

Pelham Bay Landfill Monthly Report December 2003

Prepared by: Severn Trent Environmental Services January 2004



Section I - General

This monthly report covers the period from December 1, 2003 to December 31, 2003. The report contains information in accordance with Section 2.7 of the Agreement between Severn Trent Environmental Services (STES) and the NYCDEP (Agreement), and Section 5.7, Volume I of the O&M Manual for the project.



Section II- Summary of the Testing Program Results

Gannett Fleming performed the monthly gas extraction monitoring on December 19, 2003. The monitoring was performed using a Landtec gas meter. The results are provided in Appendix A. A majority of the monitoring wells were reported with no oxygen present, however, the flare was not running at the time the monitoring was performed. Refer to Section III, Recommendations for Maintenance and Repair Actions Taken, for a summary of the gas flare existing deficiencies. A summary of the monitoring is as follows:

Well No.	% Oxygen
GMW-1	0.0
GMW-2	0.0
GMW-3	0.3
GMW-4	0.0
GMW-5	0.0
GMW-6	0.5
GMW-7	0.0
GMW-8	0.0
GMW-9	0.0
GMW-10	0.0
GMW-11	0.0
GMW-12	0.0
GMW-13	0.0
GMW-14	0.0
<i>G</i> MW-15	0.0
GMW-16	0.0
GMW-17	0.0
GMW-18	0.0
GMW-19	0.0
GMW-20	0.0
GMW-21	0.1
GMW-22	0.0



At the start of this contract the flexible hoses on three of the wells were in disrepair. The hoses were replaced by STES personnel and are routinely inspected and replaced as necessary. Ideally, the oxygen concentrations in all of the wells should be 0%, however, slight fluctuations in the oxygen concentrations have been recorded in most of the wells during the previous Contract.

The groundwater motoring wells were sampled on December 7, 2003. A copy of the results is included on Appendix C.



Section III – Recommendations for Maintenance and Actions Taken

Deficiencies identified this month and recommended repair actions:

There were no new deficiencies identified in December 2003.

Repair actions performed this month on previous deficiencies:

- 1. Plumbing work for the float system for the seven pumping stations is completed. Electrical work in process.
- 2. The installation of the leachate storage tank heat tracing is complete.
- 3. Heat tracing of the exposed water main lines in the area of the Decon Trailer is complete.

Detailed discussions of the repair actions performed this month are presented in the following text.

At the start of this contract, STES personnel performed a survey of existing conditions. The detailed results of that survey are documented in the Status Report. Many deficiencies were noted in both the mechanical and non-mechanical components of the landfill system. STES recommends that all deficiencies be corrected. However, as noted in the text that follows, these deficiencies were existing conditions at the commencement of the contract. Repair actions for some deficiencies were included in Section 5.0 of the Contract. These repairs are being performed by STES. Corrective action for deficiencies, which were not included in the Scope of Work, will require NYCDEP approval, prior to repair actions being taken.

The following text contains a description of identified deficiencies and recommended repair actions or repair actions performed during this month. Deficiencies that were discussed and repaired during the previous month will not appear in this report.

Operating System - Landfill Cover System

Deficiency

There are also rusted 55-gallon drums located in the area adjacent to the Containment Sump. The drums have been onsite prior to the start of the previous STES contract. Most are empty, however, some appear to contain waste oil.



Recommended Repair Actions

STES has requested that the NYCDEP classify the 55-gallon drums. Once that is completed, STES can dispose of the non-hazardous, non-flammable drums in the onsite dumpster.

NYCDEP is aware of the abandoned truck trailer, which has been on site prior to the previous STES Contract. At the request of the NYCDEP, STES gained access to the inside of the trailer. The contents were landfill liner welding equipment, old grass seed and some miscellaneous tools. STES was not able to locate any identifying tags or plates on the trailer. NYCDEP will make the necessary arrangements for the removal of the trailer.

