AECOM Environment

Prepared for:
Superfund Standby Program
NYSDEC
Albany, NY

Prepared by:
AECOM
Latham, NY
60135839
November 2009
Revised: April 2011

Final Periodic Review Report
Fort Edward Landfill Site 5-58-001
Work Assignment No. D004445-19

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Engineering Certification

I, Scott A. Underhill, certify that I am currently a NYS registered professional engineer and that this Periodic Review Report for the Ft. Edward Landfill Site (Site Number # 5-58-001) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Respectfully submitted,

AECOM Technical Services Northeast, Inc.

Scott Underhill 4/25/2011

Scott Underhill Date

Registered Professional Engineer

New York License No. 075332

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1.0 Executive Summary

1.1 Site History and Remedial Program

The Fort Edward Landfill Inactive Hazardous Waste Site (Site) is located in the Town of Fort Edward, Washington County, New York (Figure 1). The Site is approximately 23 acres in size, and is a former mixed-waste landfill (Figure 2).

Volatile organic compounds (VOCs) (vinyl chloride, 1,2-dichloroethene, toluene, xylenes, benzene, and chlorobenzene) and metals (iron and manganese) are identified as the primary contaminants of concern (COC) for the Site.

The selected remedy consisted of a groundwater/leachate collection trench and three extraction wells for plume control, a holding tank, an air stripper, three constructed wetland treatment cells, an effluent "polishing" pond, and the implementation of site controls, including fencing and groundwater monitoring. Based on a review of the deed for the property, institutional controls are not currently present for the Site.

The air stripper was taken off-line in October 1998, after the NYSDEC determined that the constructed wetland treatment cells were providing sufficient VOC removal.

The remediation was conducted in conformance with *Draft DER-10: Technical Guidance for Site Investigation and Remediation* (NYSDEC, December 2002). Regular monitoring is conducted on the treatment system and includes daily remote system monitoring via computer link and monthly visits to collect influent and effluent VOC and metals samples. Groundwater sampling is performed every five quarters to monitor the effects of the remedy on the groundwater contamination. The last groundwater monitoring event occurred in October 2008; the next is scheduled to take place in the first quarter 2010.

1.2 Remedy Evaluation

The periodic review process is used for determining if a remedy is properly managed, as set forth in the Operation and Maintenance (O&M) Manual for the Site (URS, February 2000), and if it is protective of human health and the environment.

The overburden aquifer and landfill leachate is impacted with solvents and metals. Residences and businesses adjacent to the landfill have been provided with a municipal water supply eliminating the potential for the ingestion of COCs from impacted groundwater. The landfill cap eliminates the potential for air transport and direct contact exposures.

The treatment system at the Site was started in September 1998 and was in operation until June 2004. The treatment system was restarted in August 2007 and is currently being operated at a limited capacity. COC concentrations in groundwater are measured in monitoring wells established for this purpose. One of three extraction wells (W-1) is online. The remaining extraction wells cannot (W-2 and W-3) be brought online until upgrades are made to the control system. Overall, the remedial measures in place at the Site continue to be effective in protecting human health.

Volatile organic compound (VOC) concentrations in the system influent are effectively treated by the system and are not detectable in the system effluent.

Since AECOM assumed O&M responsibilities at the Site in July of 2007, the treatment system has run without significant downtime. A spare pump and motor are maintained on the site, so if a pump needs cleaning or a motor fails, the spare unit is installed, minimizing downtime.

The O&M Manual (URS, February 2000) is the only element of a Site Management Plan (SMP) available for the Site. The manual requires groundwater sampling from monitoring wells (MW-1, MW-1A, MW-2, MW-2A, MW-6, MW-6A, MW-6B, MW-7, MW-8, and MW-NEW) on a "five-quarter" basis (i.e., once every 15 months). Groundwater sampling has been conducted continuously since 1998, with the exception of a period from July 2004 through July 2007, during which time no samples were collected. Monitoring well MW-5 has not been sampled since August 2004 due to a damaged riser. There are not sufficient sampling locations downgradient of the Site to effectively delineate the full extent of the groundwater impacts or to ensure that the leachate collection and treatment system is capturing the entire plume. Full understanding of the environmental risks cannot be determined without being able to delineate the extent of the groundwater contamination.

Total annual costs for operation of the treatment system and completion of all required monitoring are approximately $91,500 based on costs incurred from June 2007 through September 2009.

An annual, field oversight PRR is recommended for this site because the remedy includes a treatment system with an O&M Manual as a component of the SMP.

2.0 Site Overview

2.1 Site Background

The Site is a mixed-waste landfill located in the Town of Fort Edward, New York (see Figure 1). The Site is roughly 23 acres and is bounded by the Glens Falls Feeder Canal to the northeast, beyond which is the Kingsbury Landfill; by a wooded area, private residences and commercial businesses (Burgoyne Avenue) to the northwest; by Leavy Hollow Lane and private residences to the west and southwest; and by farm fields to the south and east.

The geology underlying the Site consists of variable thickness of glacially deposited soil underlain by black shale bedrock. The glacial soil consists of delta sands and interbedded sand-clay lenses. The deltaic sediments overlay lacustrine clay and glacial till. On site monitoring wells are screened in the shallow delta sands (MW-1, MW-2, MW-5, MW-6, MW-7, and MW-8), the interbedded san and clay (MW-2A and MW-6A), and the deeper lacustrine clays (MW-1A and MW-6B). The extraction wells are screened at the landfill waste/delta sand interface.

The landfill contains non-hazardous municipal waste and hazardous industrial waste, including polychlorinated biphenyl (PCB)-containing electrical components and solvents. The landfill requires continued site management including operation, maintenance and monitoring (OM&M) of the active leachate collection and treatment system, which has been in operation since late 1998 (refer to Figure 2).

This Periodic Review Report (PRR) has been prepared to evaluate the overall effectiveness of the remedies chosen, and their implementation at the Site. The NYSDEC has determined that the Fort Edward Landfill Site, ID No. 5-58-001, is a Class 2 Site, meaning that the disposal of hazardous waste has been confirmed and the presence of such hazardous waste or its components or breakdown products represent a significant threat to the environment or to public health.

2.2 Remedial History

The Fort Edward Landfill was used for the disposal of approximately 70% municipal waste and approximately 30 percent PCB-containing scrap capacitor waste from General Electric, Inc., as well as solvents, from 1969 to 1982. Following a rise in public concern regarding the use of PCBs in the late 1970s, investigation began on the Fort Edward Landfill Site among others, and the Site was placed on the New York State Registry of Inactive Hazardous Waste Sites (5-58-001).

In 1984, the NYSDEC approved plans and specifications for a containment remedy for the landfill, but allowed the Town of Fort Edward to receive non-hazardous municipal waste until a waste management system was implemented. The landfill was closed in 1991, and a temporary soil cap was installed over the waste materials between 1990 and 1993.

The original on-site leachate collection and treatment system, which discharges treated water to the Glens Falls Feeder Canal to the northeast of the Site, consisted of:

- A groundwater/leachate collection trench and three extraction wells for plume control;
- An air stripper for treatment of VOCs;
- A holding tank;
- Three constructed wetland treatment cells consisting of phragmites plants;
- An effluent collection “polishing” pond; and
- The implementation of site controls, including fencing and groundwater monitoring.

The landfill was covered with a multi-layer cap in 1997 and 1998. The leachate collection and treatment system was designed by URS beginning in 1995, and construction began in July 1997. The remedial system began operating in September 1998. In October 1998, the air stripper was taken off-line since the VOCs were sufficiently being removed by the constructed wetland treatment system. The O&M of the treatment system and groundwater monitoring responsibilities were assigned to AECOM on June 19, 2007. O&M responsibilities were then transferred from AECOM to Aztech Technologies, Inc. (Aztech) on May 28, 2009.

Monitoring, maintenance and reporting of the system’s performance for compliance with permit requirements and its efficiency of operation have been conducted according to the frequency indicated in Section 3.2.1.

3.0 Evaluate Remedy Performance, Effectiveness and Protectiveness

3.1 IC/EC Certification Plan Report

The Institutional and Engineering Controls Certification Form generated by the NYSDEC indicates that the following controls are applicable to the site.

Institutional Controls	Deficiencies Observed	
	Yes	No
Decision Document	▼*	
Ground Water Use Restriction		▲
Land Use Restriction		▲
Soil Management Plan	▼*	
Surface Water Use Restriction		▲
Engineering Controls		
Cover System		▲
Fencing/Access Control		▲
Groundwater Containment	▼**	
Leachate Collection		▲
Point-of-Entry Water Treatment		▲
Pump & Treat	▼**	
Subsurface Barriers		▲

* Does not exist for this Site.
**System is not operating at full capacity.

Neither a SMP nor a Record of Decision (ROD) exists for the Fort Edward Landfill; however, an O&M Manual for the Site is available (URS, February 2000). A review of the O&M manual and *Draft DER-10: Technical Guidance for Site Investigation and Remediation* (NYSDEC, December 2002) suggest the following remedial goals should be applied to the Fort Edward Landfill Site:

- Prevent ingestion of groundwater outside of the landfill boundaries with contaminant levels exceeding drinking water standards;
- Prevent contact with or inhalation of volatiles from contaminated groundwater;
- Prevent the discharge of contaminants to surface water; and
- Maintenance and compliance of engineering and institutional controls.

3.1.1 IC / EC Requirements and Compliance

An inspection of the ICs/ECs currently present at the Site was conducted on October 9, 2009. During the inspection, several deficiencies were observed. The deficiencies include:

Prevent ingestion of groundwater outside of the landfill boundaries with contaminant levels exceeding drinking water standards

Residential and commercial properties adjacent to the landfill have been connected to the municipal water supply thereby preventing the ingestion of impacted groundwater from private wells immediately adjacent to the Site. However the downgradient extent of the impacted groundwater plume is unknown.

The sentinel monitoring network established for monitoring the performance of the leachate collection system is inadequate. No monitoring wells are in place downgradient of MW-5 which has historically had the highest concentrations of COCs of all monitoring wells at the Site. This problem has been designated as severe because without an adequate monitoring network it is not possible to evaluate the effectiveness of the remedy.

Downgradient monitoring well MW-5 is in a state of disrepair. This well is a sentinel well for monitoring the effectiveness of the groundwater collection system. Elevated COCs were noted in the last groundwater samples collected from this monitoring well. This problem is categorized as moderate.

Figure 7 includes a highlighted area of concern to the southeast of the landfill where impacted groundwater may be impacting off site groundwater and surface water.

Prevent the discharge of contaminants to surface water

A pond adjacent to MW-5 may be impacted by groundwater contamination. This pond appears to drain into the canal and may be a transport mechanism for groundwater impacts to the canal. MW-5 is screened at a very shallow depth and high concentrations of VOCs have been detected in samples from this well. Additionally, the PVC pipe cleanout at the eastern leg of the groundwater collection trench was found to be broken, resulting in overflow of water and iron bacteria across the ground into an adjacent wetland area. These issues are categorized as moderate, (as it has the potential for human exposure to impacted surface water) and to cause environmental damage to the adjacent wetlands.

3.1.2 IC/EC Certification Forms

An Institutional and Engineering Conditions Certification Form is provided in Appendix A.

3.2 Monitoring Plan Compliance Report

3.2.1 Confirm Compliance with Monitoring Plan

Activity	Required Frequency (X)		Compliance Dates
	Monthly	Five-Quarter	
Influent/Effluent Sampling	X		August 2007-2009
Water Level Gauging		X	August 2007-2009
Groundwater Sampling		X	August 2007-2009

3.2.2 Confirm that Performance Standards are Being Met

Groundwater Elevations
Water levels were measured at the ten sampled monitoring wells periodically between 2000 and 2009 (Table 1). Measuring-point elevations were obtained from the Final Engineering Report (URS, 1995). Depth-to-water measurements were converted to water table elevations and contoured as shown in Figure 2. The wells selected for contouring were those determined to be screened in the upper delta sand unit underlying the landfill. Wells screened at deeper intervals were not utilized for contouring. The overall direction of groundwater flow beneath the landfill is predominantly to the east.

Groundwater Analytical
Historically, groundwater at the Site has been contaminated with vinyl chloride, total 1,2-dichloroethene, toluene, benzene, chlorobenzene, xylenes, and typical landfill-associated iron and manganese. Polychlorinated biphenyls (PCBs) have not been detected in groundwater samples collected from monitoring wells, except in MW-6 during two sampling events.

The last groundwater monitoring event for the Site took place in October 2008. A site plan displaying the VOC exceedances in wells from the event is presented as Figure 3. Although monitoring well MW-5 was last sampled in August 2004, results from that sampling event have been included in the figure for comparison purposes.

In October 2008, VOC concentrations in the ten sampled monitoring wells ranged from below reporting limits (<10 micrograms per liter [µg/L]) in most wells, to 23 µg/L of chlorobenzene in MW-6 (refer to Table 2). Samples from only two wells, MW-6 and MW-6A, showed detectable concentrations of VOCs; these wells are located on the northeast (downgradient) side of the landfill. However, MW-5, a downgradient monitoring well which has yielded highly impacted samples in the past, has not been sampled in several years.

Since 2004, chlorobenzene is the only VOC that has been consistently present at concentrations exceeding the New York State Ambient Water Quality Standards (AWQS). Samples from MW-6 have exceeded the AWQS for chlorobenzene from 1995 through October 2008. Concentrations of all other VOCs in MW-6 decreased to non-detectable levels between May 1995 and July 2007. Chlorobenzene concentrations in MW-6 have varied between 17 µg/L and 55 µg/L between 1995-2008 with no apparent trend.

MW-5 was last sampled in August 2004, due to damage to the well's solid riser. Historical data indicates that concentrations of total VOCs reached an all-time high in October 2000, followed by a slow decline in 2003 and 2004. No 2001 or 2002 sampling data is available for MW-5. August 2004 exceedances of the AWQS included vinyl chloride (2,100 µg/L) and 1,2-dichloroethene (2,600 µg/L). Additional VOCs that slightly exceeded the AWQS were 1,1-dichloroethene, benzene, ethylbenzene, toluene and xylenes.

Analytical results from MW-6 indicated detectable concentrations of PCBs in 2004 and 2008 that exceeded the AWQS.

During the October 2008 sampling event, all monitoring wells, with the exception of upgradient well MW-8, exceeded the AWQS for several individual metals (Table 2). MW-6, MW-6A and MW-6B contained the most individual metals. Mercury was the only metal in the 23-metal CLP scan that was not detected. The most commonly exceeded AWQS was for iron (in eight of ten sampled wells), followed by sodium (seven wells) and manganese (five wells). Concentrations of arsenic, cadmium, chromium, lead, iron and nickel were significantly lower in most wells than in the July 2007 groundwater samples. **Figure 5** displays the metals results for each well sampled in October 2008. Data from the August 2004 sampling of MW-5 is also included in the figure.

Influent and Effluent
The limitations for the treatment system effluent discharged to the feeder canal are as follows:

Analyte	**Concentration (µg/L, Daily Maximum)***
Instantaneous pH (Range)	6.0 - 9.0 Standard Units
Total Dissolved Solids	500,000
Total Suspended Solids	50,000
Arsenic	150
Barium	3,500 (Daily Average)
Cadmium	1
Chromium (Total)	210
Cobalt	5
Copper	24
Iron	300
Lead	3.2
Mercury	0.8
Nickel	9.6
Vanadium	14
Zinc	170
Vinyl Chloride	50
Chloroethane	20

Analyte	Concentration (µg/L, Daily Maximum)*
Methylene Chloride	50
1,1-Dichloroethane	30
1,2-Dichloroethene (Total)	30
Chloroform	150
Bromodichloromethane	30
Benzene	10
Toluene	10
Chlorobenzene	10
Ethylbenzene	10
Xylenes, Total	10
Phenols, Total Phenolics	8 (Daily Average)
Aroclor 1016 (PCB)	ND (0.065)
Aroclor 1221 (PCB)	ND (0.065)
Aroclor 1242 (PCB)	ND (0.065)

* Unless otherwise indicated

Monthly system influent and effluent monitoring by AECOM began in September 2007 (refer to Tables 3 and 4, respectively). Since that time, the reported VOC concentrations in effluent have not exceeded the permit limitations established for the system. Exceedances of the permit limitation for iron have taken place on numerous occasions, the most recent of which was in June 2009 (see Table 4). Iron is often present in Site groundwater above the AWQS as a natural condition of the site. Due to the frequency of flooding at the effluent discharge point to the Glens Falls Feeder Canal, samples are often collected at an overflow location, at which water has received a lesser degree of treatment than water exiting the effluent polishing pond and entering the Feeder Canal. Therefore, not all of the iron exceedances are representative of the actual concentrations being discharged to the Glens Falls Feeder Canal.

Since 2007, vinyl chloride concentrations have consisted of 37% to 85% of the total VOCs in the treatment system influent samples (Figure 4). Concentrations of vinyl chloride in the influent have ranged from non-detect in late 2007 to 780 µg/L in May 2008. Vinyl chloride has been nondetect in treatment system effluent samples.

Analysis of VOC concentrations in the treatment system influent since 1998 indicates no significant increase or decrease over time (see Table 3). The variability of reported VOCs in the influent may be related to the proportions of groundwater drawn from the collection trench and the extraction wells prior to treatment.

Following start-up of the remediation system in September 1998 and through February 1999, samples were regularly collected from the air stripper effluent and/or from effluent from each of the three constructed wetland treatment cells, presumably for evaluation of the effectiveness of each of the treatment processes at the Site. These results are presented in Appendix B.

3.3 Operation and Maintenance Plan Compliance Report

The current O&M program involves operation and maintenance of the groundwater treatment system, specifically:

- Remote system monitoring via computer link;
- Performing system maintenance; and
- Collection of influent and effluent VOC and metals samples.

3.3.1 O&M Plan Compliance Report

Activity	Required Frequency (X)			Compliance Dates
	Daily	Monthly	Quarterly	
Remote System Monitoring	X			2007-2009
System Maintenance	As Necessary			2007-2009
Influent and Effluent Sampling		X		2007-2009

3.3.2 Evaluation of O&M Activities

Evaluation of Treatment Units

AECOM began monthly performance monitoring of the treatment system influent and effluent in August 2007. Samples are analyzed for select VOCs by EPA method 8260 and select metals by EPA method 6010.

The influent and effluent of the treatment system are sampled monthly. Results of the influent and effluent sampling that was performed between September 1998 and June 2009 are presented in Figures 5 and 6, respectively. VOCs have not been detected in the effluent since June 2003. No data was collected between June 2004 and August 2007, presumably because the leachate collection and treatment system was not in operation.

In 2009, various individual metals, including barium, lead, mercury and zinc, among others, were detected during each sampling event. However, iron is the only parameter that has exceeded its effluent limitation. Iron concentrations have been detected at levels up to 50 times greater than the limitation of 300 µg/L. Iron levels have fluctuated greatly over the life of the treatment system; this apparent fluctuation is due in part to the variability of the sampling location. The outfall where the effluent discharges to the Glens Falls Feeder Canal is often submerged due to high water in the canal. When this occurs, the effluent sample is collected from a point between the constructed wetland treatment cells and the effluent polishing pond.

The polishing pond appears to remove the majority of the metals in the water; therefore, analytical data for effluent samples collected before the water reaches the polishing pond are not representative of concentrations actually being discharged into the Glens Falls Feeder Canal.

Vinyl chloride, chlorobenzene, benzene and xylenes have consistently been detected in the treatment system influent during 2009. Since AECOM begin sampling in 2007, the concentration of total VOCs in the influent has generally decreased. However, only one extraction well has been operated during this period. If the other extraction wells are brought on-line there would likely be a spike in influent VOC concentrations. The overall decline in the influent has been marked with fluctuating VOC concentrations which reached a peak in January 2008. The variability of reported VOCs in the influent may be related to the proportions of groundwater drawn from the collection trench and the extraction wells prior to treatment. Total phenols have also occasionally been detected in the effluent; the highest concentration was 0.51 milligrams per liter (mg/L) in March 2009.

The extraction well is subject to drawdown and recovery periods, resulting in intermittent contributions to the influent stream. Flow meters on the influent pumps and in the pretreatment building are not currently operational; therefore, a correlation between influent flow rates and concentrations cannot be made. Moreover, samples have not been drawn from individual influent streams for chemical analysis.

Site Maintenance

Since AECOM assumed O&M responsibilities at the Site in July of 2007, the treatment system has run without significant down time. However, the system has not operated at full capacity for several years. Only one of three extraction wells, W-1, was online during the period July 2007 through May 2010. In June 2010, W-1 was damaged beyond repair when the O&M contractor attempted to pull the submersible pump. Consequently, no extraction wells were online from June 2, 2010, until at least February 3, 2011, the last date on which AECOM remotely monitored the treatment system.Pumping from the remaining two extraction wells, W-2 and W-3, cannot be resumed until upgrades are made to the control system. Aztech began performing system O&M and influent/effluent sampling activities in May 2009. Routine maintenance is conducted as necessary. A detailed discussion of all system maintenance activities since 2007 have been provided to the NYSDEC in AECOM's Quarterly Operation, Maintenance and Monitoring Reports (2007-2009) and will not be fully reiterated herein. Notable repairs and/or enhancements to treatment system since 2007 included:

- **July 2007** - Vacuumed materials from the bottoms of the three extraction well manholes. Started all three submersible pumps – they operated in “hand” mode, but not on “auto” because of communication faults in the control panels at each well. Replaced broken 2” PVC check valve on discharge pump P-201 in treatment building. Installed new pressure gauges on four discharge pumps (P-201 – P-204). None of the pumps work. Disassembled and cleaned the nearly-plugged piping of P-203. Installed pump in effluent collection sump W-5; works in “hand” mode, but not “auto" mode. Attached new combination padlock to site gate and combination lockbox to treatment building.
- **August 2007** - Disassembled and cleaned discharge pump P-204. Installed spare clean, undersized impeller that was onsite. Installed a butterfly valve on the discharge side of the holding tank in the treatment building. Removed pump P-203 for offsite repair. Pulled and checked water level transducers for the three extraction wells and the two collection sumps (effluent and collection trench). Could not pull pump from W-1. Able to run pump in effluent collection sump in “auto” mode. Cleaned the contacts on the holding tank pressure transmitter, and restored the connection of the corroded wires which had prevented the

pressure transmitter from controlling the operation of the discharge pumps. Able to run the submersible pump in W-1 in “auto" mode.

- **October 2007** - Disassembled, cleaned, and reassembled one of the four holding tank discharge pumps (P-202), and put pump back online. Extraction well W-1 pump was put back online. Pulled, cleaned and re-installed submersible pumps in extraction wells W-2 and W-3.
- **February 29, 2008** - Installed a new Goulds 1½-inch pump in building sump.
- **June 23, 2008** - Backflushed the four holding tank discharge pumps. Installed new three-phase motor on pump in W-4 manhole. Determined that the pump is not controlled by the (properly functioning) water-level sensor in W-4 manhole. Once again installed the float-controlled submersible pump in W-4; directed discharge to treatment plant.
- **December 5, 2008** - High water alarm, holding tank overflowing. Three of four holding tank discharge pumps were clogged. Disassembled pumps, cleaned and drilled out impellers, reassembled and restarted. Completely opened force main valve, allowing for maximum flow into holding tank. Cleaned pumps can handle the improved flow.
- **April 16, 2009** - Installed a new 2-horsepower pump in the effluent collection sump. Disassembled and cleaned the 'T' bar that conveys water from the holding tank to the discharge pumps.
- **June 23, 2009** - Aztech flushed holding tank discharge pumps and associated piping. Cleaned stripper and pulled *phragmites* runners from around treatment cells.
- **July 7, 2009** - Aztech arrived at Site to find the holding tank overflowing. Shut down the system, cleaned the piping, pumps and other equipment and backwashed the pipes to the treatment cells, and restarted the system.
- **August 26, 2009** - Pump 3 not working; turn off power at collection sump in landfill. Pumps 1, 2 and 4 continued working.
- **August 27, 2009** - Replace fuses on Pump 3 and restarted system restarted.

