92	10.90	10.95			
Salinity	0	0	<i>ව</i>	0	0	0	0	$\frac{12}{12}$	<u> </u>	<u></u>		
TDS	1.33	1.54	.53	1.32	1.52	132	· 50-					
Hedox (mV)	-54	1-64	-83	<u>- 41</u>	- 17	-102	-10 1	-111	112			
	+					[
										<u> </u>		
	<u> </u>	L	1	L		L	·	I				

Notes: 07:48 Mikated purge

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MA	LCO	LM
PI	RNI	

WE	LL NUMBER:	40		DATE:	6/18/2009	
PR PR SAI	OJECT NAME: OJECT NUMBER: MPLERS:	Columbia Mills 0266363 JRW, JR				
A:	Total Casing and So	creen Length:	26.95		Well I.D.	Vol. Gal./ft. 0.04
B:	Casing Internal Diar	neter:	2		2"	0.17
C:	Water Level Below	Top of Casing:	11.14		3" 4" 5"	0.38
D:	Volume of Water in	Casing:	2.68		6" 8"	1.50 2.60
	v = 0.0408 (B) ² x	(A-C) = D				
	v = 0.0408 () ² X (-) =	2.68	gal.
<u></u>		T	100			

PARAMETER				ļ	ACCUM	IULATE	D VOL	UME P	URGE	.D			
Time	11.20	11:25	11:30	11:35	11:40	11:45	11:50	11:55	-				
Gallons	0				2.5			4					
Depth to Water	11.14	12,95	12.71	12.70	12.76	12.73	12.71	12.70					·
pН	7.91	7.90	7.60	7.45	7.42	7.40	7.40	7,41					
Conductivity (mohm/cm	1.16	1.06	1,01	1.02	1.02	1.02	1.02	1.0 i					
Turbidity (ntu)	62.8	65.9	146	138	112	80.0	79.5	86.9				1	
Disolved Oxygen (mg/l)	0.98	D	0	Û	ð	<i>v</i>	0	O			_		
Temperature (°C)	18,49	18.22	10.26	jo. 21	10.17	10.30	10,65	10.70					
Salinity	0.1	D	0	0	0	0	0	0			_		
TDS	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.6					
Redox (mV)	65	-109	-113	-117	-/19	122	-123	125					

Notes: initiated purge at 11:20