Operating System - Stormwater Management System

Stormwater Drainage Ditches

Deficiency

Varying degrees of silt, debris and vegetation are present in certain sections of the drainage swales. It appears that the swales are performing to design intent, which is to convey overland flow on the landfill cover to the SP manholes and baffles outlets. There was no evidence of washout.

Repair Action

Tree removal from the drainage swales will be ongoing as growth develops. Further cleaning of debris in the swales will be directed by the NYCDEP.

Baffled Outlets

Deficiency

BO1 is located on the east side of the landfill. There was approximately a foot of silt within the structure with vegetation present. Silt and rocks had plugged the weepholes. The handrails were intact, however, some of the seams were splitting.

BO2 is located in the southwest corner of the landfill. There was approximately a foot of silt within the structure with vegetation present. Silt and rocks had plugged the weepholes. The handrails were intact, however, some of the seams were splitting.

BO3 is located at Pond A. There was approximately a foot of silt within the structure with vegetation present. Silt and rocks had plugged the weepholes. The handrails were intact, however, some of the seams were splitting.

BO4 is located at Pond C. There was approximately a foot of silt within the structure with vegetation present. Silt and rocks had plugged the weepholes. The handrails were intact, however, some of the seams were splitting.



Repair Action

STES recommends cleaning out all baffled outlets in accordance with the O&M Manual. This will be performed under Section 5.0 of the Contract.

Sedimentation Ponds

Deficiency

Pond A - Silt, dense phragmite growth, and shallow standing water were present at the bottom of the pond. There was no stormwater collected in the pond therefore freeboard could not be measured. The outlet structure was in satisfactory condition.

Pond B - Several feet of flow was present in Pond B, therefore, it was not possible to view the condition of the bottom of the pond for silt or debris sediment. Phragmite growth, however, was not present. Adequate freeboard was available. There is an inlet and an outlet structure located in Pond B. Silt and debris were present in the inlet structure. The outlet structure was in satisfactory condition.

Pond C - Pond C had amounts of silt accumulation, dense phragmite growth, and shallow standing water in the bottom of the pond. There was no stormwater collected in the pond therefore freeboard could not be measured. Silt and debris were present in and around the inlet structure.

The outlet structure consists of a concrete structure with weep holes as the inlet. The outlet to the bay is a 24-inch pipe with a trash rack and flap gate. The structure appeared to be in good condition and did not have any spalling concrete present. Silt accumulation blocked the inlet weepholes. Debris and silt blockage were noted in the 24-inch outlet pipe. The flap gate and trash rack appeared to be in good working order and the riprap on the spillway was intact.

Repair Action

STES recommends cleaning the inlet and outlet structures, which have accumulation of debris. This will be performed under Section 5.0 of the Contract. The ponds, although have an accumulation of silt and phragmite growth, are performing to design intent. STES is not recommending cleaning of the ponds at this time.

Operating System - Groundwater/Leachate Collection System

Sumps and Lift Stations Deficiency

The control panel for D-1 is propped up on railroad ties and is not supported by a stationary base.



Repair Action

STES recommends the replacement of the unsteady railroad tie base used for the control panel. This work is not included in the Scope of Work and therefore must be authorized by the NYCDEP.

Deficiency

At the start of the Contract the Containment Pad sump pumps were not operational in the automatic mode due to a memory loss to the PLC. The NYCDEP has authorized the replacement of these controls with float controls. Currently the pumps are operated manually.

Repair Action

The plumbing work for the new Containment Sump float system was complete in June 2003. Electrical work is currently being performed.

<u>Deficiency</u>

At the start of the Contract the Decon Sump Pumps were not operational in the automatic mode due to a memory loss to the PLC. The NYCDEP has authorized the replacement of these controls with float controls. Currently the pumps are operated manually.

Repair Action

The plumbing work for the new Decon Sump float system was complete in June 2003. Electrical work is scheduled.