4.0 Costs

Since AECOM accepted responsibility for the O&M of the treatment system on June 19, 2007, and, including the time period since Aztech accepted O&M responsibilities on May 28, 2009, the system has run continuously.

Total annual costs for operation of the treatment system and completion of the required monitoring has been approximately $91,500, based on yearly average costs incurred from June 2007 through September 2009. Major cost components are allocated as follows:

Plant Operations	**COST**
Labor & Travel	$21,000
Subcontractors	$2,500
Laboratory Fees	$5,000
Utilities	$6,500
Plant Maintenance	
Labor & Travel	$34,000
Subcontractors	$2,000
Equipment & Repairs	$3,500
Groundwater Monitoring (per event)	
Labor & Travel	$5,000
Laboratory Fees	$3,000
Reporting	
Labor	$9,000
TOTAL ANNUAL COSTS:	**$91,500**

5.0 Conclusions and Recommendations

The periodic review process is used for determining if a remedy continues to be properly managed, as set forth in the O&M Manual, and if the remedy continues to be protective of human health and the environment. The remedial measures in place appear to be effective in protecting human health. Protectiveness of the environment cannot be determined due to data gaps in the monitoring program. Treatment system OM&M should continue until such time as the remedial action objectives have been achieved at the site.

The conclusions and recommendations are based on the October 9, 2009 site inspection, the document review, and site knowledge.

5.1 Conclusions

Maintenance and compliance of engineering and institutional controls which require attention include:

- The groundwater collection system is currently operating in a limited capacity because extraction wells W-2 and W-3 are not functioning. It is possible that impacted leachate from landfill could be impacting downgradient receptors. This problem is categorized as moderate, as it has the potential to cause environmental damage.
- The effluent polishing pond discharge structure requires repair.
- Evaluation of the iron bacteria problems at the Site, including repeated blockage of treatment system pipes, valves and pumps and exceedances of the effluent limitations for iron. This problem has been categorized as moderate. The buildup of iron bacteria in the treatment plant can result in the shutdown of the system.
- The landfill gas vents are in poor condition. Carbon drums for gas treatment were found to contain water preventing or restricting the flow of gasses.
- The system outfall at the feeder canal is often flooded when effluent samples are collected. Historically when the outfall flooded effluent samples are collected from piping prior to treatment in the polishing pond. This may have resulted in false positive metal levels in effluent samples.
- During the site visit the screens on many of the discharge pipes in the surface water collection system were found to be missing or broken. The screens are in place to prevent animals from entering the pipes.

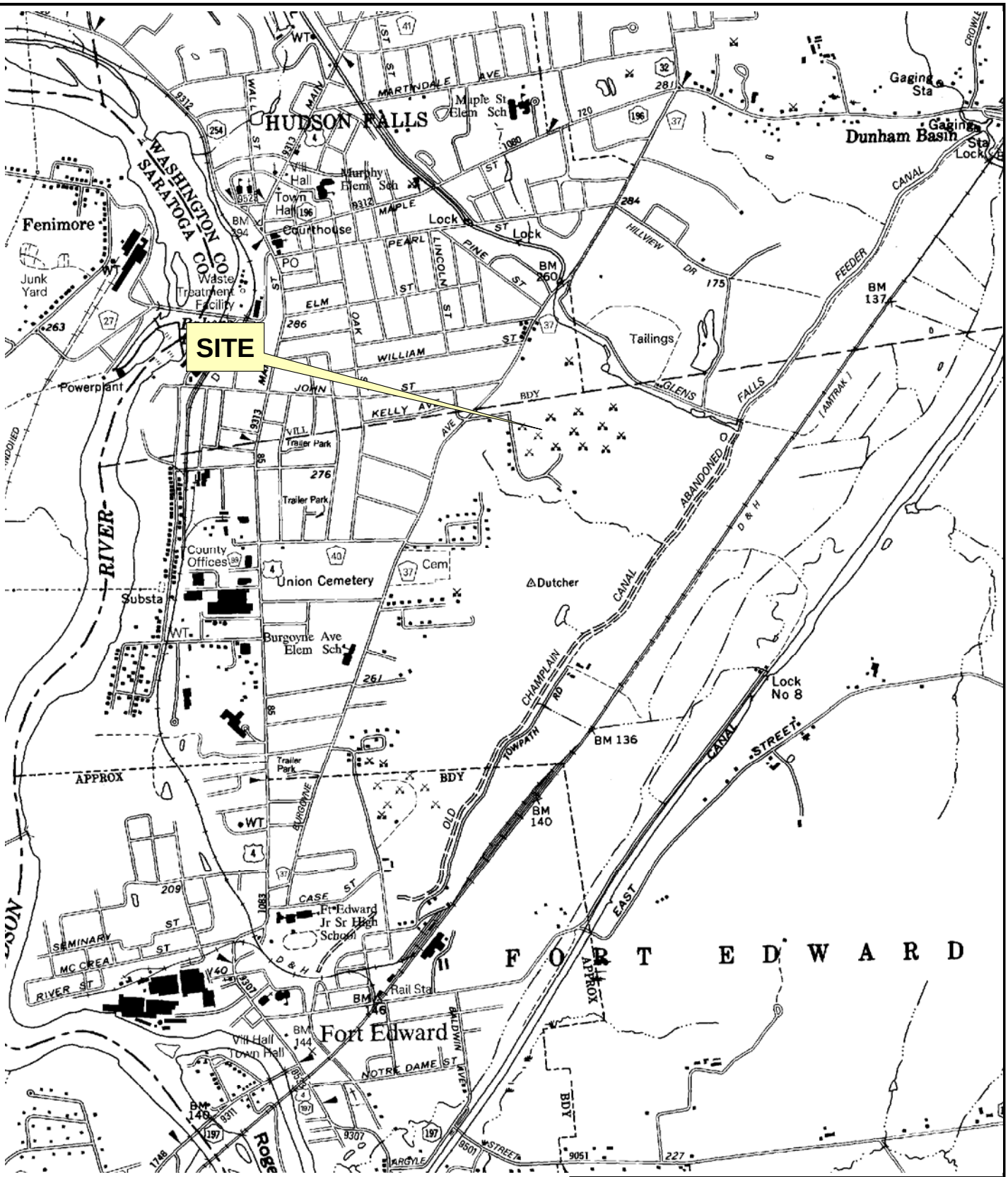
5.2 Recommendations

The following recommendations are made for the Fort Edward Landfill Site:

- All extraction wells should be repaired and brought back online. Flow meters should be added to the wells and treatment system.

- Repair MW-5 (expected to be repaired by removing the protective casing, cutting the riser at ground level, sleeving on a new section of riser, and restoring the existing casing and concrete).
- The broken PVC cleanout should be repaired to prevent further release of water from the groundwater collection trench.
- Treatment of iron should be evaluated and implemented to reduce iron fouling bacteria in the system components.
- Screens should be placed on the discharge pipes from the surface water collection system.
- The landfill gas collection system should be repaired and monitored. Carbon adsorbers should be repaired if they are deemed necessary to treat the landfill gas. The fitting of turbine ventilators to the gas vents should be considered.
- Surface water samples should be collected from the canal and the pond area adjacent to MW-5. Potential sampling locations are presented on Figure 7.
- Evaluation of the existing site hydrogeologic model to confirm that the current system is capable of meeting established goals for the site.
- An effluent sampling port should be installed in the piping between the polishing pond and the feeder canal outfall or the outfall should be raised to prevent flooding.
- Installation of five additional monitoring wells (three 20-ft deep, 2-inch diameter wells downgradient of MW-05, and two 80-ft deep, 2-inch diameter monitoring wells within the limits of the landfill) and data collection, including sampling for the full list of the Site COC. The potential locations for these monitoring wells are presented on Figure 7.
- Completion of screening level calculations to evaluate the performance of the recovery well system and to calculate potential fate and transport of vinyl chloride in the wetland area between the landfill and the Glens Falls Feeder Canal.
- Evaluation of the constructed wetland treatment cells and the polishing pond to determine current/optimal performance. This would include sampling/analysis (VOCs, total/dissolved metals, other water quality parameters) for a mass balance and to determine system efficacy, and measurements and observations to confirm current system capacity (e.g., residence time, solids settling capacity, condition of biota).
- A SMP should be developed for the Site in accordance with NYSDEC guidance.

Figures



EARTH TECH | AECOM

MAP REFERENCE
STUDY AREA CAN BE FOUND ON NYSDOT QUADRANGLE HUDSON FALLS, NY.

FIGURE 1
SITE LOCATION MAP

FORT EDWARD LANDFILL
NYSDEC # 5-58-001

Town of Fort Edward Washington County

Project No. 99163	**Figure No. 1**

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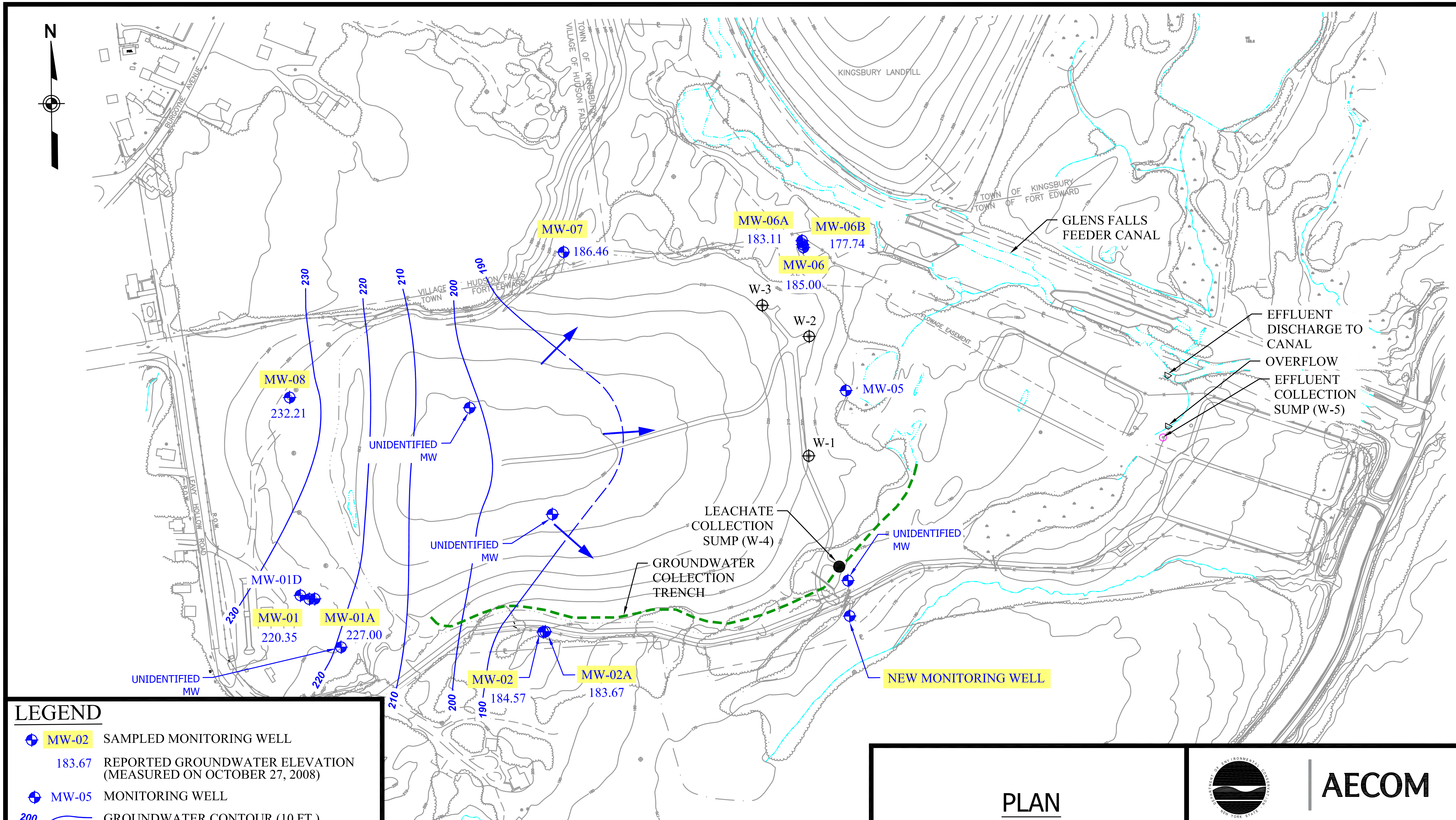


LEGEND

MW-02	SAMPLED MONITORING WELL
183.67	REPORTED GROUNDWATER ELEVATION (MEASURED ON OCTOBER 27, 2008)
MW-05	MONITORING WELL
200	GROUNDWATER CONTOUR (10 FT.) (DASHED WHERE INFERRED)
240	TOPOGRAPHIC CONTOUR
	STREAM/DRAINAGE CHANNEL/POND
	GROUNDWATER FLOW DIRECTION
W-1	EXTRACTION WELL OR COLLECTION SUMP
	GROUNDWATER COLLECTION TRENCH

Map Reference:
Mapping shown based on a plan titled "Groundwater and Surface Water Monitoring Locations", Figure 2-1, by URS Consultants, Inc., including all references.

Monitoring wells labeled as "Unidentified MW" located by a Sub-meter GPS survey performed by Earth Tech, November 2007.

Locations of site features are approximate.

PLAN

150 0 125 250 500

(IN FEET)
1 inch = 250 ft.

AECOM

FIGURE 2
GROUNDWATER MONITORING LOCATIONS AND GROUNDWATER FLOW (OCTOBER 2008)
FORT EDWARD LANDFILL
NYSDEC SITE #5-58-001
Town of Fort Edward, Washington County

Date: October 2009 Project No.: 99163

N

MW-6A (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
CHLOROBENZENE	5	5.2 J
1,3 - DICHLOROBENZENE	3	4.6 J
1,2,4 - TRICHLOROBENZENE	5	7.2 J

MW-6 (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
CHLOROBENZENE	5	23

MW-5 (2004)	AWQS (ug/L)	CONCENTRATION (ug/L)
BENZENE	1	8
1,1 - DICHLOROETHENE	5	11
1,2 - DICHLOROETHENE (Total)	5	1,900 D
ETHYLBENZENE	5	24
TOLUENE	5	27
XYLENE (Total)	5	120
VINYL CHLORIDE	2	2,100 D

BURGOYNE AVENUE
TOWN OF KINGSBURY
VILLAGE OF HUDSON FALLS
KINGSBURY LANDFILL
GLENS FALLS FEEDER CANAL
MW-7 ND
MW-6A
MW-6B ND
MW-6
W-3
W-2
LEACHATE COLLECTION PIPING
MW-5
EFFLUENT DISCHARGE TO CANAL
OVERFLOW
EFFLUENT COLLECTION SUMP (W-5)
MW-8 ND
UNIDENTIFIED MW (LP-1)
ROAD
W-1
EFFLUENT POLISHING POND DISCHARGE
CELL NO. 1
CELL NO. 2
CELL NO. 3
EFFLUENT POLISHING POND
LEAVY HOLLOW ROAD R.O.W.
UNIDENTIFIED MW (LP-2)
LEACHATE COLLECTION SUMP (W-4)
MW-1 ND
MW-1D
MW-2A ND
MW-2 ND
GROUNDWATER COLLECTION TRENCH
UNIDENTIFIED MW
LEACHATE COLLECTION FORCE MAIN
PRETREATMENT BUILDING
MW-1A ND
UNIDENTIFIED MW
NEW MONITORING WELL ND
CHAMPLAIN CANAL

LEGEND

- MW-2 — MONITORING WELL
- ND — VOCs NOT DETECTED
- W-1 — EXTRACTION WELL OR COLLECTION SUMP
- 240 — TOPOGRAPHIC CONTOUR
- SUBSURFACE PIPING
- GROUNDWATER COLLECTION TRENCH
- GLENS FALLS FEEDER CANAL

Notes:

1) Mapping shown based on a plan titled "Groundwater and Surface Water Monitoring Locations", Figure 2-1, by URS Consultants, Inc., including all references.
2) Monitoring wells labeled as "Unidentified MW" located by a Sub-meter GPS survey performed by Earth Tech, November 2007.
3) All groundwater results are from the October 2008 sampling event, with the exception of MW-5, for which the August 2004 results are presented.
4) Locations of site features, including subsurface piping, are approximate.
5) VOCs - Volatile Organic Compounds
6) D - Dilution
7) J - Estimated
8) AWQS - Ambient Water Quality Standard

PLAN

150 0 125 250 500

(IN FEET)
1 inch = 250 ft.

AECOM

FIGURE 3
VOC EXCEEDANCES BY WELL
FORT EDWARD LANDFILL
NYSDEC SITE #5-58-001
Town of Fort Edward, Washington County

Date: October 2009 Project No.: 99163

N

MW-7 (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	143,000
MANGANESE	300	7,800
THALLIUM	0.5	6.4 B

MW-6A (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	27,400
MAGNESIUM	35,000	40,600
MANGANESE	300	2,320
SODIUM	20,000	76,000

MW-6B (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
ANTIMONY	3	3.6 B
CADMIUM	5	39.3
IRON	300	3,160
SODIUM	20,000	46,400

MW-6 (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	120,000
MANGANESE	300	2,610

MW-5 (2003/2004)	AWQS (ug/L)	CONCENTRATION (ug/L)
ARSENIC	25	29
IRON	300	95,000
MAGNESIUM	35,000	63,000
MANGANESE	300	1,100
SODIUM	20,000	320,000
THALLIUM	0.5	2 J

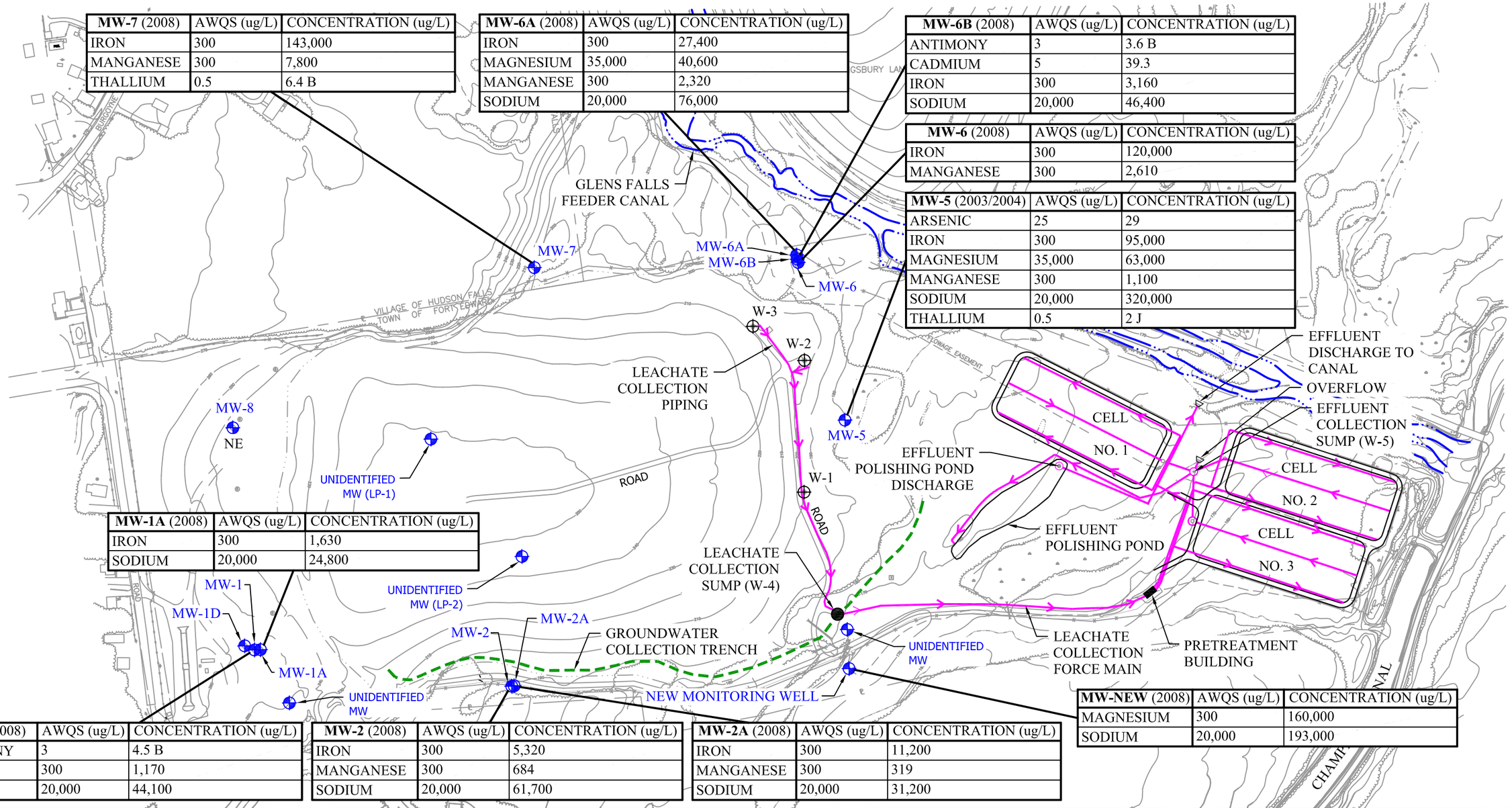
MW-1A (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	1,630
SODIUM	20,000	24,800

MW-1 (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
ANTIMONY	3	4.5 B
IRON	300	1,170
SODIUM	20,000	44,100

MW-2 (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	5,320
MANGANESE	300	684
SODIUM	20,000	61,700

MW-2A (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
IRON	300	11,200
MANGANESE	300	319
SODIUM	20,000	31,200

MW-NEW (2008)	AWQS (ug/L)	CONCENTRATION (ug/L)
MAGNESIUM	300	160,000
SODIUM	20,000	193,000



LEGEND

MW-2	MONITORING WELL
NE	NO METALS EXCEEDANCES
W-1	EXTRACTION WELL OR COLLECTION SUMP
240	TOPOGRAPHIC CONTOUR
	SUBSURFACE PIPING
	GROUNDWATER COLLECTION TRENCH
	GLENS FALLS FEEDER CANAL

Notes:

1) Mapping shown based on a plan titled "Groundwater and Surface Water Monitoring Locations", Figure 2-1, by URS Consultants, Inc., including all references.
2) Monitoring wells labeled as "Unidentified MW" located by a Sub-meter GPS survey performed by Earth Tech, November 2007.
3) All groundwater results are from the October 2008 sampling event, with the exception of MW-5, for which the September 2003 or March 2004 results are presented.
4) Locations of site features, including subsurface piping, are approximate.
5) Only sampling results of metals exceeding the New York state ambient water quality standards (TOGS 1.1.1) are presented.
6) B - Instrument reading less than sample quantitation limit.
7) J - Estimated
8) AWQS - Ambient Water Quality Standard

PLAN

150 0 125 250 500

(IN FEET)
1 inch = 250 ft.