Deficiency

At the start of the Contract the D-8 pumps were not operational in the automatic mode due to a memory loss to the PLC. The NYCDEP has authorized the replacement of these controls with float controls. Currently the pumps are operated manually.

Repair Action

The plumbing work for the new D-8 Sump float system was complete in June 2003. Electrical work is scheduled

Deficiency

At the start of the Contract, the D-10 pumps were controlled by an existing float system. The NYCDEP has authorized the replacement of the existing outdated float control system with the same float controls that are being installed in all pump and lift stations. Currently the pumps are operated in the automatic mode.

Repair Action

The plumbing work for the new D-10 Sump float system was complete in June 2003. Electrical work is scheduled.



Deficiency

At the start of the Contract, Lift Station No. 2 (LS-2) pumps were not operational in the automatic mode due to a memory loss to the PLC. The NYCDEP has authorized the replacement of the control floats. Currently the pumps are operated manually.

Repair Action

The plumbing work for the new LS-2 float system was complete in June 2003. Electrical work is scheduled.

Deficiency

The control panels for the all Sump Pump Stations and Lift Stations are in a state of disrepair. The enclosures for the control panels were sized improperly. In order to view the displays in the panel a steel bar in the middle of the enclosure was removed by previous parties as it hindered opening of the control panel. Also, most of the bolts for the control panel covers have been removed and were placed inside the panel enclosure. This was done by previous parties in order to view the inside of the control panel. This is necessary to view the elapsed time meters.

Recommended Repair Action

STES is not recommending that the enclosure be repaired at this time. Access to the inside of the panel is required to complete the equipment inspections. New enclosures would be extremely costly to purchase and install and are not recommend at this time.

Deficiency

It appears that the integrity of all butterfly valves (BFV) on the leachate storage tank piping on both the truck discharge line and discharge line to D-1 is questionable. The BFVs on the truck fill line were closed, however, the ball valve at the end of the line was leaking. It is assumed that this line was charged and there was pressure on that valve. It was noted that the equalization line to Tank No. 4 was leaking at the connection to the tank. Operators maintain the tank levels below this point to avoid leaks.

Recommended Repair Action

The ball valve must be replaced or the line should be capped. The leak at the equalization line should be repaired. This work is not included in the Scope of Work and therefore must be authorized by the NYCDEP.



Operating System - Landfill Gas System

Deficiency

The NYCDEP is aware of several pre-existing gas flare system deficiencies. These repairs include the following: purchase and installation of a new transformer, blowers and re-piping the gas condensate discharge. In addition, AXD, the flare manufacturer, has recommended that they conduct a site inspection to evaluate the starters prior to the installation of the new transformers.

Additional gas flare system deficiencies have been identified by STES. The pressure and temperature gauges had been removed from the discharge piping. NYCDEP informed STES that the gauges were stolen. NYCDEP had the piping holes patched as a temporary corrective action.

Recommended Repair Action

Change Order No. X-1 was added to the Contract for the purpose of allowing AXD/Link Controls to perform a site visit and inspect the existing operation of the gas flare system. This site visit was performed on June 18, 2003. AXD concluded that the new auto transformer kits, as ordered under Section 5.0 of the Contract Specifications, contain all parts needed for the complete overhaul of the controls. A copy of the field inspection is provided in Attachment A of this report.

The existing gas flare system has a gas condensate discharge line that is piped to discharge into manhole D-2. AXD recommended the installation of a mist eliminator upstream of the gas inlet to the blowers in addition to the existing condensate discharge. The purchase and installation of a mist eliminator is not part of the Contract Specifications. However, the installation of a mist eliminator is required for the warranty to be effective for the new blowers. With this knowledge and in the essence of time, STES ordered a mist eliminator while ordering the Contract specified blowers. Delivery of the two new blowers and mist eliminator occurred on June 25, 2003. The equipment is presently stored in the onsite trailers.