AECOM

FIGURE 4
METALS EXCEEDANCES BY WELL
FORT EDWARD LANDFILL
NYSDEC SITE #5-58-001
Town of Fort Edward, Washington County

Date: October 2009 Project No.: 99163

Figure 5 - Influent Sampling Results (1998-2009)

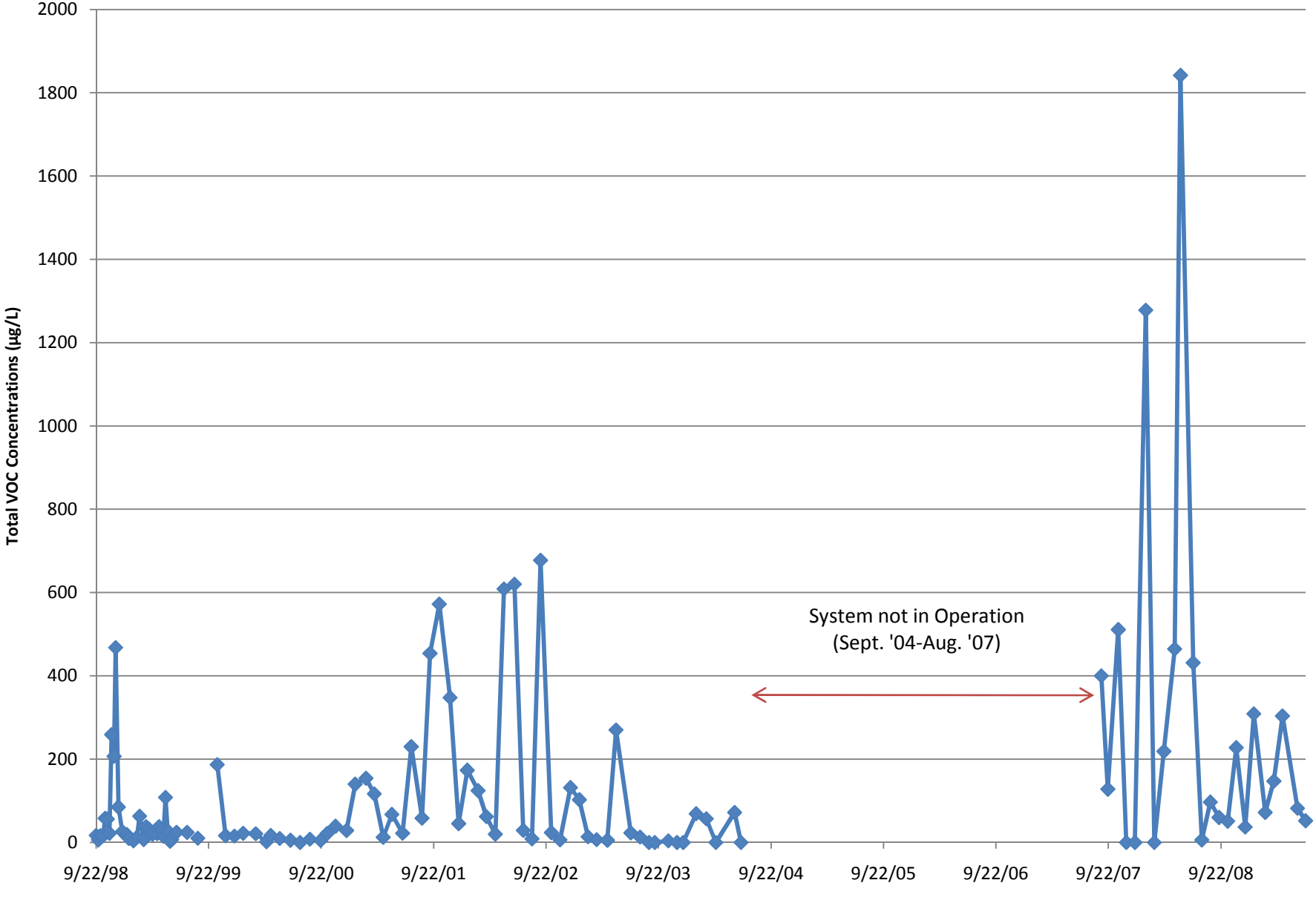
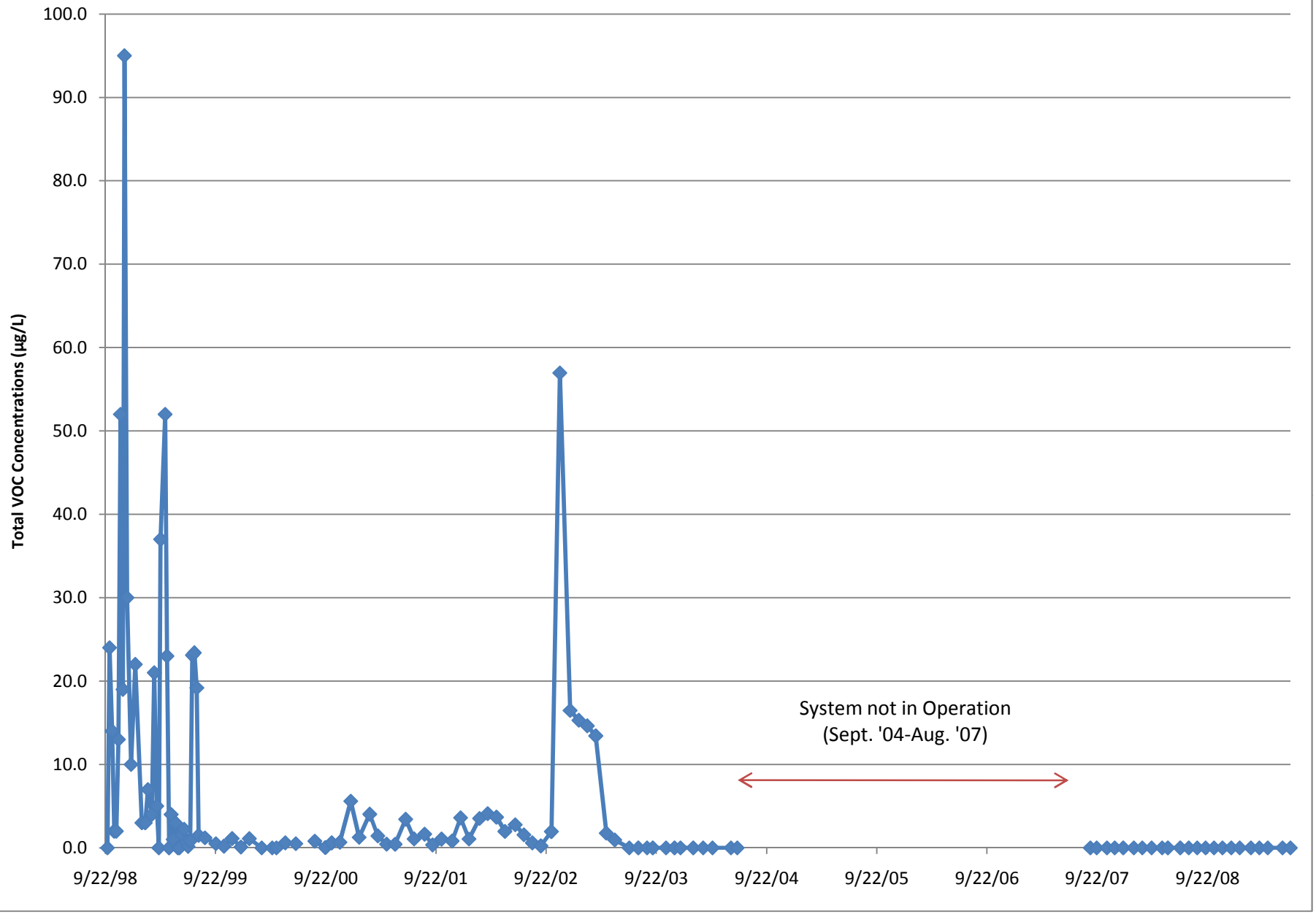


Figure 6 -Effluent Sampling Results (1998-2009)



N

BURGOYNE AVENUE

VILLAGE OF HUDSON FALLS
TOWN OF KINGSBURY

KINGSBURY LANDFILL

GLENS FALLS
FEEDER CANAL

TOWN OF KINGSBURY
TOWN OF FORT EDWARD

VILLAGE OF HUDSON FALLS
TOWN OF FORT EDWARD

MW-7

MW-6A
MW-6B
MW-6

W-3

W-2

LEACHATE
COLLECTION
PIPING

MW

POND

SW
SW
SW

MW

MW-5
(DAMAGED)

MW
VILLAGE EASEMENT

SW

EFFLUENT
DISCHARGE TO
CANAL

OVERFLOW

EFFLUENT
COLLECTION
SUMP (W-5)

CELL
NO. 1

CELL
NO. 2

CELL
NO. 3

EFFLUENT
POLISHING POND
DISCHARGE

W-1

ROAD

ROAD

MW-8

UNIDENTIFIED
MW (LP-1)

MW

LEACHATE
COLLECTION
SUMP (W-4)

MW

EFFLUENT
POLISHING POND

APPROXIMATE LOCATION
OF BROKEN CLEANOUT

LEAVY HOLLOW ROAD
R.O.W.

MW-1

MW-1D

MW-1A

UNIDENTIFIED
MW (LP-2)

MW-2A

MW-2

GROUNDWATER
COLLECTION TRENCH

UNIDENTIFIED
MW

NEW MONITORING WELL

UNIDENTIFIED
MW

LEACHATE
COLLECTION
FORCE MAIN

PRETREATMENT
BUILDING

CHAMPLAIN CANAL

LEGEND

SW	PROPOSED SURFACE WATER SAMPLE LOCATION
MW-2	MONITORING WELL
MW	PROPOSED MONITORING WELL
W-1	EXTRACTION WELL OR COLLECTION SUMP
240	TOPOGRAPHIC CONTOUR
	SUBSURFACE PIPING
	GROUNDWATER COLLECTION TRENCH
	GLENS FALLS FEEDER CANAL
	GROUNDWATER FLOW DIRECTION
	APPROXIMATE AREA OF UNKNOWN IMPACTS

Notes:

1) Mapping shown based on a plan titled "Groundwater and Surface Water Monitoring Locations", Figure 2-1, by URS Consultants, Inc., including all references.
2) Monitoring wells labeled as "Unidentified MW" located by a Sub-meter GPS survey performed by Earth Tech, November 2007.
3) Locations of site features, including subsurface piping, are approximate.

PLAN

150 0 125 250 500

(IN FEET)
1 inch = 250 ft.

AECOM

FIGURE 7
PROPOSED ADDITIONAL MONITORING/
SAMPLING LOCATIONS
FORT EDWARD LANDFILL
NYSDEC SITE #5-58-001
Town of Fort Edward, Washington County

Date: October 2009 Project No.: 99163

Tables

Table 1
Groundwater Elevation Table
Fort Edward Landfill
Town Of Fort Edward, New York
Site #5-58-001

Well #	Well Elevation*	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Bottom
		May 5-6, 2000		October 10-11, 2000		September 9-10, 2003		July 11-12, 2007		October 27-28, 2008		
MW-1	258.87	40.44	218.43	38.19	220.68	38.95	219.92	37.31	221.56	38.52	220.35	48.6
MW-1A	257.51	41.4	216.11	40.2	217.31	40.25	217.26	38.92	218.59	30.51	227	65.07
MW-2	192.59	8.11	184.48	9.6	182.99	9.36	183.23	8.16	184.43	8.02	184.57	18.24
MW-2A	192.4	8.68	183.72	10.2	182.2	10.32	182.08	9.27	183.13	8.73	183.67	26.8
MW-5	183.48	8.13	175.35	8.09	175.39	8.05	175.43	-	-	-	-	-
MW-6	193.08	6.59	186.49	8.35	184.73	8.23	184.85	8.23	184.85	8.08	185	17.9
MW-6A	193.61	9.54	184.07	10.57	183.04	10.5	183.11	10.44	183.17	10.5	183.11	61.3
MW-6B	193.68	16.78	176.9	17.49	176.19	16.4	177.28	15	178.68	15.94	177.74	81.7
MW-7	203.43	18.03	185.4	16.51	186.92	17.69	185.74	15.8	187.63	16.97	186.46	27.5
MW-8	240.24	8.13	232.11	7.91	232.33	-	-	7.8	232.44	8.03	232.21	12.83
MW-NEW	-	5.83	-	8.42	-	7.91	-	7.93	-	7.04	-	22.13

* Elevation Data From URS 1995 Survey

Table 2
GROUNDWATER ANALYTICAL RESULTS (1995-2008)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-1												MW-1A										
Volatiles (µg/L)	**NYSAWQS***	**5/16/95**	**8/9/1995**	**5/5/1999**	**10/21/99**	**05/03/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/12/07**	**10/27/08**	**5/17/95**	**8/9/95**	**5/5/99**	**10/21/99**	**5/2/00**	**10/11/00**	**5/8/02**	**09/09/03***	**03/03/04***	**8/18/04**	**07/12/07**	**10/27/08**
Acetone	50	**5 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,2 -Dichloroethene (Total)	5	ND	ND	ND	ND	ND	**11**	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	**2 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**4 JB**	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**7**	**9**	**1 J**	ND	**3 J**	ND	ND	ND	NA	**1 J**	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	**8 J**	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total VOCs		**5**	ND	ND	ND	ND	**19**	ND	ND	NA	**2**	ND	ND	**7**	**11**	**1**	ND	**3**	ND	ND	ND	NA	**5**	ND	ND
PCBs (µg/L)																									
Aroclor-1221	0.09	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND
Aroclor-1242		NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND
Metals (µg/L)																									
Aluminum	NS	**32,100**	**8,590 J**	**47.7 B**	**140**	**750**	**99 B**	**200 B**	NA	**640**	NA	**8,350**	**169 B**	**815**	**548 J**	**951**	**1500**	**1,800**	**1,900**	**230**	NA	**300**	NA	**11,100**	**996**
Antimony	3	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	**4.5 B**	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND
Arsenic	25	**8.4 J**	**3 B**	ND	ND	ND	ND	ND	NA	**1 J**	ND	ND	**2.4 B**	**11.1**	**10.3**	**8.7**	ND	**11**	**ND**	ND	NA	ND	**8.5**	**18.6**	**12.1**
Barium	1000	**277**	**105 B**	**32.1 B**	ND	ND	ND	ND	NA	**10 J**	**26**	**86.2 B**	**26.4 B**	**20.1 B**	**19.7 B**	**20.5**	ND	ND	ND	ND	NA	**20 J**	**21.9**	**123 B**	**29.6 B**
Beryllium	3	**1.4 B**	**0.56 B**	ND	ND	ND	ND	ND	NA	ND	NA	**0.60 B**	**0.056 B**	**0.09 B**	**0.1 B**	ND	ND	ND	ND	ND	NA	ND	NA	**0.58 B**	**0.11 B**
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**0.24 B**	**0.33 B**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**0.59 B**
Calcium	NS	**75,200**	**74,200**	**41,800**	**39,000**	**43,000**	**43,000**	**56,000**	NA	**23,000**	NA	**43,600**	**53,200**	**14,500**	**19,300**	**12,300**	**16,000**	**31,000**	**62,000**	**12,000**	NA	**50,000**	NA	**32,300**	**22,400**
Chromium	50	**30.9**	**9.5 B**	**2.3 B**	ND	ND	ND	ND	NA	**5 J**	**0.62**	**9.0 B**	**1.2 B**	**1.6 B**	ND	**3 B**	ND	ND	ND	ND	NA	**4 J**	**5.1**	**13.4**	**1.4**
Cobalt	NS	**25.5 B**	**7.5 B**	ND	ND	ND	ND	ND	NA	**0.8 J**	NA	**7.6 B**	**1.5 B**	ND	ND	ND	ND	ND	ND	ND	NA	**1 J**	NA	**6.6 B**	**2.1 B**
Copper	200	**35**	**16.9 B**	**25.6 B**	ND	ND	ND	ND	NA	**2 J**	NA	**9.0 B**	**13.1 B**	**3.7 B**	**2.7 B**	**24.8 B**	ND	ND	ND	ND	NA	**3 J**	NA	**14.1 B**	**11.6 B**
Cyanide	200	ND	NA	**2 B**	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	**45,400**	**13,000**	**498**	**1,100**	**2,200**	**1,100**	**1,600**	NA	**1,100**	NA	**20,100**	**1,170**	**827**	**331**	**750**	**2,100**	**2,600**	**2,800**	**410**	NA	**1,100**	NA	**11,500**	**1,630**
Lead	25	**10**	**2.8 B**	ND	ND	ND	ND	ND	NA	**0.7 J**	ND	**3.8**	**0.81 B**	ND	ND	ND	ND	ND	**4.4**	ND	NA	**0.4 J**	ND	**8.0**	**1.3 B**
Magnesium	35,000 (GV)	**22,900**	**18,000**	**9,740**	**8,200**	**11,000**	**9,800**	**12,000**	NA	**1,800**	NA	**11,200**	**12,000**	**1,420 B**	**919 B**	**1,510**	**2,200**	**2700 B**	**3500 B**	**1400 B**	NA	**10,000**	NA	**6,340**	**2,580 B**
Manganese	300	**798**	**256**	**54.3**	**61**	**74**	**130**	**50**	NA	**0.3 J**	NA	**516**	**50.5**	**18.5**	**8 B**	**21.4**	**76**	**91**	**230**	**13 B**	NA	**42**	NA	**267**	**123**
Nickel	100	**31.6 B**	**11.5 B**	ND	ND	ND	ND	ND	NA	**2 J**	NA	**12.4 B**	**1.7 B**	**2 B**	**1.8 B**	ND	ND	ND	ND	ND	NA	**4 J**	NA	**14.2 B**	**3.5 B**
Potassium	NS	**8,870**	**3,630 B**	**1,360**	ND	ND	ND	ND	NA	**780**	NA	**2,320 B**	**1,430 B**	**2,710 B**	**4,110 B**	**1250**	ND	ND	ND	ND	NA	**1200**	NA	**3,320 B**	**910 B**
Selenium	10	ND	ND	ND	ND	ND	ND	ND	NA	**2.5**	ND	**10.3**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**11.2**	ND
Silver	50	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Sodium	20,000	**46,300 J**	**40,200**	**36,300**	**36,000**	**38,000**	**40,000**	**32,000**	NA	**26,000**	NA	**54,900**	**44,100**	**22,900 J**	**23,200**	**19,100**	**20,000**	**24,000**	**22,000**	**22,000**	NA	**48,000**	NA	**25,600**	**24,800**
Thallium	0.5 (GV)	ND	ND	**3.3**	ND	ND	ND	ND	NA	**0.2 J**	NA	**3.7 B**	ND	ND	ND	**4.4**	ND	ND	ND	ND	NA	**0.9 J**	NA	ND	ND
Vanadium	NS	**60**	**19.1 B**	**3.1**	ND	ND	ND	ND	NA	**0.9 J**	NA	**23.4 B**	**2.0 B**	**7 B**	**3.4 B**	**25.7**	ND	ND	ND	ND	NA	**0.6 J**	NA	**57.0**	**10.4 B**
Zinc	5,000 (GV)	**138 J**	**53 J**	**9.9**	**21**	ND	ND	**140**	NA	**10**	NA	**56.7**	**63.2**	**18.2 BJ**	**6.5 BJ**	**7.1**	**11**	**11 B**	**15 B**	ND	NA	**100**	NA	**52.4**	**36.9**

Notes:

B - Inorganics: The reported value was obtained from an instrument reading that was less than the sample quantitation limit (SQL).

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* New York State Ambient Water Quality Standards (TOGs 1.1.1) GV - guidance value.

BOLD font in shaded cell indicates exceedances of AWQS+GV.

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NS - No Standard or Guidance Value

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Table 2
GROUNDWATER ANALYTICAL RESULTS (1995-2008)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-2												MW-2A											
Volatiles (µg/L)	**NYSAWQS***	**05/11/95**	**08/08/95**	**05/05/99**	**10/21/99**	**05/03/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**	**05/11/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/03/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**
Acetone	50	**3**	**3**	**8**	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	**4**	ND	ND	ND	ND	ND	NA	ND	ND	ND
Benzene	1	**1**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroethane	5	**4**	**3**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,2 -Dichloroethene (Total)	5	**1**	**2**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Methylene Chloride	5	ND	ND	**2**	ND	ND	ND	ND	ND	NA	**5 JB**	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	NA	**4 JB**	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total VOCs		**9**	**8**	**10**	ND	ND	ND	ND	ND	NA	**5**	ND	ND	ND	ND	**6**	ND	ND	ND	ND	ND	NA	**4**	ND	ND
PCBs (µg/L)																									
Aroclor-1221	0.09	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND
Aroclor-1242		ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	ND	ND
Metals (µg/L)																									
Aluminum	NS	**565**	**862**	**329**	**320**	**370**	ND	**93 B**	NA	**74**	NA	**530**	ND	**116**	**76.1 B**	**264**	**430**	**1,000**	**310**	**550**	NA	**230**	NA	**4,810**	**26.9 B**
Antimony	3	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	ND	ND	NA	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Barium	1000	**61.3 B**	**81.6 B**	**74.7**	ND	ND	ND	ND	NA	**20 J**	**26.8**	**27.8 B**	**24.3 B**	**61.5 B**	**68.7 B**	**92.4**	ND	ND	ND	ND	NA	**80 J**	**78.3**	**117 B**	**73.2 B**
Beryllium	3	**0.09 B**	**0.11 B**	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	**0.25 B**	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**15.3**	**0.43 B**	**0.46 B**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**0.080 B**
Calcium	NS	**194,000**	**227,000**	**103,000**	**120,000**	**78,000**	**79,000**	**76,000**	NA	**86,000**	NA	**63,100**	**81,900**	**52,600**	**63,400**	**61,200**	**67,000**	**58,000**	**52,000**	**52,000**	NA	**54,000**	NA	**42,800**	**42,600**
Chromium	50	**1.8 B**	**11.2**	**4.2**	ND	ND	ND	ND	NA	**0.6 J**	ND	**0.69 B**	ND	ND	ND	**3.1**	ND	ND	ND	ND	NA	**0.8 J**	ND	**6.2 B**	ND
Cobalt	NS	**15.4 B**	**13.8 B**	**8**	ND	ND	ND	ND	NA	**1 J**	NA	**2.3 B**	**0.59 B**	**1.4 B**	ND	ND	ND	ND	ND	ND	NA	**0.5 J**	NA	**3.1 B**	ND
Copper	200	**4.7 B**	**10.9 B**	**30.6**	ND	**71**	ND	ND	NA	**3 J**	NA	**618**	**24.2 B**	**2 B**	**5.1 B**	**23.9**	ND	ND	ND	ND	NA	ND	NA	**5.5 B**	**4.3 B**
Cyanide	200	ND	NA	**1.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	**2.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	**1,270**	**8,030**	**7,620**	**2,900**	**15,000**	**1,100**	**5,800**	NA	**5,200**	NA	**9,860**	**5,320**	**4,620**	**4,890**	**4,380**	**8,600**	**13,000**	**7,500**	**9,300**	NA	**6,800**	NA	**15,200**	**11,200**
Lead	25	ND	ND	**6.3**	ND	ND	ND	ND	NA	**2 J**	ND	**1.3 B**	ND	ND	ND	**3**	ND	ND	ND	ND	NA	ND	ND	**2.6 B**	ND
Magnesium	35,000 (GV)	**62,300**	**71,400**	**31,800**	**31,000**	**25,000**	**20,000**	**19,000**	NA	**19,000**	NA	**11,300**	**14,700**	**16,900**	**21,500**	**22,300**	**24,000**	**24,000**	**20,000**	**19,000**	NA	**20,000**	NA	**17,400**	**15,900**
Manganese	300	**1,350**	**2,320**	**1,940**	**1,300**	**500**	**350**	**400**	NA	**130**	NA	**423**	**684**	**414**	**492**	**505**	**430**	**700**	**400**	**400**	NA	**310**	NA	**459**	**319**
Nickel	100	**11.8 B**	**18.2 B**	**9.2**	ND	ND	ND	ND	NA	**2 J**	NA	**5.4 B**	**1.7 B**	**1.9 B**	**1.8 B**	ND	ND	ND	ND	ND	NA	**0.5 J**	NA	**7.0 B**	**0.72 B**
Potassium	NS	**4,420 BJ**	**4,720 B**	**3,120**	**3,400**	ND	ND	ND	NA	**2,800**	NA	**2,420 B**	**2,510 B**	**1,310 BJ**	**1,790 B**	**2,090**	**2,400**	ND	ND	ND	NA	**2,400**	NA	**2,800 B**	**1,850 B**
Selenium	10	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**12.4**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**11.8**	ND
Silver	50	**1.8 B**	ND	**6.2**	ND	ND	ND	ND	NA	ND	ND	**6.1 B**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**2.1 B**	ND
Sodium	20,000	**76,100 B**	**106,000**	**37,700**	**51,000**	**28,000**	**28,000**	**29,000**	NA	**29,000**	NA	**60,100**	**61,700**	**18,700 J**	**27,000**	**23,000**	**26,000**	**28,000**	**27,000**	**27,000**	NA	**36,000**	NA	**28,900**	**31,200**
Thallium	0.5 (GV)	ND	ND	4.8	ND	ND	ND	ND	NA	**0.4 J**	NA	**4.3 B**	ND	ND	ND	ND	ND	ND	ND	ND	NA	**0.9 J**	NA	ND	ND
Vanadium	NS	**3.9 B**	**5.4 B**	**6.6**	ND	**20 B**	ND	ND	NA	**2 J**	NA	**20.5 B**	**5.8 B**	**1.3 B**	**1.2 B**	ND	ND	ND	ND	ND	NA	**0.7 J**	NA	**8.4 B**	ND
Zinc	5,000 (GV)	**18.6 BJ**	**24.7**	**15.5**	ND	ND	ND	ND	NA	**15**	NA	**103**	**26**	**4.4 BJ**	**13.2 BJ**	**23.8**	**10**	ND	ND	ND	NA	ND	NA	**36.3**	**18.9 B**

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Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-5							MW-6											
Volatiles (µg/L)	**NYSAWQS***	**05/05/95**	**08/08/95**	**05/02/00**	**10/10/00**	**09/09/03***	**03/03/04***	**08/18/04**	**05/15/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/02/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**
Acetone	50	ND	ND	64	ND	ND	NA	13	9 J	12	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Benzene	1	ND	ND	8 J	16	10	NA	8	13	14	2	4	ND	4 J	6 J	3 J	NA	3 J	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chlorobenzene	5	ND	ND	4 J	ND	2 J	NA	2 J	24	29	24	34	36	52	54	34	NA	55	17	23
Chloroethane	5	ND	ND	ND	ND	ND	NA	ND	ND	2	4	ND	ND	ND	ND	ND	NA	3 J	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	34	77	ND	NA	11	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,2 -Dichloroethene (Total)	5	3400	5000	19,063 D	25,000 ED	2,600 D	NA	1,900 D	ND	ND	ND	ND	ND	3 J	ND	ND	NA	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	ND	NA	ND	5	ND	3	3	2 J	3 J	ND	ND	NA	ND	ND	ND
Ethylbenzene	5	47	48 J	29	27	45	NA	24	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	12	ND	NA	4 JB	ND	ND	ND	ND	ND	ND	ND	ND	NA	2 BJ	ND	ND
Toluene	5	54	ND	37	44	34	NA	27	3	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Xylene (total)	5	140	190 J	95	95	161	NA	120	68	40	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl Chloride	2	5,000	6,200	7,700 D	25,000 ED	8500 D	NA	2100 D	7	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total VOCs		8,641	11,438	27,034	50,271	11,352	NA	4,209	129	97	33	41	38	62	60	37	NA	63	17	23
PCBs (µg/L)																				
Aroclor-1221	0.09	ND	ND	ND	NA	NA	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	ND	ND	0.43
Aroclor-1242		ND	ND	ND	NA	NA	NA	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA	3.3	ND	ND
Metals (µg/L)																				
Aluminum	NS	6,000	1870 J	5,200	630	NA	760	NA	2,020	9,120 J	261	420	210	110 B	260	NA	96	NA	545	31.4 B
Antimony	3	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	0.4 J	NA	ND	ND
Arsenic	25	13.2	17.7	17	ND	NA	29	32	18.5	31	17.7	40	10	ND	ND	NA	16	29.6	10.9	17.5
Barium	1000	262	188 B	350	400	NA	640	650	368	516	210	160	ND	ND	ND	NA	90 J	420	51.6 B	53.2 B
Beryllium	3	0.2 B	0.09 B	ND	ND	NA	ND	NA	0.06 B	0.29 B	ND	ND	ND	ND	ND	NA	ND	NA	ND	0.036 B
Cadmium	5	ND	1.4 B	ND	ND	NA	ND	ND	ND	1.2 B	2.2	18	ND	ND	ND	NA	ND	NA	0.70 B	0.73 B
Calcium	NS	150,000	145,000	230,000	170,000	NA	150,000	NA	103,000	117,000	111,000	80,000	110,000	100,000	110,000	NA	120,000	NA	67,800	76,100
Chromium	50	9 B	3.6 B	ND	ND	NA	3 J	2	5.1 B	45.3	1.7	ND	ND	ND	ND	NA	1 J	ND	ND	ND
Cobalt	NS	25.3 B	24.9 B	ND	ND	NA	27	NA	26.4 B	37.6	22.8	ND	ND	ND	ND	NA	35	NA	32.4 B	24.8 B
Copper	200	10.4 B	7.9 B	ND	ND	NA	4 J	NA	6.3 B	27.9	ND	ND	ND	ND	ND	NA	3 J	NA	ND	2.4 B
Cyanide	200	ND	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	82,500	66,200	130,000	95,000	NA	95,000	ND	37,400	63,700	49,300	80,000	84,000	97,000	100,000	NA	130,000	NA	135,000	120,000
Lead	25	ND	ND	10	6.9	NA	1 J	NA	2.2	11.3	8.1	ND	ND	5.3	ND	NA	0.7 J	NA	2.3 B	ND
Magnesium	35,000 (GV)	54,900	51,700	77,000	59,000	NA	63,000	NA	40,700	46,700	45,000	28,000	51,000	38,000	36,000	NA	36,000	NA	17,200	16,500
Manganese	300	2850	1880	3,500	2,400	NA	1,100	NA	651	499	1,930	2,300	2,300	5,400	2,400	NA	5,000	NA	4,360	2,610
Nickel	100	20.6 B	19.9	ND	ND	NA	32	NA	33.1 B	45.7	31	ND	ND	ND	ND	NA	6.9	NA	5.6 B	3.1 B
Potassium	NS	6,850 B	4,940	12,000	29,000	NA	20,000	NA	66,300 J	65,200	26,900	23,000	27,000	21,000	20,000	NA	15,000	NA	5,800	6,950
Selenium	10	ND	ND	ND	ND	NA	3	NA	ND	ND	ND	ND	ND	ND	ND	NA	3	NA	29.8	3.4 B
Silver	50	ND	ND	ND	ND	NA	ND	NA	ND	ND	8.3	ND	ND	ND	ND	NA	1.7	NA	ND	ND
Sodium	20,000	110,000 J	137,000	230,000	230,000	NA	320,000	NA	199,000	283,000	71,100	100,000	84,000	37,000	36,000	NA	9,800	NA	3,370 B	17,700
Thallium	0.5 (GV)	ND	ND	ND	ND	NA	2 J	NA	ND	ND	ND	ND	ND	ND	ND	NA	0.8 J	NA	28.7	ND
Vanadium	NS	17.8 B	9.5 B	49 B	ND	NA	7	NA	9.9 B	26.1 B	3.2	19	21 B	ND	ND	NA	1 J	NA	0.80 B	1.6 B
Zinc	5,000 (GV)	101 J	34.4 J	24	81	NA	10	NA	55.1 J	65.4 J	8	16	ND	ND	ND	NA	11	NA	22	18.4 B

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GROUNDWATER ANALYTICAL RESULTS (1995-2008)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-6A												MW-6B										
Volatiles (µg/L)	**NYSAWQS***	**05/15/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/02/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**	**05/17/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/02/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**
Acetone	50	ND	**4**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**5 J**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Benzene	1	ND	ND	ND	**2**	ND	ND	ND	ND	NA	**1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Bromodichloromethane	50	**6 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	**1**	**10 J**	**11**	**9 J**	**11**	NA	**10**	**6 J**	**5.2 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	**3 J**	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroform	7	**30**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,2 -Dichloroethene (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**4.6 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	**3 J**	**5 J**	ND	**5 J**	NA	ND	ND	**2.3 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	**3 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**4 BJ**	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**30**	ND	**8**	ND	ND	ND	ND	NA	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**7.2 J**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total VOCs		**36**	**4**	ND	**3**	**13**	**16**	**9**	**16**	NA	**17**	**8**	**19.3**	**35**	ND	**8**	ND	ND	ND	ND	NA	**4**	ND	ND
PCBs (µg/L)																								
Aroclor-1221	0.09	ND	NA	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	ND	ND	ND
Aroclor-1242		ND	NA	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	ND	ND	ND
Metals (µg/L)																								
Aluminum	NS	**293**	**132**	**209**	**200**	ND	ND	ND	NA	**220**	NA	**99.6 B**	ND	**8,330**	**19,800 J**	ND	**920**	**9,400**	**5,600**	NA	**26,000**	NA	**116,000**	**1,720**
Antimony	3	ND	ND	ND	ND	ND	ND	ND	NA	**7.1**	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	**1 J**	NA	ND	**3.6 B**
Arsenic	25	ND	ND	ND	ND	**13**	ND	**21**	NA	**19**	**20**	**16.3**	**17**	**9.3 B**	**12.6**	**6**	ND	ND	ND	NA	**7**	**16.4**	**30.3**	**10 B**
Barium	1000	**27.8 B**	**93.2**	**127**	**160**	**200**	**260**	**290**	NA	**320**	**291**	**224**	**184 B**	**86.5 B**	**204**	**491**	ND	ND	ND	NA	**250**	**233**	**965**	**54.8 B**
Beryllium	3	ND	ND	ND	ND	ND	ND	ND	NA	**0.3 J**	NA	ND	ND	**0.36 B**	**0.98 B**	ND	ND	ND	ND	NA	**1**	NA	**6.3**	**0.26 B**
Cadmium	5	**1.8 B**	**0.32**	ND	ND	ND	ND	ND	NA	ND	ND	**0.69 B**	**0.17 B**	ND	ND	**83.4**	ND	**8**	ND	NA	**16**	**4.8**	**679**	**39.3**
Calcium	NS	**49,000**	**126,000**	**108,000**	**110,000**	**140,000**	**140,000**	**140,000**	NA	**150,000**	NA	**115,000**	**106,000**	**31,100**	**28,700**	**ND**	**9,800**	**91,000**	**58,000**	NA	**90,000**	NA	**326,000**	**31,800**
Chromium	50	**0.95 B**	ND	**0.96**	ND	ND	ND	ND	NA	**3 J**	ND	ND	ND	**10.8**	**25.5**	**52.4**	ND	**17**	**12**	NA	**62**	**70.4**	**189**	**2.7 B**
Cobalt	NS	**1.1 B**	**4.9**	**5.5**	ND	ND	ND	ND	NA	**18**	NA	**12.5 B**	**5.8 B**	**5.1 B**	**11.7 B**	**34**	ND	ND	ND	NA	**20**	NA	**85.3**	**4.3 B**
Copper	200	**20.8 B**	**17.3**	**5.4**	ND	ND	ND	ND	NA	**8.2**	NA	**11.8 B**	**3.5 B**	**11 B**	**31**	**115**	ND	**23 B**	ND	NA	**39**	NA	**182**	**21.8 B**
Cyanide	200	ND	NA	**2.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	**1.9**	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	**404**	**428**	**388**	**2,600**	**35,000**	**35,000**	**49,000**	NA	**54,000**	NA	**33,100**	**27,400**	**8,130**	**19,900**	**49,000**	**1,200**	**17,000**	**9,100**	NA	**38,000**	NA	**157,000**	**3,160**
Lead	25	ND	ND	**12.5**	ND	ND	ND	ND	NA	**1 J**	ND	ND	ND	**1.9 B**	**6.6**	**37**	ND	**7**	**7**	NA	**15**	**12.9**	**64.3**	**3.0 B**
Magnesium	35,000 (GV)	**10,100**	**40,900**	**48,100**	**42,000**	**60,000**	**51,000**	**50,000**	NA	**54,000**	NA	**43,500**	**40,600**	**4,610 B**	**8,950**	**25,100**	**1,800**	**15,000**	**7,300**	NA	**18,000**	NA	**69,600**	**4,070 B**
Manganese	300	**214**	**4,910**	**2,410**	**3,200**	**5,200**	**5,900**	**4,100**	NA	**3,800**	NA	**2,620**	**2,320**	**213**	**419**	**1,600**	**60**	**640**	**420**	NA	**880**	NA	**3,820**	**280**
Nickel	100	**3.1 B**	**8.3**	**23.5**	ND	ND	ND	ND	NA	**33**	NA	**26.7 B**	**19.1 B**	**11 B**	**28.7 B**	**79.5**	ND	ND	ND	NA	**63**	NA	**219**	**9.4 B**
Potassium	NS	**2,940 BJ**	**2,830**	**3,740**	**6,200**	**11,000**	**11,000**	**12,000**	NA	**12,000**	NA	**10,400**	**9,530**	**3,590**	**7,230**	**8,350**	ND	ND	ND	NA	**5,000**	NA	**21,200**	**868 B**
Selenium	10	ND	ND	ND	ND	ND	ND	ND	NA	**4.9**	ND	**10.2**	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**14.9**	ND
Silver	50	ND	ND	**1.3**	ND	ND	ND	ND	NA	**1.2**	ND	**4.4 B**	ND	ND	ND	**7.1**	ND	ND	ND	NA	**0.64**	ND	ND	ND
Sodium	20,000	**31,700**	**36,600**	**90,300**	**87,000**	**130,000**	**120,000**	**120,000**	NA	**140,000**	NA	**96,900**	**76,000**	**44,600**	**44,700**	**42,700**	**39,000**	**47,000**	**45,000**	NA	**50,000**	NA	**54,800**	**46,400**
Thallium	0.5 (GV)	ND	ND	ND	ND	ND	ND	ND	NA	**2 J**	NA	**7.9 B**	ND	ND	ND	ND	ND	ND	ND	NA	**0.07 J**	NA	**23.8**	ND
Vanadium	NS	**1.4 B**	**1.5**	ND	ND	ND	ND	ND	NA	**2 J**	NA	ND	ND	**20.8 B**	**39.7 B**	ND	ND	**27 B**	ND	NA	**43**	NA	**206**	**4.8 B**
Zinc	5,000 (GV)	**132 J**	**40.8**	**15.9**	**66**	ND	ND	ND	NA	**40**	NA	**26.7**	**12.0 B**	**37.3 J**	**72.7 J**	**193**	**130**	**150**	**46**	NA	**200**	NA	**735**	**71.6**

Notes:

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ND - Compound not detected at or above the detection limit.

J - Estimated concentration less than the contract required detection limits.

D - Analysis performed on a diluted sample

E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis

* New York State Ambient Water Quality Standards (TOGs 1.1.1) GV - guidance value.

BOLD font in shaded cell indicates exceedances of AWQS+GV.

NA - Not Analyzed

NS - No Standard or Guidance Value

*Exact sample date is unknown. Sample date may have been May 2003, 09/09/03 or 03/03/04.

Table 2
GROUNDWATER ANALYTICAL RESULTS (1995-2008)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-7												MW-8									
Volatiles (µg/L)	**NYSAWQS***	**05/15/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/02/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**	**05/16/95**	**08/09/95**	**05/05/99**	**10/21/99**	**05/02/00**	**10/10/00**	**05/08/02**	**08/18/04**	**07/11/07**	**10/28/08**
Acetone	50	ND	ND	ND	ND	ND	ND	ND	ND	NA	**6 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	**3 J**	ND	**5**	ND	ND	ND	ND	ND	NA	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 -Dichloroethene (Total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	**3 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4 JB**	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs		**3**	ND	**5**	ND	ND	ND	ND	ND		**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	ND	ND
PCBs (µg/L)																							
Aroclor-1221	0.09	ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND
Aroclor-1242		ND	ND	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND
Metals (µg/L)																							
Aluminum	NS	**24,500**	**32,600 J**	**176**	**190**	**3,700**	ND	**1,000**	NA	**20 J**	NA	**217**	**15.3 B**	**185**	**355 J**	**841**	**430**	**820**	**190 B**	**1,300**	NA	**16,500**	**139 B**
Antimony	3	ND	ND	**1.9**	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Arsenic	25	ND	**7.4 B**	ND	ND	ND	ND	ND	NA	**2 J**	**5.7**	ND	**7.0 B**	ND	ND	ND	ND	ND	ND	ND	ND	**7.2 B**	**3.5 B**
Barium	1000	**129 B**	**171 B**	**27.9**	ND	ND	ND	ND	NA	**60 J**	**56**	**34.5 B**	**22.3 B**	**41.7 B**	**38.9 B**	**28.1**	ND	ND	ND	ND	**32.1**	**147 B**	**22.2 B**
Beryllium	3	**0.8 B**	**1.2 B**	ND	ND	ND	ND	ND	NA	ND	NA	ND	**0.034 B**	ND	ND	ND	ND	ND	ND	ND	NA	**0.92 B**	**0.065 B**
Cadmium	5	**0.21 B**	**0.66 B**	**0.45**	**24**	ND	ND	ND	NA	ND	ND	**1.4 B**	**0.90 B**	ND	ND	ND	ND	ND	ND	ND	**0.68**	ND	**0.36 B**
Calcium	NS	**60,900**	**56,300**	**89,900**	**92,000**	**100,000**	**74,000**	**160,000**	NA	**140,000**	NA	**76,000**	**56,900**	**44,300**	**37,600**	**35,100**	**43,000**	**53,000**	**57,000**	**67,000**	NA	**55,400**	**50,500**
Chromium	50	**18.6**	**25.4**	**1.8**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	**2.4**	ND	ND	ND	ND	**2.7**	**19.3**	**0.71 B**
Cobalt	NS	**11.1 B**	**12.5 B**	**16.5**	ND	ND	ND	ND	NA	**26**	NA	**138**	**21.7 B**	ND	ND	ND	ND	ND	ND	ND	NA	**9.5 B**	**0.40 B**
Copper	200	**16.7 B**	**29.5**	**1.4**	ND	ND	ND	ND	NA	ND	NA	ND	**1.7 B**	**1.7 B**	**7.3 B**	**24.3**	ND	ND	ND	ND	NA	**10.7 B**	**8.1 B**
Cyanide	200	ND	NA	**3.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	**2.2**	NA	NA	NA	NA	NA	NA	NA
Iron	300	**23,600**	**30,800**	**8,060**	**2,200**	**17,000**	**23,000**	**27,000**	NA	**240,000**	NA	**217,000**	**143,000**	**195**	**362**	**873**	**460**	**1,400**	**290**	**2,300**	NA	**19,900**	**250**
Lead	25	**7.4**	**13.4**	**10.6**	ND	ND	ND	**7.1**	NA	ND	**3.5**	**4.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.4**	**1.1 B**
Magnesium	35,000 (GV)	**16,400**	**17,800**	**26,000**	**24,000**	**32,000**	**19,000**	**39,000**	NA	**29,000**	NA	**16,600**	**14,200**	**7,090**	**6,390**	**8,410**	**8,800**	**13,000**	**13,000**	**14,000**	NA	**15,700**	**12,100**
Manganese	300	**1,080**	**1,000**	**4,040**	**4,900**	**15,000**	**17,000**	**38,000**	NA	**31,000**	NA	**12,600**	**7,800**	**191**	**178**	**382**	**130**	**74**	**150**	**73**	NA	**267**	**71.5**
Nickel	100	**16.8 B**	**20.9 B**	**11.8**	ND	ND	ND	ND	NA	**2 J**	NA	**49.2**	**3.1 B**	ND	ND	ND	ND	ND	ND	ND	NA	**17.6 B**	**1.2 B**
Potassium	NS	**2,540 BJ**	**3,410 B**	**896**	ND	ND	ND	ND	NA	**5,100**	NA	**2,390 B**	**1,650 B**	**1,260 BJ**	**1,490 B**	**1,140**	ND	ND	ND	ND	NA	**3,990 B**	**797 B**
Selenium	10	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	**34.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.5**	ND
Silver	50	ND	ND	**4.8**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	**4,830 BJ**	**4,650 B**	**6,260**	**8,400**	**8,900**	**7,300**	**12,000**	NA	**4,100**	NA	**3,490 B**	**3,460 B**	**8,600 J**	**7,320**	**7,360**	**8,500**	**9,600**	**8,700**	**10,000**	NA	**12,000**	**13,300**
Thallium	0.5 (GV)	ND	**5 B**	**5.5**	ND	ND	ND	ND	NA	ND	NA	**63.3**	**6.4 B**	ND	ND	**3.1**	ND	ND	ND	ND	NA	ND	ND
Vanadium	NS	**34.6 B**	**49.1 B**	**2.8**	ND	**22 B**	ND	ND	NA	**2 J**	NA	ND	ND	**1.3 B**	**2.3 B**	**2.9**	ND	ND	ND	ND	NA	**28.4 B**	**0.61 B**
Zinc	5,000 (GV)	**85.9 J**	**95.4 J**	**19.8**	**24**	ND	**43**	**31**	NA	**4 J**	NA	**150**	**17.2 B**	**14.1 BJ**	**10.2 BJ**	**23.1**	ND	ND	ND	**26**	NA	**115**	**72.9**

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Table 2
GROUNDWATER ANALYTICAL RESULTS (1995-2008)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

		MW-NEW									
Volatiles (µg/L)	**NYSAWQS***	**5/5/1999**	**10/21/99**	**05/02/00**	**10/10/00**	**05/08/02**	**09/09/03***	**03/03/04***	**08/18/04**	**07/11/07**	**10/27/08**
Acetone	50	**6**	ND	ND	ND	ND	ND	NA	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,2 -Dichloroethene (Total)	5	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 3 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 4 -Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Methylene Chloride	5	**1 J**	ND	ND	ND	ND	ND	NA	**4 JB**	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1, 2, 4 -Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Total VOCs		**7**	ND	ND	ND	ND	ND		**4**	ND	ND
PCBs (µg/L)											
Aroclor-1221	0.09	NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
Aroclor-1242		NA	ND	ND	NA	NA	NA	NA	NA	ND	ND
Metals (µg/L)											
Aluminum	NS	**896**	**630**	**1,300**	**300**	**240**	NA	**2,200**	NA	**800**	ND
Antimony	3	ND	ND	ND	ND	ND	NA	ND	NA	**5.2 B**	ND
Arsenic	25	ND	ND	ND	ND	ND	NA	**35**	ND	ND	ND
Barium	1000	**60 B**	ND	ND	ND	ND	NA	**110**	**62.4**	**69.8 B**	**62.1 B**
Beryllium	3	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND
Cadmium	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Calcium	NS	**64,000**	**64,000**	**63,000**	**67,000**	**69,000**	NA	**83,000**	NA	**74,300**	**76,200**
Chromium	50	**3.5 B**	ND	ND	ND	ND	NA	**14**	**0.67**	**1.3 B**	**0.40 B**
Cobalt	NS	ND	ND	ND	ND	ND	NA	**2 J**	NA	**1.4 B**	ND
Copper	200	**27.5 B**	ND	ND	ND	ND	NA	**6.4**	NA	**2.5 B**	**4.4 B**
Cyanide	200	**1.2 B**	ND	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	**946**	**560**	**2,000**	**260**	**390**	NA	**5,300**	NA	**1,590**	**213**
Lead	25	**3.6**	ND	ND	ND	ND	NA	**13**	**3.3**	ND	ND
Magnesium	35,000 (GV)	**128,000**	**110,000**	**140,000**	**130,000**	**150,000**	NA	**180,000**	NA	**153,000**	**160,000**
Manganese	300	**51.6**	**46**	**120**	**42**	**42**	NA	**82**	NA	**66.3**	**30.7**
Nickel	100	ND	ND	ND	ND	ND	NA	**6.3**	NA	**3.8 B**	**2.0 B**
Potassium	NS	**3180**	**2,000**	ND	ND	ND	NA	**2,200**	NA	**2,230 B**	**2,460 B**
Selenium	10	ND	ND	ND	ND	ND	NA	ND	ND	**10.2**	ND
Silver	50	ND	ND	ND	ND	ND	NA	ND	ND	**8.6 B**	ND
Sodium	20,000	**196,000**	**170,000**	**200,000**	**200,000**	**210,000**	NA	**240,000**	NA	**197,000**	**193,000**
Thallium	0.5 (GV)	ND	ND	ND	ND	ND	NA	**2 J**	NA	ND	ND
Vanadium	NS	ND	ND	**24 B**	ND	ND	NA	**13**	NA	**1.6 B**	ND
Zinc	5,000 (GV)	**8.3 B**	ND	ND	ND	ND	NA	**18**	NA	**17.9 B**	**10.5 B**

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J - Estimated concentration less than the contract required detection limits.

D - Analysis performed on a diluted sample

E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis

* New York State Ambient Water Quality Standards (TOGs 1.1.1) GV - guidance value.

BOLD font in shaded cell indicates exceedances of AWQS+GV.

NA - Not Analyzed

NS - No Standard or Guidance Value

*Exact sample date is unknown. Sample date may have been May 2003, 09/09/03 or 03/03/04.

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 1998													INFLUENT - 1999									
		9/22/98	9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	11/4/98	11/11/98	11/19/98	11/24/98	12/3/98	12/16/98	12/30/98	1/6/99	1/21/99	2/1/99	2/10/99	2/23/99	3/3/99	3/11/99	3/18/99	3/24/99	4/8/99
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	4 J	1 J	1 J	ND	ND	ND	ND	ND	ND	ND	ND	5 J	ND	ND	5 J
Bromomethane	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	3 J	3 J	3 J	3 J	2 J	1 J	2 J	2 J	2 J	ND	2 J	2 J	ND	2	ND	ND	1 J	ND	ND	ND	ND	ND	4 J
1,2-Dichloroethene (total)	µg/L	ND	ND	3 J	ND	ND	ND	ND	ND	3 J	2 J	3 J	ND	ND	ND	ND	2 J	ND	ND	2 J	9	ND	2 J	4 J
Acetone	µg/L	11	ND	ND	7 J	51	50	ND	27	ND	ND	41	16	ND	ND	ND	ND	42	ND	22	ND	17	ND	ND
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	220 E	170	430 E	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	2 JB	3 JB	2 JB	3 JB	2 JB	ND	6 B	2 J	7 B	2 J	1 JB	4 JB	2 J	4 JB	3 JB	ND	ND	ND	1	1 JB	ND
Methyl t-butyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	12	ND	11	ND	ND	ND	11	ND	12	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2 J	NA
Chloroform	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	6	ND	3 J	6	12	ND
Benzene	µg/L	ND	1 J	1 J	1 J	ND	1 J	3 J	3 J	2 J	2 J	3 J	1 J	ND	1	ND	2 J	ND	ND	ND	4 J	ND	2 J	2 J
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	13	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	3 J	2 J	1 J	2 J	2 J	ND	2 J	ND	2 J	2 J	2 J	2 J	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	8	ND	ND	ND	3 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	1 J	1 J	1 J	2 J	1 J	2 J	2 J	1 J	ND	1	2	ND	ND	ND	ND	2 J	ND	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	ND	1 J
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	4 J	5	4 J	4 J	6	ND	ND	ND	ND	4 J	ND	1 J	2 J	8	ND	1 J	5 J
Styrene	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total VOCs	µg/L	17	6	16	16	58	56	22	259	207	468	85	26	19	10	4	12	63	7	38	33	25	20	21
Aluminum	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	106	139	93.5	87.7	62.8	114	52.9	65.4	116 B
Beryllium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	ND	ND	ND	ND	ND	ND	ND	1.1 B
Calcium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	11 B
Copper	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.4	17.5	19.8	13.8	18.1	14.2	13.8	16.2	ND
Iron	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33,300	38,100	26,000	23,500	924	29,400	2,670	5,380	38,600
Lead	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	ND	ND	ND	5.4	4.3	6.6	ND	16
Magnesium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.321	ND	ND	ND	ND	ND	ND	ND
Nickel	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	4.6 B
Potassium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	2.6 B
Zinc	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.6	16.3	16.6	40.6	13.2	ND	72.2	136	5.5 B

NOTES:
Data are shown only for individual detected VOCs, and for metals subject to effluent limitations.
Analysis by EPA Method OLM 4.3 for volatile organics, and ILM 4.1 (+ mercury) for metals.
D - Analysis performed on diluted sample.
J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
*Possible human error (may be Value x 1,000)

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 1999 cont.																			
		4/14/99	4/21/99	4/28/99	5/5/99	5/12/99	5/20/99	5/25/99	6/10/99	6/16/99	6/23/99	6/30/99	7/7/99	7/14/99	7/22/99	7/28/99	8/18/99	9/23/99	10/20/99	11/16/99	12/15/99
Vinyl Chloride	µg/L	ND	4 J	1 J	19	8 J	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	110	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	ND
Chloroethane	µg/L	ND	2 J	3 J	1 J	2 J	2 J	2 J	3 J	NA	NA	NA	NA	3 J	NA	NA	3 J	NA	3 J	3 BJ	2 J
1,2-Dichloroethene (total)	µg/L	8 J	5 J	2 J	22	6 J	ND	2 J	3 J	NA	NA	NA	NA	0.7 J	NA	NA	1 J	NA	58	3 BJ	2 J
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	3 BJ	NA	NA	ND	NA	ND	ND	ND
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	0.3 BJ	NA	NA	0.3 BJ	NA	0.3 BJ	0.4 BJ	0.3 BJ
Methyl t-butyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	0.6 J	NA	NA	NA	NA	0.6 J	NA	NA	0.6 J	NA	0.6 J	ND	0.5 J
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	4 BJ	NA	NA	ND	NA	ND	ND	7 J
Bromodichloromethane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	ND
Benzene	µg/L	4 J	4 J	2 J	8 J	2 J	ND	1 J	4 J	NA	NA	NA	NA	4 J	NA	NA	0.8 J	NA	3 J	2 BJ	0.9 J
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	ND
Trichloroethene	µg/L	ND	ND	2 J	ND	2 J	ND	2 J	2 J	NA	NA	NA	NA	0.6 J	NA	NA	2 J	NA	0.7 J	2 BJ	1 J
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	ND
Toluene	µg/L	9 J	4 J	2 J	14	1 J	ND	ND	0.6 J	NA	NA	NA	NA	0.1 J	NA	NA	0.1 J	NA	0.5 J	0.5 BJ	0.2 BJ
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	ND
Chlorobenzene	µg/L	2 J	2 J	ND	4 J	2 J	1 J	ND	1 J	NA	NA	NA	NA	2 J	NA	NA	1 J	NA	3 J	2 BJ	1 BJ
Ethylbenzene	µg/L	2 J	1 J	ND	7 J	1 J	ND	ND	5 BJ	NA	NA	NA	NA	0.8 J	NA	NA	0.9 J	NA	0.8 J	0.4 BJ	0.07 BJ
Xylene (total)	µg/L	13	7 J	3 J	33	4 J	ND	ND	5 BJ	NA	NA	NA	NA	5 J	NA	NA	0.4 BJ	NA	7 J	3 BJ	0.3 BJ
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	0.2 J	NA	NA	NA	NA	ND	NA	NA	ND	NA	0.07 J	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	NA	ND	ND	ND
Isopropylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total VOCs	µg/L	38	29	15	108	28	3	7	24.4					24.1			10.1		186.97	16.3	15.27
Aluminum	µg/L	NA	ND	31.5 B	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	48	ND	ND	ND
Antimony	µg/L	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Arsenic	µg/L	ND	8.8 B	6.3 B	13.9	16.2	9.3 B	4.2 B	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Barium	µg/L	122 B	139 B	117 B	202	196 B	114 B	117 B	82	NA	NA	NA	NA	94	NA	NA	86	239	98	99	95
Beryllium	µg/L	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Cadmium	µg/L	0.8 B	1.1 B	0.8 B	2.9 B	3.1 B	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Calcium	µg/L	NA	130,000	113,000	124,000	120,000	116000	116000	116*	NA	NA	NA	NA	113*	NA	NA	112*	126*	115,000	120,000	114,000
Chromium	µg/L	0.96 B	1.9 B	2.9 B	2.2 B	3.8 B	ND	1.4 B	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Cobalt	µg/L	11 B	13.7 B	14.6 B	16.6 B	16.5 B	11.1 B	10.9 B	5	NA	NA	NA	NA	8	NA	NA	9	8	7	9	7
Copper	µg/L	ND	ND	0.89 B	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Iron	µg/L	29,500	34,800	20,000	46,900	53,800	35,900	34,900	23,100	NA	NA	NA	NA	32,900	NA	NA	32,700	105,000	30,600	35,300	34,200
Lead	µg/L	7.4	9.1	8.1	8.9	10.9	7.4 B	9.8 B	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Magnesium	µg/L	NA	38,400	35,100	41,300	37,600	33,600	36,000	32.2	NA	NA	NA	NA	30.8	NA	NA	31.7	30.4	31,000	34,100	31,100
Manganese	µg/L	NA	3,550	3,290	2,830	3,120	3,480	3,460	3,000	NA	NA	NA	NA	3,030	NA	NA	3,060	3,230	2,890	2,890	2,840
Mercury	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Nickel	µg/L	6.8 B	10.6 B	10 B	13.1 B	12.4 B	5.4 B	5.9 B	5	NA	NA	NA	NA	5	NA	NA	5	12	7	5	ND
Potassium	µg/L	NA	9,750	6,920	18,800	15,400	6,090	5,780	5.8	NA	NA	NA	NA	5.8	NA	NA	5.3	6.4	6,600	5,600	6,300
Selenium	µg/L	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Silver	µg/L	NA	4.5 B	6.2 B	6.3 B	7.6 B	4.2 B	1.8 B	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Sodium	µg/L	NA	68,600	57,200	91,700	79,900	59,900	59,100	56.8	NA	NA	NA	NA	54.1	NA	NA	54.9	63.4	54,200	55,700	56,700
Thallium	µg/L	NA	ND	ND	3.3 B	3.1 B	3.3 B	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Vanadium	µg/L	ND	2.8 B	4.5 B	8 B	9.1 B	2 B	ND	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	ND	ND	ND
Zinc	µg/L	58.4	47	15.8 B	27.3	45.7	27.2 B	31.6 B	48	NA	NA	NA	NA	33	NA	NA	28	47	ND	ND	15

NOTES:
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J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
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*Possible human error (may be Value x 1,000)

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 2000												INFLUENT - 2001											
		1/12/00	2/22/00	3/28/00	4/11/00	5/10/00	6/14/00	7/15/00	8/16/00	9/20/00	10/11/00	11/7/00	12/13/00	1/10/01	2/14/01	3/13/01	4/11/01	5/9/01	6/13/01	7/11/01	8/15/01	9/10/01	10/10/01	11/14/01	12/12/01
Vinyl Chloride	µg/L	ND	2 J	ND	ND	ND	ND	NA	ND	ND	5 J	10	9 J	80	54	54	ND	25	10	92	27	190	200 E	130	17
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	2 J	ND	ND	2 J	2 J	ND	NA	2 J	3 J	2 J	2 J	2 J	4 J	2 J	1 J	2 J	2 J	ND	1 J	2 J	1 J	ND	ND	2 J
1,2-Dichloroethene (total)	µg/L	8 J	ND	ND	5 J	2 J	0.8 J	NA	0.9 J	ND	6 J	13	9 J	24	54	38	5 J	20	7 J	77	14	192	233	142	15
Acetone	µg/L	ND	ND	ND	ND	ND	2 J	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 BJ	2 J	2 BJ	ND	3 BJ	ND	ND	ND
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	0.3 BJ	ND	ND	0.5 BJ	1 BJ	0.5 BJ	NA	0.3 BJ	0.3 BJ	0.2 BJ	0.4 BJ	0.3 BJ	0.6 BJ	0.3 BJ	0.2 BJ	0.6 BJ	0.3 BJ	0.2 BJ	0.3 BJ	0.3 BJ	0.3 BJ	0.3 BJ	1 BJ	0.4 BJ
Methyl t-butyl ether	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.7 J	1 J	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.3 J	0.4 J	ND	0.8 J	0.8 J	ND	ND	0.4 J	ND	0.7 J	0.4 J	0.7 J	0.8 J	ND	ND
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	0.9 J	ND	NA	ND	ND	0.3 J	0.8 J	0.6 J	1 BJ	ND	0.3 BJ	0.7 BJ	0.3 BJ	0.3 J	0.2 BJ	ND	ND	ND	0.5 BJ	ND
Benzene	µg/L	2 J	6 J	ND	2 J	ND	ND	NA	1 J	ND	1 J	2 J	ND	7 J	12	5 J	0.8 J	4 J	1 J	15	3 J	20	22	14 J	2 J
1,2-Dichloroethane	µg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	1 J	2 J	0.2 J	NA	0.2 J	ND	0.2 J	ND	ND	0.2 J	0.2 J	0.2 J	ND	0.1 J	0.2 J	ND	ND	ND	0.2 J	ND	ND
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	1	2 J	ND	0.6 J	0.06 J	0.09 BJ	NA	0.4 J	ND	ND	0.2 BJ	0.3 J	0.4 BJ	2 J	0.2 J	0.1 J	0.2 BJ	0.2 J	0.6 BJ	0.2 BJ	0.9 BJ	1 J	1 J	0.1 J
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 BJ
Chlorobenzene	µg/L	2	1 J	0.9 J	1 J	0.6 J	0.5 BJ	NA	0.6 J	1 J	1 BJ	2 BJ	2 J	6 J	4 J	3 J	1 J	4 J	1 BJ	4 J	2 J	15	18	11 J	2 J
Ethylbenzene	µg/L	0.7	2 J	ND	0.5 J	0.2 J	0.3 J	NA	0.5 BJ	0.07 J	0.5 BJ	1 BJ	0.5 BJ	2 BJ	4 J	0.9 J	0.7 J	0.8 BJ	0.3 BJ	4 BJ	0.4 BJ	3 BJ	3 J	3 J	0.2 BJ
Xylene (total)	µg/L	6	8 J	0.6 J	4 J	0.9 J	1 BJ	NA	2 BJ	0.7 J	5 BJ	7 BJ	5 BJ	14 B	21 B	14	0.9 J	8 BJ	1 BJ	31 B	7 BJ	31 B	53 B	36 BJ	4 BJ
Styrene	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.3 J	1 J	0.5 J	3 J	0.7 J	6 J	8 J	5 J	0.6 BJ
1,3-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.1 BJ	0.05 BJ	ND	0.06 BJ	0.4 BJ	0.4 BJ	0.4 BJ	0.3 BJ
1,4-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4 BJ	1 BJ	0.4 BJ	0.7 BJ	0.5 BJ	3 BJ	4 BJ	3 BJ	0.8 BJ
1,2-Dichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 BJ	0.2 BJ	0.07 BJ	0.2 BJ	0.09 BJ	0.5 BJ	0.6 BJ	0.5 BJ	0.2 BJ
1,2,4-Trichlorobenzene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.08 BJ	ND	0.2 BJ	ND	0.1 BJ	0.1 BJ	0.4 BJ	0.6 BJ
Total VOCs	µg/L	22	21	1.5	16.6	9.66	5.39	NA	7.9	5.07	21.5	38.8	28.7	140	154	117	13	67	22	230	58	454	572	348	45
Aluminum	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	32	ND	38	40	ND	ND	59	ND	ND	333	ND	ND	
Antimony	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	µg/L	ND	10	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	110	180	250	13	ND	ND	ND	12	15	ND	ND
Barium	µg/L	68	98	83	86	76	102	NA	69	60	84	97	104	108	198	356	76	95	230	150	121	339	465	211	101
Beryllium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	4	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	µg/L	106,000	117,000	107,000	114,000	114,000	108,000	NA	107,000	96,400	117,000	96,900	102,000	115,000	122,000	126,000	103,000	109,000	108,000	120,000	114,000	140,000	161,000	129,000	110,000
Chromium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	µg/L	7	7	7	5	8	7	NA	8	9	5	6	5	8	ND	ND	6	6	5	8	10	8	8	13	ND
Copper	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	µg/L	15,400	41,600	31,000	22,400	29,000	44,500	NA	33,300	29,500	36,200	34,000	38,400	223	140,000	247,000	11,700	35,200	69,000	33,500	53,100	47,000	48,700	39,000	20,200
Lead	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	µg/L	26,100	32,500	26,500	32,300	31,000	28,400	NA	27,100	24,300	29,700	26,100	26,400	34,200	33,700	32,200	25,000	27,600	26,000	36,100	29,600	51,700	58,100	44,300	29,000
Manganese	µg/L	2,740	2,340	2,880	2,700	3,060	2,820	NA	3,440	3,210	3,480	2,500	3,060	2,220	2,740	3,010	2,760	3,070	3,120	1,990	2,420	765	805	1,390	2,880
Mercury	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	µg/L	ND	10	ND	ND	ND	ND	NA	ND	ND	7	ND	ND	6	8	9	ND	5	5	10	ND	14	22	15	ND
Potassium	µg/L	5,500	10,900	4,900	7,100	4,500	7,900	NA	4,000	3,700	5,500	9,300	7,600	18,000	14,500	15,000	3,700	9,400	6,000	23,600	8,700	50,900	55,400	38,200	6,600
Selenium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	µg/L	51,300	70,500	52,000	51,000	46,500	52,000	NA	47,900	38,700	52,600	53,100	51,600	95,800	78,000	77,300	42,900	57,500	49,500	91,900	55,900	197,000	229,000	156,000	54,900
Thallium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	µg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	6	9	ND	ND	ND	ND	ND	6	ND	ND	ND
Zinc	µg/L	13	23	13	79	ND	ND	NA	41	13	11	28	69	22	37	40	ND	ND	100	28	ND	13	40	12	ND

NOTES:
Data are shown only for individual detected VOCs, and for metals subject to effluent limitations.
Analysis by EPA Method OLM 4.3 for volatile organics, and ILM 4.1 (+ mercury) for metals.
D - Analysis performed on diluted sample.
J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
*Possible human error (may be Value x 1,000)

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 2002											
		1/9/02	2/13/02	3/12/02	4/10/02	5/8/02	6/11/02	7/10/02	8/7/02	9/4/02	10/9/02	11/6/02	12/10/02
Vinyl Chloride	µg/L	67	40	28	ND	240 E	230 E	ND	ND	300	9 J	ND	43
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	2 J	2 J	2 J	ND	ND	ND	2 J	2 J	ND	2 J	2 J	1 J
1,2-Dichloroethene (total)	µg/L	70.9 J	32.7 J	9.3 JB	2 J	293 E	314 E	0.6 J	1 J	304	8 J	0.45 J	68
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	µg/L	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	2 BJ	0.2 BJ	ND	ND
Methylene Chloride	µg/L	0.4 BJ	0.5 BJ	0.3 BJ	ND	0.3 BJ	ND	ND	0.2 J	ND	0.2 BJ	0.4 BJ	0.3 BJ
Methyl t-butyl ether	µg/L	ND	ND	0.8 J	ND	1 J	ND	0.5 J	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	0.8 J	0.7 J	ND	0.5 J	ND	0.9 J	0.2 J	ND	ND	ND	0.3 J
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND
Benzene	µg/L	6 J	13	4 J	8 J	19	20	8 J	3 J	18 J	0.9 J	1 J	5 J
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	0.4 J	0.4 J	0.2 BJ	0.2 J	ND	0.7 BJ	0.4 BJ	0.2 J	0.8 J	0.1 BJ	0.1 BJ	0.2 BJ
Tetrachloroethene	µg/L	ND	ND	0.3 BJ	0.2 BJ	ND	ND	0.09 BJ	ND	0.6 BJ	0.1 BJ	ND	0.06 BJ
Chlorobenzene	µg/L	6 J	11	7 J	2 J	16	16 B	9 J	ND	14 J	1 J	0.8 J	3 J
Ethylbenzene	µg/L	1 BJ	3 BJ	0.8 BJ	2 BJ	2 BJ	2 J	1 BJ	0.5 BJ	2 J	0.1 BJ	0.08 BJ	0.5 BJ
Xylene (total)	µg/L	15 B	14 B	2 BJ	3 BJ	24 B	27	3 BJ	1 BJ	28 BJ	0.9 BJ	0.5 BJ	8 BJ
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	2 J	2 J	1 BJ	0.4 J	7 BJ	6 J	1 BJ	0.2 J	6 J	0.3 J	0.3 J	1 BJ
1,3-Dichlorobenzene	µg/L	0.2 BJ	0.3 BJ	0.6 BJ	0.2 BJ	0.6 BJ	0.6 J	0.2 BJ	0.08 BJ	ND	0.1 BJ	0.09 BJ	0.2 BJ
1,4-Dichlorobenzene	µg/L	2 BJ	4 BJ	3 BJ	0.8 BJ	4 BJ	3 J	2 BJ	0.2 BJ	2 BJ	0.4 BJ	0.3 BJ	1 BJ
1,2-Dichlorobenzene	µg/L	0.3 BJ	0.5 BJ	0.6 BJ	0.2 BJ	0.6 BJ	0.4 J	0.2 BJ	ND	ND	0.1 BJ	0.1 BJ	0.2 BJ
1,2,4-Trichlorobenzene	µg/L	0.2 BJ	0.2 BJ	1 BJ	0.9 BJ	0.8 BJ	0.4 J	0.09 BJ	ND	ND	0.3 BJ	0.08 BJ	ND
Total VOCs	µg/L	173.4	124.4	62	19.9	608.8	620.1	28.98	8.78	677.4	23.7	6.2	131.76
Aluminum	µg/L	ND	ND	ND	ND	ND	ND	109	55	ND	ND	290	ND
Antimony	µg/L	ND	6	ND	7	7	5	12	6	6	7	6	6
Arsenic	µg/L	ND	ND	ND	17	14	ND	102	17	ND	8	19	8
Barium	µg/L	147	259	180	334	379	371	413	133	424	90	120	110
Beryllium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	µg/L	100,000	121,000	103,000	120,000	139,000	156,000	110,000	103,000	130,000	86,000	110,000	96,000
Chromium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	µg/L	7	12	11	10	14	14	14	8	8	7	9	8
Copper	µg/L	ND	ND	ND	ND	ND	ND	10	ND	7	ND	14	ND
Iron	µg/L	39,300	21,300	31,600	57,500	53,500	20,600	96,900	41,600	37,300	35,600	53,000	36,000
Lead	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	µg/L	30,000	43,000	32,000	39,000	53,000	59,000	35,000	27,000	49,000	21,000	28,000	26,000
Manganese	µg/L	2,020	1,450	2,040	1,840	752	860	1,930	2,770	625	2,500	3,300	2,600
Mercury	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	µg/L	7	14	9	8	19	20	10	ND	18	ND	ND	ND
Potassium	µg/L	17,700	38,000	20,000	28,000	59,000	68,000	22,000	4,000	54,000	4,000	5,000	9,000
Selenium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	µg/L	85,700	158,000	107,000	118,000	205,000	223,000	113,000	47,000	185,000	38,000	49,000	59,000
Thallium	µg/L	ND	13	6	7	ND	12	ND	ND	ND	12	ND	9
Vanadium	µg/L	ND	ND	ND	9	9	ND	25	ND	ND	ND	ND	ND
Zinc	µg/L	17	32	21	31	19	9	69	40	38	62	51	5

NOTES:
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J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
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ND - Compound not detected at or above the detection limit.
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*Possible human error (may be Value x 1,000)

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 2003												INFLUENT - 2004					
		1/8/03	2/5/03	3/5/03	4/9/03	5/7/03	6/24/03	7/24/03	8/22/03	9/10/03	10/24/03	11/21/03	12/11/03	1/22/04	2/24/04	3/26/04	5/26/04	6/16/04	9/27/04
Vinyl Chloride	µg/L	30	5 J	ND	ND	100	11	4 J	ND	ND	ND	ND	ND	ND	ND	ND	50	ND	NA
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroethane	µg/L	1 J	2 J	2 J	1 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethene (total)	µg/L	60.8	1 J	ND	0.6 J	151	12	9 J	ND	ND	4 J	ND	ND	ND	ND	ND	22	ND	NA
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Carbon disulfide	µg/L	0.2 J	0.2 J	0.06 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Methylene Chloride	µg/L	0.4 BJ	0.2 BJ	0.2 BJ	0.2 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Methyl t-butyl ether	µg/L	ND	0.4 J	0.5 J	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,1-Dichloroethane	µg/L	ND	0.3 J	0.3 J	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	NA
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroform	µg/L	0.1 J	0.1 J	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	58	57	ND	ND	ND	NA
Benzene	µg/L	3 J	0.9 J	0.7 J	0.3 J	5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Trichloroethene	µg/L	ND	ND	0.3 J	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Toluene	µg/L	0.2 J	0.1 J	0.08 BJ	0.1 BJ	0.3 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Tetrachloroethene	µg/L	0.06 BJ	0.1 BJ	0.07 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chlorobenzene	µg/L	2 J	1 J	1 J	0.5 J	3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	µg/L	0.2 BJ	0.1 BJ	0.06 BJ	0.1 BJ	0.4 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Xylene (total)	µg/L	3 BJ	0.7 BJ	0.3 BJ	0.4 BJ	5 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Isopropylbenzene	µg/L	0.5 BJ	0.2 BJ	0.2 BJ	0.1 BJ	2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	0.1 BJ	0.1 BJ	0.09 BJ	0.2 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,4-Dichlorobenzene	µg/L	0.5 BJ	0.8 BJ	0.6 BJ	0.4 BJ	0.6 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichlorobenzene	µg/L	0.1 BJ	0.2 BJ	0.1 BJ	0.1 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2,4-Trichlorobenzene	µg/L	0.5 BJ	0.1 BJ	0.04 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total VOCs	µg/L	102.66	13.5	6.8	5.3	270.1	23	13	0	0	4	0	0	69	57	0	72	0	
Aluminum	µg/L	92	ND	ND	ND	NA	ND	110	115	29 B	97	85	58	110	120	NA	NA	NA	NA
Antimony	µg/L	10	10	8	7	7	ND	ND	ND	ND	ND	ND	5.8	ND	ND	NA	NA	NA	NA
Arsenic	µg/L	11	23	8	19	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND	NA	NA	NA	16
Barium	µg/L	160	140	92	89	120	77 B	466	43	30 B	70 BJ	60 BJ	90 BJ	20 BJ	30 BJ	NA	NA	NA	58.6
Beryllium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82	ND	ND	NA	NA	NA	NA
Cadmium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	0.48
Calcium	µg/L	110,000	98,000	100,000	99,000	110,000	118000	136,000	117,000	115,000	120,000	99,000	150,000	12,000	22,000	NA	NA	NA	NA
Chromium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 BJ	ND	2 BJ	2 BJ	2 BJ	NA	NA	NA	1.1
Cobalt	µg/L	9	9	8	7	8	ND	ND	ND	ND	7 BJ	6 BJ	9 BJ	2 BJ	6 BJ	NA	NA	NA	4.7
Copper	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 BJ	8.3	8.8	6.1	15	NA	NA	NA	0.52
Iron	µg/L	60,000	56,000	35,000	48,000	37,000	30,600	246,000	42,100	30,600	22,000	21,000	63,000	6,000	5,300	NA	NA	NA	38,400
Lead	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 BJ	0.6 BJ	1 BJ	1 BJ	2 BJ	NA	NA	NA	ND
Magnesium	µg/L	30,000	26,000	26,000	24,000	30,000	28,200	28,600	28,300	27,200	30,000	24,000	37,000	1,600	2,800	NA	NA	NA	NA
Manganese	µg/L	2,900	2,600	2,900	3,100	2,600	3,330	4,220	3,920	3,980	3,200	3,200	3,200	0.5 BJ	75	NA	NA	NA	NA
Mercury	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND
Nickel	µg/L	ND	6	ND	ND	5	ND	ND	ND	ND	4 BJ	4 BJ	5.5	1 BJ	4 BJ	NA	NA	NA	3.3
Potassium	µg/L	12,000	10,000	6,000	3,000	14,000	5880	3770 B	3560 B	3250 B	5,400	3,100	5,500	780	1200	NA	NA	NA	NA
Selenium	µg/L	ND	ND	ND	ND	ND	2 B	ND	ND	ND	ND	ND	4.9	ND	4.5	NA	NA	NA	NA
Silver	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	NA	NA	NA	NA
Sodium	µg/L	68,000	57,000	51,000	42,000	68,000	36,900	33,200	35,100	34,400	51,000	40,000	62,000	27,000	27,000	NA	NA	NA	NA
Thallium	µg/L	12	19	23	10	14	ND	ND	ND	ND	0.9 BJ	0.5 BJ	2 BJ	0.3 BJ	0.4 BJ	NA	NA	NA	NA
Vanadium	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 BJ	1 BJ	3 BJ	1 BJ	1 BJ	NA	NA	NA	0.91
Zinc	µg/L	9	14	7	10	6	ND	ND	ND	ND	9.2	10	55	26	76	NA	NA	NA	29.8

NOTES:
Data are shown only for individual detected VOCs, and for metals subject to effluent limitations.
Analysis by EPA Method OLM 4.3 for volatile organics, and ILM 4.1 (+ mercury) for metals.
D - Analysis performed on diluted sample.
J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
*Possible human error (may be Value x 1,000)

Table 3
INFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	INFLUENT - 2007					INFLUENT - 2008											INFLUENT - 2009					
		8/30/07	9/20/07	10/24/07	11/19/07	12/17/07	1/21/08	2/18/08	3/20/08	4/24/08	5/13/08	6/23/08	7/21/08	8/18/08	9/15/08	10/13/08	11/10/08	12/9/08	1/6/09	2/12/09	3/12/09	4/9/09	5/28/09	6/23/09
Vinyl Chloride	µg/L	210 D	43	170	ND	ND	510 D	ND	67	180	780 D	180 D	ND	65	42	19	100	17	150	26	56	120	28	22
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	190	85	313	ND	ND	697 D	ND	140	273.1 D	1011	240 D	5.9 J	32	18	32	120	20	150	46	87	172.4	48	30
Acetone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.1	ND
Methyl t-butyl ether	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	ND	ND	6 J	ND	ND	15	ND	3.8 J	3.7 J	23	3.4 J	ND	ND	ND	ND	2.5 J	ND	3.7 J	ND	2.2 J	4.7 J	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	ND	ND	7 J	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	4 J	ND	ND	10	ND	2.7 J	2.9 J	15	3.0 J	ND	ND	ND	ND	2.4 J	ND	2.6 J	ND	2.1 J	3.6 J	ND	ND
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	3 J	ND	ND	ND	3.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	µg/L	ND	ND	11	ND	ND	27	ND	5.1 J	4.9 J	3.9 J	4.9 J	ND	ND	ND	ND	2.7 J	ND	2.6 J	ND	ND	2.9 J	ND	ND
Styrene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	ND	ND	ND	ND	ND	4 J	ND	ND	ND	5.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	µg/L	400	128	511	0	0	1278	0	218.6	464.6	1841.7	431.3	5.9	97	60	51	227.6	37	308.9	72	147.3	303.6	82.1	52
Aluminum	µg/L	17 B	11.4 B	64.6 B	12.2 B	ND	18.4 B	197 B	ND	ND	ND	15 B	12.8 B	13.8 B	51.6 B	9.4 B	ND	20.2 B	89.5	ND	ND	ND	NA	NA
Antimony	µg/L	ND	ND	ND	ND	ND	ND	4 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3 B	ND	ND	NA	NA
Arsenic	µg/L	ND	5.1 B	105	ND	ND	ND	ND	8.1 B	ND	ND	4.6 B	4.0 B	5.3 B	4.0 B	4.2 B	4.0 B	2.9 B	89.5	8.3 B	ND	ND	ND	ND
Barium	µg/L	110 B	107 B	286	47.2 B	62.0 B	263	62.5 B	134 B	89.8 B	270	91.9 B	83.2 B	68.2 B	65.5 B	74.1 B	89.3 B	73.4 B	255	89.1 B	69.4 B	101 B	73	74
Beryllium	µg/L	ND	ND	0.17 B	ND	ND	ND	ND	ND	ND	0.041 B	ND	0.034B	0.040 B	ND	ND	ND	ND	ND	ND	0.21 B	ND	NA	NA
Cadmium	µg/L	ND	ND	0.61 B	ND	0.23 B	ND	0.53 B	ND	ND	ND	0.24 B	ND	ND	ND	ND	ND	0.27 B	2.1 B	ND	0.35 B	0.27 B	ND	NA
Calcium	µg/L	98,800	103,000	117,000	86,200	88,900	135,000	87,500	104,000	102,000	162,000	98,400	100,000	95,800	100,000	94,100	98,300	103,000	127,000	96,900	88,900	101,000	NA	NA
Chromium	µg/L	ND	ND	ND	ND	ND	1.2 B	2.3 B	0.22 B	ND	ND	0.45 B	0.17 B	ND	0.25 B	0.29 B	0.63 B	ND	0.64 B	0.21 B	1.1 B	0.27 B	ND	ND
Cobalt	µg/L	7.8 B	7.6 B	11.3 B	5.5 B	4.8 B	8.0 B	3.9 B	5.1 B	6.3 B	8.4 B	4.3 B	3.2 B	4.2 B	4.1 B	3.4 B	3.8 B	3.4 B	2.5 B	3.4 B	4.9 B	3.8 B	ND	ND
Copper	µg/L	ND	1.2 B	26.6	4.5 B	1.0 B	ND	0.60 B	4.4 B	2.5 B	3.3 B	3.2 B	ND	ND	3.0 B	ND	1.8 B	4.4 B	ND	5.0 B	1.6 B	ND	ND	ND
Iron	µg/L	39,800	40,500	187,000	15,800	18,200	44,200	21,300	46,300	32,700	27,600	38,100	39,800	40,100	26,600	38,400	28,000	26,100	136,000	48,300	13,400	23,300	32,100	29,800
Lead	µg/L	ND	3.5	8.6	ND	1.8 B	1.6 B	ND	ND	1.6 B	ND	2.0 B	ND	2.0 B	ND	2.4 B	ND	ND	ND	ND	2.7 B	2.3 B	ND	ND
Magnesium	µg/L	25,700	28,700	33,500	22,000	22,400	47,300	22,600	29,300	29,300	63,900	26,100	26,200	25,200	25,700	25,100	26,700	27,300	31,400	25,800	24,600	29,400	NA	NA
Manganese	µg/L	2,770	2,650	2,530	2,560	2,550	1,440	2,430	2,160	2,510	688	2,590	2,760	2,700	2,450	2,580	2,390	2,490	2,700	2,470	2,160	2,160	NA	NA
Mercury	µg/L	ND	ND	ND	0.062 B	ND	0.086 B	ND	ND	ND	0.084 B	ND	ND	ND	ND	ND	ND	ND	ND	0.79	0.016 B	ND	ND	ND
Nickel	µg/L	4.9 B	7.3 B	11.4 B	4.4 B	5.6 B	17.5 B	5.2 B	6.8 B	6.6 B	23.5 B	5.1 B	2.8 B	1.9 B	4.0 B	4.3 B	5.2 B	3.5 B	5.3 B	4.0 B	5.6 B	6.2 B	ND	ND
Potassium	µg/L	4,350 B	9,860	15,500	3,320 B	3,480 B	35,200	3,560	12,900	11,100	56,200	8,110	4,760	5,420	5,070	6,350	9,120	5,660	8,360	6,280	6,790	10,700	NA	NA
Selenium	µg/L	20.7	16.9	ND	21.7	10.9	10.7	8.4	9.8	ND	ND	ND	ND	ND	12.8	ND	ND	6.8	48.8	16.1	ND	ND	NA	NA
Silver	µg/L	3.8 B	ND	47.8	ND	ND	ND	3.2 B	4.7 B	ND	1.1 B	ND	ND	4.1 B	ND	ND	1.1 B	ND	ND	0.62 B	2.3 B	ND	NA	NA
Sodium	µg/L	47,700	69,300	93,500	41,500	45,000	168,000	43,900	81,400	71,600	243,000	58,500	44,700	45,700	45,500	51,600	61,400	50,500	63,800	54,500	56,800	72,100	NA	NA
Thallium	µg/L	11.6	4.1 B	ND	8.5 B	3.3 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Vanadium	µg/L	0.81 B	1.8 B	14.0 B	1.6 B	1.2 B	4.7 B	0.96 B	ND	1.0 B	1.8 B	ND	ND	ND	1.1 B	1.6 B	1.2 B	ND	1.0 B	0.61 B	1.7 B	ND	ND	ND
Zinc	µg/L	3.5 B	1.0 B	7.6 B	6.7 B	2.2 B	0.74 B	6.5 B	6.2 B	4.5 B	8.5 B	12.0 B	9.9 B	11.3 B	15.2 B	15.7 B E	9.0 B	7.6 B	14.2 B	12.1 B	17.4 B	9.3 B	12	ND

NOTES:
Data are shown only for individual detected VOCs, and for metals subject to effluent limitations.
Analysis by EPA Method OLM 4.3 for volatile organics, and ILM 4.1 (+ mercury) for metals.
D - Analysis performed on diluted sample.
J - Estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
E - indicates an estimated concentration due to the presence of interferences, as determined by serial dilution analysis.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
*Possible human error (may be Value x 1,000)

Table 4
EFFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	Discharge Limit	EFFLUENT - 1998													EFFLUENT - 1999												
			9/22/98	9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	11/4/98	11/11/98	11/19/98	11/24/98	12/3/98	12/16/98	12/30/98	1/21/99	2/1/99	2/10/99	2/23/99	3/3/99	3/11/99	3/18/99	3/24/99	4/8/99	4/14/99	4/21/99	4/28/99	5/5/99	5/12/99
Vinyl Chloride	µg/L	50	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	NV	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	20	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	1 J	ND	ND
Carbon disulfide	µg/L	5	NA	ND	ND	ND	ND	ND	ND	**37**	2 J	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	50	NA	ND	4 JB	2 JB	2 JB	2 JB	1 JB	ND	5 B	1	9 B	2 J	2 JB	3 J	3 JB	7 B	ND	ND	ND	NA	1 JB	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/L	30	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	µg/L	30	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	1 J	ND	1 J
Acetone	µg/L	NV	NA	ND	14	12	ND	ND	ND	ND	ND	ND	8 J	ND	18	ND	ND	ND	ND	ND	ND	NA	36	15 J	23 J	ND	ND	ND	ND
Chloroform	µg/L	150	NA	ND	6	ND	ND	ND	12	13	10	10	11	6	ND	ND	ND	ND	4 J	7	5 J	NA	ND	33	ND	ND	ND	ND	ND
2-Butanone	µg/L	NV	NA	ND	ND	ND	ND	ND	ND	ND	ND	80	ND	ND	ND	ND	ND	ND	ND	13	ND	NA	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	30	NA	ND	ND	ND	ND	ND	ND	2 J	2 J	2	2 J	2 J	2	ND	ND	ND	ND	1 J	ND	NA	ND	4 J	ND	ND	ND	ND	ND
Benzene	µg/L	10	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	1 J
Toluene	µg/L	10	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	1 J	1 J
2-Hexanone	µg/L	5	NA	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	10	NA	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	10	NA	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	NV	NA	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	NV	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	µg/L	10	NA	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	NV	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	13	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	NV	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	µg/L	-		0.0	24.0	14.0	2.0	2.0	13.0	52.0	19.0	95.0	30.0	10.0	22.0	3.0	3.0	7.0	4.0	21.0	5.0	0.0	37.0	65.0	23.0	0.0	4.0	1.0	3.0
Aluminum, Total	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88.8 B	14.9 B	24.9 B	ND	ND
Antimony, Total	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	1.9 B	ND	ND	ND
Arsenic, Total	µg/L	150	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	3.9 B	3.2 B	10.6	6.5 B
Barium, Total	µg/L	Monitor	NA	ND	59.1	62.8	66.4	ND	ND	72.0	59.5	76.9	86.3	NA	93.8	67.1	176	202	111	59 B	86.2 B	NA	ND	54.3 B	152 B	157 B	160 B	166 B	161 B
Cadmium, Total	µg/L	1	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.42 B	ND	ND	0.36 B	0.71 B
Calcium, Total	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	124,000	125,000	123,000	118,000	116,000
Chromium, Total	µg/L	210	NA	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	NA	ND	ND	8.5	13.7	ND	ND	ND	NA	ND	1.2 B	1.2 B	1.5 B	3 B	0.92 B	1.2 B
Cobalt, Total	µg/L	5	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	**33.8**	**53.4**	ND	ND	ND	NA	ND	3 B	**14.1 B**	**15 B**	**13.8 B**	**15.2**	**14.4 B**
Copper, Total	µg/L	24	NA	**28.2**	**60.0**	**50.3**	**67.0**	**49.1**	**483**	**62**	**46.2**	**473**	**29.9**	NA	22.2	**25.2**	**26.9**	22.2	14.8	22.6 B	19.8 B	NA	17.4	7.9 B	ND	ND	ND	ND	ND
Iron, Total	µg/L	300	NA	148	116	262	122	154	246	237	**595**	262	**458**	NA	199	189	**688**	**2,240**	**10,500**	**357**	**4,260**	NA	**2,440**	**5,420**	**20,200**	**17,200**	**19,400**	**19,100**	**24,400**
Lead, Total	µg/L	3.2	NA	**4.53**	**15.2**	**6.85**	ND	**3.38**	**10.4**	ND	ND	**42.2**	ND	NA	ND	**4.2**	**7.1**	ND	**4.4**	ND	**3.6**	NA	**3.2**	**11.4**	**7.7**	**7.1**	**7.3**	**7.5**	**9.6**
Magnesium, Total	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32,500	34,000	35,900	32,800	33,600
Manganese, Total	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,620	2,640	2,580	2,280	2,770
Mercury, Total	µg/L	0.8	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	**0.817**	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Nickel, Total	µg/L	9.6	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	**31.2**	**30.2**	ND	ND	ND	NA	ND	4.8 B	**16.4 B**	**17.6 B**	**15.5 B**	**17.9 B**	**13.9 B**
Potassium	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,800	9,260	8,340	9,760	7,870
Silver	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.1	3.1 B	3.3 B	4.7 B	3.9 B
Sodium	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53,000	55,900	57,400	55,400	53,100
Thallium	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Vanadium, Total	µg/L	14	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	2.3 B	2.2 B	1.7 B	3.7 B	2.2 B
Zinc, Total	µg/L	170	NA	131	96.2	108	108	75	**233**	139	97.3	**398**	**222**	NA	**312**	**438**	141	**280**	58.9	34.3	**181**	NA	**208**	63.6 B	11.6 B	9.3 B	ND	23.1	62.9
Total Dissolved Solids	mg/L	500	NA	460	**500**	390	370	470	430	**530**	390	470	490	**560**	**700**	350	**550**	**640**	490	370	410	NA	140	420	**670**	**700**	**730**	340	**730**
Total Suspended Solids	mg/L	50	NA	8	5	14	1	6	ND	6	3	3	2	3	5	4	3	10	30	4	13	NA	29	**74**	**68**	49	ND	**50**	41

NOTES:
Effluent samples are occasionally collected prior to treatment in effluent polishing pond.
Data are shown for all analytes for which monitoring requirements have been established.
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.

B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
NV - No Value

Table 4
EFFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	Discharge Limit	EFFLUENT - 1999 cont.															EFFLUENT - 2000											
			5/20/99	5/25/99	6/2/99	6/10/99	6/16/99	6/23/99	6/30/99	7/7/99	7/14/99	7/22/99	7/28/99	8/18/99	9/23/99	10/20/99	11/16/99	12/15/99	1/12/00	2/22/00	3/28/00	4/11/00	5/10/00	6/14/00	7/15/00	8/16/00	9/20/00	10/11/00	11/7/00	12/13/00
Vinyl Chloride	µg/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Bromomethane	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Chloroethane	µg/L	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Carbon disulfide	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	50	ND	ND	ND	0.2 BJ	0.2 BJ	ND	0.2 BJ	0.8 BJ	0.4 BJ	0.5 BJ	0.6 BJ	ND	0.2 BJ	0.2 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	0.2 BJ	ND	NA	ND	ND	0.2 BJ	0.4 BJ	0.2 BJ
Methyl t-butyl ether	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	µg/L	30	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	0.1 J	ND	ND	ND	ND	ND	ND	1 J	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	0.9 J
Acetone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	13 B	19 B	14 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	4 J
Chloroform	µg/L	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
2-Butanone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	7 BJ	4 BJ	3 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Benzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Toluene	µg/L	10	ND	ND	0.2 BJ	0.5 BJ	0.3 BJ	0.1 B	0.5 BJ	2 J	ND	0.5 BJ	0.7 BJ	0.2 J	0.3 J	ND	0.8 BJ	ND	ND	ND	ND	ND	0.4 J	0.4 BJ	NA	0.7 J	ND	0.3 J	0.2 BJ	0.4 J
2-Hexanone	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	10	ND	ND	0.08 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	0.04 J
Ethylbenzene	µg/L	10	ND	ND	0.2 BJ	0.2 BJ	ND	ND	ND	ND	ND	0.02 BJ	ND	0.7 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Styrene	µg/L	NV	ND	ND	0.2 BJ	0.3 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02 BJ	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Bromoform	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	µg/L	NV	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	µg/L	NV	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	µg/L	10	ND	ND	0.8 BJ	0.8 BJ	0.2 BJ	0.06 BJ	0.1 BJ	ND	ND	0.2 BJ	ND	0.3 BJ	ND	ND	0.1 BJ	ND	0.1 J	ND	ND	ND	ND	0.1 BJ	NA	0.1 BJ	0.03 J	0.1 BJ	0.07 BJ	0.06 BJ
Trichloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	NV	ND	ND	0.05 BJ	0.04 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Total VOCs	µg/L	-	0.0	0.0	1.53	2.24	0.7	0.16	0.8	23.1	23.4	19.19	1.5	1.2	0.5	0.2	1.12	0.1	1.1	0.0	0.0	0.0	0.6	0.5		0.8	0.03	0.6	0.67	5.6
Aluminum, Total	µg/L	NV	30.9 B	43.6 B	32	ND	ND	ND	ND	59	ND	115	ND	ND	348	ND	ND	ND	399	41	49	650	ND	ND	NA	39	ND	ND	153	53
Antimony, Total	µg/L	NV	20.8 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Arsenic, Total	µg/L	150	ND	ND	ND	ND	ND	ND	ND	10	ND	17	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	18	ND	ND	ND	18
Barium, Total	µg/L	Monitor	49.6 B	50.8 B	25	36	41	43	70	155	75	186	142	90	67	46	56	67	99	51	25	25	93	52	NA	120	76	96	82	168
Cadmium, Total	µg/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Calcium, Total	µg/L	NV	88,100	103,000	83,700	92.2	98.1	103	88.7	128	82.4	123	109	103	57.8	92,000	96,400	103,000	103,000	124,000	34,200	33,900	95,200	71,600	NA	76,900	92,200	86,900	83,900	120,000
Chromium, Total	µg/L	210	1.2 B	1.1 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Cobalt, Total	µg/L	5	1.9 B	3.8 B	ND	ND	ND	ND	ND	**6**	ND	**5**	ND	ND	ND	ND	ND	ND	**8**	**5**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Copper, Total	µg/L	24	1.4 B	2.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Iron, Total	µg/L	300	**520**	**529**	**389**	**1,090**	**766**	280	**476**	**7,470**	98	**24,000**	**4,500**	210	**1,150**	39	82	81	**7,690**	**339**	**467**	**1,100**	**11,600**	**7,190**	NA	**39,600**	**5,300**	**8,260**	**8,300**	**18,900**
Lead, Total	µg/L	3.2	**5.2 B**	**8.1 B**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Magnesium, Total	µg/L	NV	35,800	35,100	31,700	35.4	36.1	37.5	36.5	37.8	33.5	35.8	32.6	33.3	15	26,400	27,200	29,100	20,300	48,800	8,300	7,800	23,600	18,300	NA	20,100	25,900	25,000	25,200	31,500
Manganese, Total	µg/L	NV	445	507	1,480	2,290	715	162	1,270	1,380	103	1,400	786	437	987	11	27	7	1,760	1,330	289	117	1,290	812	NA	1,250	1,050	837	1,050	2,490
Mercury, Total	µg/L	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Nickel, Total	µg/L	9.6	9.1 B	**11.4 B**	**11**	**10**	5	6	6	**12**	5	9	8	ND	ND	5	7	5	8	7	ND	ND	6	ND	NA	ND	ND	8	ND	**10**
Potassium	µg/L	NV	6,570	6,400	4,800	4.8	4.7	2.8	2.5	11.8	2.3	11.2	10.4	6.6	6.6	5,600	8,400	9,000	5,200	1,900	1,100	1,400	5,800	2,300	NA	4,600	6,700	11,000	9,800	13,900
Silver	µg/L	NV	3.9 B	2.7 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Sodium	µg/L	NV	49,300	57,300	56,100	61.2	62.7	64.7	60.6	73	54.5	62.9	62.4	60.4	20.1	38,400	44,100	41,900	30,400	44,000	8,000	6,300	38,200	25,600	NA	32,000	38,600	43,800	35,100	50,900
Thallium	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Vanadium, Total	µg/L	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	5	ND	ND	ND	ND
Zinc, Total	µg/L	170	40 B	42.5 B	53	70	55	23	25	ND	18	12	ND	35	110	ND	17	30	ND	**201**	ND	ND	ND	ND	NA	41	ND	ND	ND	ND
Total Dissolved Solids	mg/L	500	**550**	**620**	**580**	**622**	**663**	**666**	**617**	**702**	**547**	**747**	**676**	**643**	309	**501**	**541**	**564**	478	**604**	140	179	470	320	NA	410	**516**	NA	487	**640**
Total Suspended Solids	mg/L	50	ND	ND	4	10	5	10	17	25	3	17	21	6	11	ND	ND	ND	44	3	4	10	32	15	NA	**63**	14	23	**64**	45

NOTES:
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Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.

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NA - Not Analyzed
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Table 4
EFFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	Discharge Limit	EFFLUENT - 2001												EFFLUENT - 2002										
			1/10/01	2/14/01	3/13/01	4/11/01	5/9/01	6/13/01	7/11/01	8/15/01	9/10/01	10/10/01	11/14/01	12/12/01	1/9/02	2/13/02	3/12/02	4/10/02	5/8/02	6/11/02	7/10/02	8/7/02	9/4/02	10/9/02	11/6/02	12/10/02
Vinyl Chloride	µg/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND
Bromomethane	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	20	ND	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	0.6 J
Carbon disulfide	µg/L	5	ND	ND	0.2 BJ	0.04 BJ	ND	2 J	ND	ND	ND	ND	ND	ND	ND	ND	0.2 BJ	ND	ND	0.1 BJ	0.2 BJ	ND	ND	0.1 BJ	ND	0.2 BJ
Methylene Chloride	µg/L	50	0.4 BJ	0.2 BJ	0.2 BJ	0.3 BJ	0.09 BJ	0.3 BJ	0.1 BJ	0.2 BJ	0.1 BJ	0.2 BJ	0.3 BJ	0.3 BJ	0.3 BJ	0.5 BJ	0.1 BJ	ND	0.1 BJ	ND	0.1 BJ	ND	ND	ND	0.3 BJ	0.4 BJ
Methyl t-butyl ether	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	µg/L	30	0.8 J	0.8 J	1 J	ND	ND	ND	ND	0.5 J	ND	0.4 J	0.4 J	0.8 J	ND	2 J	0.5 J	0.3 J	ND	0.2 J	ND	ND	ND	ND	16.4	6 J
Acetone	µg/L	NV	ND	3 BJ	ND	ND	ND	1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7 J
Chloroform	µg/L	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 J	ND
Toluene	µg/L	10	ND	ND	ND	0.1 J	0.06 BJ	ND	0.2 BJ	0.3 BJ	0.07 BJ	0.3 BJ	0.06 J	ND	ND	0.3 J	0.1 BJ	ND	ND	ND	ND	0.04 J	0.1 J	0.7 BJ	0.7 BJ	1 BJ
2-Hexanone	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9 J	ND
Ethylbenzene	µg/L	10	ND	ND	ND	ND	0.06 BJ	0.05 BJ	0.06 BJ	0.05 BJ	ND	ND	ND	0.1 BJ	0.04 BJ	0.06 BJ	0.1 BJ	0.08 BJ	0.07 BJ	ND	0.06 BJ	ND	0.05 J	0.07 BJ	0.2 BJ	0.07 BJ
Styrene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NV	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	ND	0.1 BJ	ND	ND	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND
1,3-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	0.02 BJ	ND	0.03 BJ	0.01 BJ	0.01 BJ	ND	ND	0.3 BJ	0.1 BJ	0.1 BJ	0.4 BJ	0.2 BJ	0.2 BJ	0.2 BJ	0.2 BJ	ND	ND	0.1 BJ	0.1 BJ	0.2 BJ
1,4-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	0.02 BJ	ND	0.04 BJ	0.02 BJ	0.03 BJ	ND	ND	0.4 BJ	0.1 BJ	0.1 BJ	0.4 BJ	0.3 BJ	0.2 BJ	0.09 BJ	0.2 BJ	ND	0.02 BJ	0.2 BJ	0.2 BJ	0.2 BJ
1,2-Dichlorobenzene	µg/L	NV	NA	NA	NA	NA	0.02 BJ	ND	0.04 BJ	ND	0.02 BJ	ND	ND	0.2 BJ	0.06 BJ	0.07 BJ	0.3 BJ	0.2 BJ	0.2 BJ	0.09 BJ	0.1 BJ	ND	ND	0.08 BJ	0.1 BJ	0.2 BJ
1,2,4-Trichlorobenzene	µg/L	NV	NA	NA	NA	NA	0.06 BJ	ND	0.2 BJ	0.06	0.08 BJ	0.07 BJ	0.06 BJ	0.7 BJ	0.3 BJ	0.2 BJ	1 BJ	2 BJ	0.9 BJ	2 BJ	0.1 BJ	ND	ND	0.3 BJ	0.1 B	0.2 BJ
Xylenes, Total	µg/L	10	0.05 BJ	0.04 BJ	0.03 J	ND	0.1 BJ	0.08 BJ	0.4 BJ	0.3 BJ	0.04 BJ	0.08 BJ	ND	0.4 BJ	0.1 BJ	0.2 BJ	0.5 BJ	0.4 BJ	0.2 BJ	ND	0.4 BJ	0.2 BJ	ND	0.3 BJ	0.4 BJ	0.3 BJ
Trichloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3 BJ	0.06 BJ	ND	0.3 BJ	0.2 BJ	0.1 BJ	0.09 BJ	0.2 BJ	ND	0.06 BJ	0.1 BJ	0.06 BJ	0.1 BJ
Total VOCs	µg/L	-	1.25	4.04	1.43	0.44	0.43	3.43	1.07	1.64	0.35	1.05	0.82	3.60	1.06	3.53	4.1	3.68	1.97	2.77	1.56	0.24	0.23	1.95	56.96	16.47
Aluminum, Total	µg/L	NV	ND	39	484	253	103	ND	53	40	344	125	ND	72	63	ND	ND	ND	ND	ND	305	ND	ND	ND	81	230
Antimony, Total	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Arsenic, Total	µg/L	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	11	7
Barium, Total	µg/L	Monitor	69	75	50	7	29	21	28	144	46	41	43	81	36	106	74	68	65	36	89	33	43	56	430	180
Cadmium, Total	µg/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium, Total	µg/L	NV	105,000	94,900	68,500	5,300	70,100	42,900	66,000	120,000	105,000	111,000	124,000	121,000	117,000	115,000	69,000	77,000	87,000	115,000	104,000	100,000	90,000	97,000	160,000	130,000
Chromium, Total	µg/L	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt, Total	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5**	ND	**7**	**10**
Copper, Total	µg/L	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND
Iron, Total	µg/L	300	**1,320**	**1,920**	**1,230**	**575**	**343**	**569**	**643**	**55,600**	**4,350**	**4480**	**574**	**1010**	**978**	**1,600**	**4,070**	**1,170**	**5,720**	51	**22,200**	**300**	**4,530**	**2,370**	**39,000**	**30,000**
Lead, Total	µg/L	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**22**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium, Total	µg/L	NV	32,300	29,500	21,400	2,500	25,200	17,700	23,800	44,700	42,000	40,400	49,000	30,900	55,100	30,000	16,000	18,000	28,000	55,000	50,000	50,000	45,000	44,000	40,000	30,000
Manganese, Total	µg/L	NV	1300	2450	1370	86	209	158	452	2,190	973	668	1,810	399	1,730	1,260	1,290	426	780	21	1,490	186	1,590	1,250	2,600	3,800
Mercury, Total	µg/L	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel, Total	µg/L	9.6	ND	5	5	ND	5	ND	ND	6	ND	ND	ND	ND	5	8	ND	6	ND	7	ND	ND	ND	ND	**14**	8
Potassium	µg/L	NV	8,600	7,800	5,700	ND	3,600	3,000	2,900	8,800	4,500	5,300	6,600	12,600	4,200	8,000	5,000	5,000	5,000	4,000	3,000	3,000	3,000	4,000	27,000	13,000
Silver	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	µg/L	NV	41,900	37,300	30,600	1,500	21,200	20,700	23,000	37,100	46,100	46,000	37,700	56,700	39,400	40,000	17,000	20,000	27,000	38,000	34,000	33,000	31,000	28,000	120,000	49,000
Thallium	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	11	11	6	15	ND	ND	ND	15	ND	10
Vanadium, Total	µg/L	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Zinc, Total	µg/L	170	48	19	29	15	110	62	13	129	56	46	ND	34	ND	7	ND	ND	7	ND	46	ND	16	29	18	18
Total Dissolved Solids	mg/L	500	**570**	**510**	410	84	374	280	380	**680**	**600**	**650**	**700**	**710**	**730**	**630**	360	370	470	**690**	**630**	**640**	**680**	**640**	**960**	**670**
Total Suspended Solids	mg/L	50	6	10	20	9	ND	2	4	13	33	8	3	10	6	33	3	2	19	13	49	ND	14	**90**	**79**	**59**

NOTES:
Effluent samples are occasionally collected prior to treatment in effluent polishing pond.
Data are shown for all analytes for which monitoring requirements have been established.
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.

B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
NV - No Value

Table 4
EFFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	Discharge Limit	EFFLUENT - 2003												EFFLUENT - 2004					
			1/8/03	2/5/03	3/5/03	4/9/03	5/7/03	6/24/03	7/24/03	8/22/03	9/10/03	10/24/03	11/21/03	12/11/03	1/22/04	2/24/04	3/26/04	5/26/04	6/16/04	9/27/04
Vinyl Chloride	µg/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Bromomethane	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroethane	µg/L	20	0.7 J	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Carbon disulfide	µg/L	5	ND	0.1 J	0.1 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Methylene Chloride	µg/L	50	0.4 BJ	0.2 BJ	0.2 BJ	0.2 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Methyl t-butyl ether	µg/L	NV	ND	0.2 J	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,1-Dichloroethane	µg/L	30	ND	ND	0.06 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethene (Total)	µg/L	30	7 J	4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Acetone	µg/L	NV	4 J	8 J	10 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroform	µg/L	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
2-Butanone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Bromodichloromethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Benzene	µg/L	10	0.4 J	0.3 J	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Toluene	µg/L	10	0.4 J	0.9 J	1 BJ	0.1 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
2-Hexanone	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chlorobenzene	µg/L	10	ND	ND	0.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	µg/L	10	0.1 BJ	0.06 BJ	0.05 BJ	0.08 BJ	0.07 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Styrene	µg/L	NV	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Bromoform	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Isopropylbenzene	µg/L	NV	0.2 BJ	0.07 BJ	0.06 BJ	0.08 BJ	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	µg/L	NV	0.2 BJ	0.1 BJ	0.09 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,4-Dichlorobenzene	µg/L	NV	0.3 BJ	0.2 BJ	0.1 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichlorobenzene	µg/L	NV	0.2 BJ	0.1 BJ	0.05 BJ	0.1 BJ	0.08 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2,4-Trichlorobenzene	µg/L	NV	0.8 BJ	0.1 BJ	0.05 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Xylenes, Total	µg/L	10	0.4 BJ	0.2 BJ	0.2 BJ	0.3 BJ	0.2 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Trichloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Tetrachloroethene	µg/L	NV	0.1 BJ	0.1 BJ	0.07 BJ	0.2 BJ	0.1 BJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Total VOCs	µg/L	-	15.30	14.63	13.43	1.76	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Aluminum, Total	µg/L	NV	220	76	94	1,000	NA	ND	196	102	69	360	1,300	99	130	85	NA	NA	NA	NA
Antimony, Total	µg/L	NV	7	9	7	ND	ND	ND	ND	ND	ND	ND	4 BJ	ND	ND	ND	NA	NA	NA	NA
Arsenic, Total	µg/L	150	ND	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND
Barium, Total	µg/L	Monitor	150	160	170	27	25	37 B	ND	60	58 B	60 BJ	20 BJ	20 BJ	30 BJ	50 BJ	NA	NA	NA	47.5
Cadmium, Total	µg/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND	NA	NA	NA	ND
Calcium, Total	µg/L	NV	110,000	110,000	120,000	26,000	78,000	130,000	92,900	139,000	136,000	160,000	29,000	120,000	130,000	140,000	NA	NA	NA	NA
Chromium, Total	µg/L	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 BJ	3 BJ	2 BJ	2 BJ	3 BJ	NA	NA	NA	1
Cobalt, Total	µg/L	5	**9**	**8**	**9**	ND	ND	ND	ND	ND	ND	4 BJ	1 BJ	1 BJ	1 BJ	3 BJ	NA	NA	NA	1.1
Copper, Total	µg/L	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 BJ	5.6	2 BJ	2 BJ	2 BJ	NA	NA	NA	1.4
Iron, Total	µg/L	300	**22,000**	**27,000**	**34,000**	**1,500**	190	**7,470**	**809**	**12,600**	**11,500**	**9,000**	**1,600**	170	**2,100**	**2,000**	NA	NA	NA	**4,830**
Lead, Total	µg/L	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 BJ	2 BJ	0.6 BJ	0.5 BJ	0.8 BJ	NA	NA	NA	ND
Magnesium, Total	µg/L	NV	26,000	23,000	25,000	11,000	22,000	49,300	23,300	43,200	42,300	68,000	10,000	30,000	35,000	60,000	NA	NA	NA	NA
Manganese, Total	µg/L	NV	2,700	3,100	3,300	100	13	1520	92 B	1810	1,790	1,200	56	70	140	850	NA	NA	NA	NA
Mercury, Total	µg/L	0.8	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	ND
Nickel, Total	µg/L	9.6	7	5	6	ND	ND	ND	ND	ND	ND	6.1	4 BJ	2 BJ	3 BJ	4 BJ	NA	NA	NA	1.9
Potassium	µg/L	NV	8,000	9,000	9,000	3,000	3,000	6,670	1,760	6,530	6,080	6,300	5,900	2,600	3,800	7,600	NA	NA	NA	NA
Silver	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68	0.86	ND	ND	NA	NA	NA	NA
Sodium	µg/L	NV	42,000	32,000	36,000	7,000	18,000	28,300	14,300	26,200	26,000	42,000	5,100	28,000	37,000	32,000	NA	NA	NA	NA
Thallium	µg/L	NV	15	23	25	ND	15	ND	ND	ND	ND	0.9 BJ	0.7 BJ	0.9 BJ	0.5 BJ	0.2 BJ	NA	NA	NA	NA
Vanadium, Total	µg/L	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 BJ	3 BJ	0.4 BJ	0.8 BJ	1 BJ	NA	NA	NA	1.2
Zinc, Total	µg/L	170	13	6	12	62	10	ND	11 B	ND	ND	47	63	18	13	16	NA	NA	NA	28.4
Total Dissolved Solids	mg/L	500	**600**	**530**	**550**	140	424	NA	440	**600**	**590**	**674**	152	419	471	**580**	138	160	450	NA
Total Suspended Solids	mg/L	50	**51**	**61**	**77**	44	5	NA	24	24	28	**53**	15.3 J	ND	ND	ND	ND	NA	36	NA

NOTES:
Effluent samples are occasionally collected prior to treatment in effluent polishing pond.
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Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
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Table 4
EFFLUENT ANALYTICAL DATA (1998-2009)
Fort Edward Landfill
Town of Fort Edward, New York
Site No. 5-58-001

Analyte	Units	Discharge Limit	EFFLUENT - 2007					EFFLUENT - 2008											EFFLUENT - 2009					
			8/30/07	9/20/07	10/24/07	11/19/07	12/17/07	1/21/08	2/18/08	3/20/08	4/24/08	5/13/08	6/23/08	7/21/08	8/18/08	9/15/08	10/13/08	11/10/08	12/9/08	1/6/09	2/12/09	3/12/09	4/9/09	5/28/09	6/23/09
Vinyl Chloride	µg/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	µg/L	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/L	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	µg/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	µg/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	µg/L	NV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs	µg/L	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminum, Total	µg/L	NV	707	172 B	548	317	165 B	60.4 B	554	1,810	ND	33.2 B	62.8 B	61.6 B	67.6 B	75.9 B	79.4 B	ND	60.7 B	54.9	391	1,570	26.1 B	NA	NA
Antimony, Total	µg/L	NV	ND	ND	ND	ND	ND	ND	3.9 B	ND	ND	ND	ND	ND	ND	2.2 B	3.1 B	ND	ND	ND	2.6 B	ND	ND	NA	NA
Arsenic, Total	µg/L	150	ND	ND	15.5	ND	ND	ND	ND	ND	ND	ND	ND	7.9 B	6.8 B	ND	2.7 B	ND	ND	ND	ND	ND	ND	ND	ND
Barium, Total	µg/L	Monitor	88.1 B	59.2 B	141 B	45.2 B	60.6 B	33.5 B	44.7 B	38.4 B	29.0 B	40.1 B	27.7 B	86.2 B	78.7 B	39.3 B	69.9 B	24.7 B	56.4 B	43.5 B	40.9 B	30.7 B	48.2 B	62	68
Cadmium, Total	µg/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26 B	ND	ND	ND	ND	ND	ND
Calcium, Total	µg/L	NV	107,000	107,000	116,000	79,400	104,000	60,700	45,600	30,600	67,100	81,500	74,500	101,000	83,000	94,700	101,000	80,200	99,500	89,200	73,300	34,300	57,000	NA	NA
Chromium, Total	µg/L	210	0.38 B	ND	0.68 B	ND	ND	ND	0.70 B	2.9 B	0.23 B	ND	0.79 B	1.1 B	0.86 B	0.67 B	0.51 B	ND	0.77 B	0.89 B	1.2 B	2.8 B	0.38 B	ND	ND
Cobalt, Total	µg/L	5	**6.7 B**	4.0 B	3.7 B	2.0 B	1.6 B	0.73 B	0.97 B	1.4 B	1.6 B	1.3 B	0.65 B	1.2 B	2.5 B	2.9 B	0.67 B	0.46 B	1.4 B	0.80 B	0.90 B	1.3 B	0.76 B	**<50****	**<50****
Copper, Total	µg/L	24	5.0 B	6.0 B	11.7 B	4.9 B	7.3 B	7.3 B	3.6 B	10.0 B	4.4 B	16.7 B	5.3 B	**24.9 B**	5.2 B	10 B	2.7 B	3.5 B	5.6 B	6.5 B	7.9 B	3.5 B	4.7 B	ND	ND
Iron, Total	µg/L	300	**20,100**	**9,460**	**35,600**	**2,080**	**569**	123	**2,160**	**2,500**	270	**1,450**	**586**	**11,500**	**9,420**	**1,200**	**13,100**	157	**1,340**	**410**	**1400**	**2260**	**4,840**	**5530**	**15100**
Lead, Total	µg/L	3.2	1.3 B	**4.0**	**9.4**	ND	1.2 B	ND	ND	1.8 B	1.9 B	1.6 B	1.8 B	**6.9**	**3.5**	ND	ND	1.6 B	ND	1.3 B	ND	2.1 B	2.6 B	ND	ND
Magnesium, Total	µg/L	NV	57,200	47,700	20,200	21,400	22,600	21,900	11,300	7,750	18,300	24,900	21,700	14,700	15,700	19,100	28,800	25,600	25,100	26,300	18,600	11,000	12,300	NA	NA
Manganese, Total	µg/L	NV	932	427	1,640	30.5	217.0	114.0	215.0	202.0	134.0	261.0	85.7	1,270	1,220	257	1,260	119	501	29.2	74.2	52.5	710	NA	NA
Mercury, Total	µg/L	0.8	ND	ND	ND	0.075 B	ND	0.088 B	ND	ND	ND	0.092 B	ND	ND	ND	ND	ND	ND	ND	0.018 B	0.061 B	ND	ND	ND	ND
Nickel, Total	µg/L	9.6	6.0 B	6.0 B	7.7 B	4.2 B	6.0 B	3.3 B	3.4 B	3.2 B	3.2 B	2.7 B	3.4 B	3.2 B	3.7 B	4.6 B	4.1 B	2.5 B	3.5 B	4.0 B	3.3 B	3.5 B	3.0 B	ND	ND
Potassium	µg/L	NV	4,770	4,550	5,160	7,830	6,900	3,290 B	6,140	3,720	5,110	4,290 B	1,540 B	5,260	8,760	4,670 B	5,810	2,230	12,300	6,850	7,450	3,140	5,530	NA	NA
Silver	µg/L	NV	6.0 B	ND	1.4 B	ND	ND	6.7 B	3.3 B	5.7 B	ND	0.51 B	ND	1.8 B	4.4 B	0.34 B	ND	1.2 B	ND	ND	1.7 B	ND	ND	NA	NA
Sodium	µg/L	NV	32,700	31,600	33,000	17,600	16,700	16,600	9,640	6,100	14,800	19,000	19,600	18,900	22,900	24,400	42,000	21,700	38,700	33,100	25,900	8,180	16,900	NA	NA
Thallium	µg/L	NV	ND	4.4 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Vanadium, Total	µg/L	14	4.1 B	1.5 B	7.6 B	2.7 B	1.6 B	ND	1.4 B	3.3 B	ND	0.52 B	0.85 B	2.9 B	ND	1.3 B	1.4 B	0.43 B	0.44 B	0.45 B	1.8 B	3.0 B	0.43 B	**<20***	**<20***
Zinc, Total	µg/L	170	29.0	12.3 B	39.8 E	20 B	23.7	7.9 B	8.6 B	16.2 B	11.5 B	27.7	22.2	45.6	25.9	20.4	16 B E	6.4 B	14.3 B	15.2 B	27.2	35.0	4.3 B	18	ND
Total Dissolved Solids	mg/L	500	**620**	**600**	**520**	370	430	320	220	170	310	380	360	410	370	**860**	**500**	380	450	410	340	230	280	340	377
Total Suspended Solids	mg/L	50	**100**	46	**78**	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10	28	32	<10	<10	15	<10	16	<1.0	42

NOTES:
Effluent samples are occasionally collected prior to treatment in effluent polishing pond.
Data are shown for all analytes for which monitoring requirements have been established.
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.

B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed
NV - No Value

*5/28/09 and 6/23/09 vanadium analysis has a PQL (20 ug/L) higher than discharge limit (14 ug/L).
**5/28/09 and 6/23/09 cobalt analysis has a PQL (50 ug/L) higher than discharge limit (5 ug/L).

Appendix A

IC/EC Certification Forms

New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor
625 Broadway, Albany, New York 12233-7011
Phone: (518) 402-9553 **Fax:** (518) 402-9577
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

45-Day Reminder Notice: Site Management Periodic Review

Fort Edward, NY 12828

August 21, 2009
Site Name: Fort Edward Landfill
Site No.: 558001
Site Address: Burgoyne Avenue
Fort Edward, NY 12828

Dear :

This is a reminder that as part of the last phase of a site's remedial program (i.e., "Site Management" (SM)), a progress report for your site is to be submitted by you, the site owner or Remedial Party, to the New York State Department of Environmental Conservation (Department) by **Monday, November 2, 2009**. This report, now referred to as the Periodic Review Report (PRR) documents the implementation of and compliance with the Site Management requirements for this site. SM is a concept defined in regulation (6 NYCRR 375-1.2(at)). A suggested outline for the PRR is enclosed. If the site is comprised of multiple properties or parcels, then you as the owner or Remedial Party must arrange to submit one PRR for all parcels that comprise the site.

Depending on the age of the remedial program for your site, the document(s) governing SM for your site will be different. Previously, SM requirements were contained in separate documents with specific titles (e.g., Operation, Maintenance, and Monitoring Plan or Soil Management Plan) and are now being incorporated into one comprehensive "Site Management Plan" (SMP). A SMP may contain one or all of the following elements as applicable to the site; a plan to maintain institutional and/or engineering controls ("IC/EC Plan"), a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"), and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the requirements for SM are normally stated in the decision document (e.g., Record of Decision) and/or the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), please sign and include the enclosed forms documenting that all SM requirements are being met. If there is some reason you cannot certify that all SM requirements are being met, you should indicate this and include a statement of explanation in the PRR with a schedule for addressing the problem(s). The Periodic Review process will not be considered complete until all necessary corrective measures are completed and any required controls are certified. Instructions for completing the certifications are enclosed.

If you have any questions, or need additional information, please contact Payson Long, Project Manager at 518-402-9813.

Enclosures

ec: Payson Long, Project Manager
Robert Knizek, Bureau Director
Russ Huyck, Hazardous Waste Remediation Engineer, Region 5
Gary Litwin, DOH

cc: Fort Edward Corp

Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 558001

Site Name Fort Edward Landfill

Site Address: Burgoyne Avenue Zip Code: 12828

City/Town: Fort Edward

County: Washington

Allowable Use(s) (if applicable, does not address local zoning): Industrial

Site Acreage: 23.0

Verification of Site Details **Box 2**

		YES	NO
1.	Are the Site Details above, correct?	☐	☐
	If NO, are changes handwritten above or included on a separate sheet?	☐	
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?	☐	☐
	If YES, is documentation or evidence that documentation has been previously submitted included with this certification?	☐	
3.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?	☐	☐
	If YES, is documentation (or evidence that documentation has been previously submitted) included with this certification?	☐	
4.	If use of the site is restricted, is the current use of the site consistent with those restrictions?	☐	☐
	If NO, is an explanation included with this certification?	☐	
5.	For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☐
	If YES, is the new information or evidence that new information has been previously submitted included with this Certification?	☐	
6.	For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years)?	☐	☐
	If NO, are changes in the assessment included with this certification?	☐	

SITE NO. 558001 **Box 3**

Description of Institutional Controls

Parcel	Institutional Control
S_B_L Image: **163.-1-2**	Decision Document Ground Water Use Restriction Landuse Restriction Soil Management Plan Surface Water Use Restriction

Box 4

Description of Engineering Controls

Parcel	Engineering Control
S_B_L Image: **163.-1-2**	Cover System Fencing/Access Control Groundwater Containment Leachate Collection Point-of-Entry Water Treatment Pump & Treat Subsurface Barriers

Attach documentation if IC/ECs cannot be certified or why IC/ECs are no longer applicable. (See instructions)

Control Description for Site No. 558001

Parcel: 163.-1-2

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☐	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

3. If this site has an Operation and Maintenance (O&M) Plan (or equivalent as required in the Decision Document);

   I certify by checking "YES" below that the O&M Plan Requirements (or equivalent as required in the Decision Document) are being met.

YES	NO
☐	☐

4. If this site has a Monitoring Plan (or equivalent as required in the remedy selection document);

   I certify by checking "YES" below that the requirements of the Monitoring Plan (or equivalent as required in the Decision Document) is being met.

YES	NO
☐	☐

IC CERTIFICATIONS
SITE NO. 558001

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner or Remedial Party Rendering Certification Date

IC/EC CERTIFICATIONS

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a Qualified Environmental Professional for the _____

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

_____ _____ _____
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Stamp (if Required) Date

Enclosure 2

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the six questions in the Verification of Site Details Section. Questions 5 and 6 only refer to sites in the Brownfield Cleanup Program. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3, 4, and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party is to petition the Department requesting approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control and/or certify the other SM Plan components that are applicable, continue to complete the remainder of this **Certification** form. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a statement of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

   If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) is to be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page. Where the only control is an Institutional Control on the use of the property the certification statement in Box 6 shall be completed and may be made by the property owner. Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional (see table below).

Table 1. Signature Requirements for Control Certification Page

Type of Control	Example of IC/EC	Required Signatures
EC which does not include a treatment system or engineered caps.	Fence, Clean Soil Cover, Individual House Water Treatment System, Vapor Mitigation System	A site or property owner or remedial party, and a QEP. (P.E. license not required)
EC that includes treatment system or an engineered cap.	Pump & Treat System providing hydraulic control of a plume, Part 360 Cap.	A site or property owner or remedial party, and a QEP with a P.E. license.

WHERE to mail the signed Certification Form by **Monday, November 2, 2009**:

New York State Department of Environmental Conservation

625 Broadway, BURE
Albany, NY 12233

Attn: Payson Long, Project Manager

Please note that extra postage may be required.

Appendix B

Air Stripper Effluent and CWTS Effluent Analytical Results: 1998 - 1999

Appendix B
Air Stripper Effluent
Fort Edward Landfill
Town of Fort Edward, New York
Site #5-58-001

Analyte	Units	Air Stripper Effluent						Criteria
		9/22/98	9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	50
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	20
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	-
Methylene Chloride	µg/L	ND	ND	ND	**5 B**	**1 JB**	**3 JB**	50
1,2-Dichloroethene (Total)	µg/L	ND	ND	ND	ND	ND	ND	30
Acetone	µg/L	ND	ND	**16**	**9 J**	**53**	**33**	-
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	150
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	-
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	30
Benzene	µg/L	ND	ND	ND	ND	ND	ND	10
Toluene	µg/L	ND	ND	ND	ND	ND	ND	10
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	10
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	10
Xylenes, Total	µg/L	ND	ND	ND	ND	ND	ND	10
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	-
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	-
Phenols, Total Phenolics	mg/L	NA	NA	NA	NA	NA	NA	0.008
pH	SU	NA	NA	NA	NA	NA	NA	6.0-9.0
Arsenic, Total	µg/L	**13.1**	**10.4**	ND	**24.7**	ND	ND	150
Barium, Total	µg/L	**120**	**120**	**160**	**227**	**116**	**119**	3500
Cadmium, Total	µg/L	ND	ND	ND	**12.1**	ND	ND	1
Chromium, Total	µg/L	ND	ND	ND	**13.6**	ND	ND	210
Cobalt, Total	µg/L	ND	ND	ND	ND	ND	ND	5
Copper, Total	µg/L	**12.6**	ND	**14.6**	**14.9**	ND	ND	24
Iron, Total	µg/L	**36,400**	**36,400**	**28,600**	**34,400**	**34,600**	**34,300**	300
Lead, Total	µg/L	**12.2**	**7.59**	**13.5**	**18.0**	**6.56**	**11.2**	3.2
Mercury, Total	µg/L	ND	ND	ND	ND	ND	ND	0.8
Nickel, Total	µg/L	ND	ND	ND	ND	ND	ND	9.6
Zinc, Total	µg/L	**26**	**20.3**	**28.5**	**27.3**	**10.3**	ND	170
Total Dissolved Solids	mg/L	NA	NA	NA	NA	NA	NA	500
Total Suspended Solids	mg/L	NA	NA	NA	NA	NA	NA	50

NOTES:
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed

Appendix B
CWTS Effluent Analytical Results - Cell 1 Effluent Data
Fort Edwards Landfill
Town of Fort Edward, New York
Site # 5-58-001

Analyte	Units	Cell 1 Effluent																	Criteria
		9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	11/4/98	11/11/98	11/19/98	11/24/98	12/3/98	12/16/98	12/30/98	1/6/99	1/21/99	2/1/99	2/10/99	2/23/99	3/3/99	
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1**	ND	ND	ND	ND	ND	50
Chloroethane	µg/L	ND	ND	**2 J**	ND	ND	ND	**2 J**	ND	ND	**1 J**	ND	ND	**2**	ND	ND	ND	ND	ND	20
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	ND	ND	**1 J**	ND	ND	ND	ND	ND	ND	ND	**26**	ND	ND	-
Methylene Chloride	µg/L	ND	ND	**10 B**	**3 JB**	**3 JB**	**2 JB**	ND	**6 B**	**1**	**5 JB**	ND	**3 JB**	**5 JB**	ND	**5 JB**	**4 JB**	**2 J**	ND	50
1,2-Dichloroethene (Total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	30
Acetone	µg/L	ND	**19**	ND	ND	ND	**13**	ND	**15**	**9**	ND	ND	**19**	**19**	ND	ND	ND	ND	**17**	-
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	ND	ND	ND	**4 J**	**4 J**	**5 J**	ND	150
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	**11**	ND	ND	ND	ND	**11**	ND	ND	ND	ND	-
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1 J**	ND	ND	ND	ND	ND	ND	ND	30
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	10
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Xylenes, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Phenols, Total Phenolics	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.0-9.0
Arsenic, Total	µg/L	ND	ND	**20.8**	ND	**12.1**	**27.6**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	150
Barium, Total	µg/L	**103**	**107**	**297**	**157**	**201**	**322**	**175**	**158**	**130**	**149**	NA	**157**	**171**	**140 B**	**112**	**109**	**94.2 B**	**84.4 B**	3500
Cadmium, Total	µg/L	ND	ND	ND	ND	ND	**14.2**	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	1
Chromium, Total	µg/L	ND	ND	ND	ND	ND	**15.4**	ND	ND	ND	ND	NA	ND	**5.8**	ND	ND	ND	ND	ND	210
Cobalt, Total	µg/L	ND	ND	**21.0**	**21.6**	**22.6**	**26.1**	**29.6**	**22.7**	ND	**24.9**	NA	**23.6**	ND	**22.4 B**	ND	ND	ND	ND	5
Copper, Total	µg/L	**19.5**	**30.8**	ND	ND	ND	**17.7**	**21.8**	ND	**15.2**	ND	NA	ND	ND	**21.6 B**	**19.5**	**19.5**	**11.9 B**	**15.6 B**	24
Iron, Total	µg/L	**8,630**	**4,840**	**7,380**	**7,200**	**4,710**	**10,200**	**8,020**	**4,820**	**4,930**	**5,910**	NA	**12,500**	**15,500**	**2,460**	**5,380**	**7,180**	**7,240**	**652**	300
Lead, Total	µg/L	**14.40**	**60.1**	**8.11**	**5.08**	**6.26**	ND	ND	**4.1**	**5.3**	ND	NA	**4.3**	ND	**5.8**	**3.4**	**8.2**	ND	**5.2**	3.2
Mercury, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	**0.261**	ND	ND	ND	0.8
Nickel, Total	µg/L	ND	ND	ND	ND	ND	ND	**31.8**	**34.8**	ND	ND	NA	ND	**32**	**35.2 B**	ND	ND	ND	ND	9.6
Zinc, Total	µg/L	**269**	**44.6**	**78.5**	**188**	**24.7**	**376**	**27**	**43.1**	**32.2**	**45.9**	NA	**31.9**	**68.2**	**189**	**125**	**103**	**27.1**	**26.1**	170
Total Dissolved Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
Total Suspended Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50

NOTES:
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed

Appendix B
CWTS Effluent Analytical Results - Cell 2 Effluent Data
Fort Edward Landfill
Town of Fort Edward, New York
Site #5-58-001

Analyte	Units	Cell 2 Effluent																		Criteria
		9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	11/4/98	11/11/98	11/19/98	11/24/98	12/3/98	12/16/98	12/30/98	1/6/99	1/21/99	2/1/99	2/10/99	2/23/99	3/3/99	
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroethane	µg/L	ND	ND	**2 J**	ND	**1 J**	ND	ND	ND	ND	**2 J**	ND	ND	**1**	ND	ND	**1 J**	ND	ND	20
Carbon disulfide	µg/L	ND	ND	ND	**12**	ND	ND	**2 J**	**8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Methylene Chloride	µg/L	ND	ND	**7 B**	**3 JB**	**3 JB**	ND	ND	**5 B**	**1**	**14 B**	ND	**2 JB**	**5 JB**	**2 J**	**4 JB**	**3 JB**	ND	ND	50
1,2-Dichloroethene (Total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3 J**	ND	ND	ND	ND	ND	ND	ND	ND	30
Acetone	µg/L	**51**	ND	**8 J**	ND	ND	ND	ND	**15**	ND	ND	**58**	**12**	**46**	ND	ND	ND	ND	ND	-
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	5	150
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	**10**	ND	**130**	ND	ND	**7 J**	ND	ND	ND	ND	-
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2 J	ND	30
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND	**1 J**	ND	ND	10
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Xylenes, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3 J**	ND	ND	ND	ND	ND	ND	ND	ND	-
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Phenols, Total Phenolics	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.0-9.0
Arsenic, Total	µg/L	ND	ND	**12.9**	ND	**21.8**	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	150
Barium, Total	µg/L	**189**	**236**	**171**	**188**	**376**	**128**	**211**	**233**	**181**	**206**	NA	**163**	**156**	**164 B**	**140**	**148**	94.9 B	74.3 B	3500
Cadmium, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	1
Chromium, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	210
Cobalt, Total	µg/L	ND	**23.5**	ND	**25.0**	**28.6**	ND	ND	ND	ND	**29.9**	NA	**20.8**	ND	**23.3 B**	**20.8**	ND	ND	ND	5
Copper, Total	µg/L	ND	ND	ND	ND	ND	ND	**14.5**	ND	ND	ND	NA	ND	ND	**21.5 B**	**12.4**	**14.8**	17 B	17.8 B	24
Iron, Total	µg/L	**7,270**	**7,150**	**9,050**	**5,820**	**28,200**	**2,260**	**10,000**	**3,370**	**1,910**	**12,300**	NA	**10,800**	**10,100**	**12,800**	**10,800**	**19,500**	**11,900**	**521**	300
Lead, Total	µg/L	ND	**14.6**	**14.4**	**5.51**	**4.85**	ND	ND	ND	ND	ND	NA	ND	ND	8	ND	ND	**3.8**	**5.8**	3.2
Mercury, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**0.545**	ND	ND	ND	ND	ND	ND	0.8
Nickel, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	**41.6**	ND	**31.6**	NA	ND	ND	ND	ND	ND	ND	ND	9.6
Zinc, Total	µg/L	**98.3**	**31.4**	**19.6**	**292**	**14.1**	**77.2**	**45.3**	**49.8**	**42**	**25.3**	NA	**27.1**	**195**	**207**	**46.7**	**48.6**	22.1	62.7	170
Total Dissolved Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
Total Suspended Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50

NOTES:
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.
ND - Compound not detected at or above the detection limit.
NA - Not Analyzed

Appendix B
CWTS Effluent Analytical Results - Cell 3 Effluent Data
Fort Edward Landfill
Town of Fort Edward, New York
Site #5-58-001

Analyte	Units	Cell 3 Effluent																		Criteria
		9/29/98	10/6/98	10/14/98	10/21/98	10/28/98	11/4/98	11/11/98	11/19/98	11/24/98	12/3/98	12/16/98	12/30/98	1/6/99	1/21/99	2/1/99	2/10/99	2/23/99	3/3/99	
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Chloroethane	µg/L	**2 J**	ND	**3 J**	**1 J**	ND	ND	ND	ND	ND	**1 J**	ND	ND	**2**	ND	ND	**1 J**	ND	ND	20
Carbon disulfide	µg/L	ND	ND	ND	ND	ND	**3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Methylene Chloride	µg/L	ND	ND	**5 B**	**3 JB**	**3 JB**	**3 JB**	ND	**6 B**	**1**	**5 JB**	ND	**1 JB**	**5**	**1 J**	**4 JB**	**4 JB**	ND	ND	50
1,2-Dichloroethene (Total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	30
Acetone	µg/L	ND	ND	ND	ND	ND	**14**	ND	**14**	**11**	ND	ND	**13**	ND	ND	ND	ND	ND	ND	-
Chloroform	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	**1 J**	**3 J**	6	4 J	150
2-Butanone	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	-
Bromodichloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	30
Benzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1 J**	ND	ND	**1**	ND	ND	ND	ND	ND	10
Toluene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1 J**	ND	ND	ND	ND	ND	ND	ND	ND	10
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethylbenzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Xylenes, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2 J**	ND	ND	ND	ND	ND	ND	ND	ND	10
Trichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1 J**	ND	ND	ND	ND	ND	ND	ND	ND	-
Tetrachloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Phenols, Total Phenolics	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.008
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.0-9.0
Arsenic, Total	µg/L	ND	ND	**11.8**	ND	ND	ND	ND	ND	**17.5**	ND	NA	ND	ND	ND	ND	ND	ND	ND	150
Barium, Total	µg/L	**129**	**174**	**116**	**216**	**156**	**204**	**147**	**160**	**144**	**171**	NA	**156**	**161**	**125 B**	**128**	**116**	98.6 B	84.7 B	3500
Cadmium, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	1
Chromium, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	210
Cobalt, Total	µg/L	ND	**27.2**	ND	**26.6**	**20.4**	ND	**25.3**	**30.4**	**25.4**	**24.5**	NA	**24.7**	**22.7**	**20 B**	ND	ND	ND	ND	5
Copper, Total	µg/L	ND	ND	ND	ND	ND	ND	**24.1**	ND	**17.2**	ND	NA	**18.9**	**10**	**50.8**	**13.5**	**14.6**	12.3 B	17 B	24
Iron, Total	µg/L	**5,840**	**4,620**	**3,970**	**25,100**	**3,320**	**12,300**	**5,530**	**1,240**	**499**	**7,790**	NA	**8,560**	**11,800**	**7,720**	**8,750**	**10,200**	**8,590**	**456**	300
Lead, Total	µg/L	ND	**11.7**	**6.69**	**3.42**	**3.13**	ND	**6.3**	ND	**17.7**	ND	NA	**8.1**	ND	**9.3**	ND	ND	ND	ND	3.2
Mercury, Total	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	**1.09**	ND	ND	**0.261**	ND	ND	ND	0.8
Nickel, Total	µg/L	ND	ND	ND	ND	ND	ND	**30**	**30.7**	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	9.6
Zinc, Total	µg/L	**27.6**	**26.0**	**26.6**	**396**	**43.4**	**135**	**58.4**	**29.2**	**24.3**	**66.2**	NA	**17.3**	**94.8**	**155**	**39.9**	**42**	18.9 B	54.1	170
Total Dissolved Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
Total Suspended Solids	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50

NOTES:
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
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