At this time STES has requested a design from the NYCDEP for the installation of the mist eliminator. The design will be incorporated into a Change Order to perform the out-of-scope work for the purchase and installation of the mist eliminator.

Operating System - Ancillary System

Deficiency

There are several openings in the fence along the perimeter of the landfill. Past repairs have been made, however the vandalism continues. The cutouts are mostly made to provide shortcuts along the shoreline for people to fish.

Recommended Repair Action

A NYCDEP subcontractor independent of the STES contract provides the landfill security.



Diligent efforts must be made by the security personnel to deter this type of activity.

Deficiency

There are at least 3 open cut 3-inch PVC pipes protruding vertically above grade in the vicinity of the removed trailer complex. Evidently these pipes were part of the waste discharge system from the trailer complex. The pipes lead to a header which leads to the on site septic tank. The septic tank is accessible by an onsite manhole. At the start of this Contract, the septic tank was overflowing. There is also an upgrade charged water line in the area.

Recommended Repair Action

The septic tank should be pumped out. The abandoned waste lines should be capped off. The water line should be decommissioned. This work is not included in the Scope of Work and therefore must be authorized by the NYCDEP.

<u>Deficiency</u>

The main alarm panel, located in the guard's trailer on the site, does not work.

Recommended Repair Action

This system should be repaired. This work will require authorization from the NYCDEP, as it is an existing condition and not included in the scope of work.



Section IV - Evaluation of Site Operations

Site operations for this period consisted of completing the bi-weekly and monthly inspections. The inspections performed during this period did not uncover any new deficiencies. Please refer to Section III for a discussion of the existing deficiencies. Copies of the inspection checklists for the month of December 2003 are located in Appendix B of this report. A copy of the logbook for December 2003 is included in Appendix C.

Correspondence for the month of December 2003 is included in Attachment A, General Correspondence.

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Appendix A – Summary of Laboratory Analysis



This PDF File was created for you as a service of Severn Trent Laboratories

PRELIMINARY REPORT

ANALYTICAL REPORT

JOB NUMBER: 231702

Prepared For:

STES - Glen Cove 100 Morris Avenue Glen Cove, NY 11542

Attention: Joe Covati

Date: 02/16/2004

Signature

Name: Christine M. Shrader

Title: Project Manager

E-Mail: cshrader@stl-inc.com

Date

315 Fullerton Avenue Newburgh, NY 12550

PHONE: (845) 562-0890 FAX..: (845) 562-0841

SAMPLE INFORMATION Date: 02/16/2004

Job Mumber:: 231702 Customer...: STES - Glen Cove Attn....: Joe Covati

Project Number....: 20000073 Customer Project ID...: PELHAM BAY Project Description...: Pelham Bay

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
231702-1	MW 104	Water	12/16/2003	00:00	12/18/2003	10:00
231702-2	MW 109	Water	12/16/2003	00:00	12/18/2003	10:00
231702-3	MW 119	Water	12/16/2003	00:00	12/18/2003	10:00
231702-4	MW 120	Water	12/16/2003	00:00	12/18/2003	10:00
231702-5	MW 120B	Water	12/16/2003	00:00	12/18/2003	10:00
231702-6	MW 121	Water	12/16/2003	00:00	12/18/2003	10:00
231702-7	MW 122	Water	12/16/2003	00:00	12/18/2003	10:00

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 104
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-1 Date Received....: 12/18/2003 Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEC
EPA 200.7	Acid Digestion (ICP)	Complete	Ī			Text	12/19/03	cmp
EPA 270.2	Selenium (Se)	200	ļυ		200	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.20	U		0.20	ug/L	12/22/03	1ms
SM18 4500CNE	Cyanide, Total	0.0100	U		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	ממממממממממממממ		0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smot smot smot smot smot smot smot smot
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (X) Sodium (Na) Silver (Ag)	1130 300 50.0 1000 25.0 25.0 395000 50.0 250 125 3560 19.9 984000 50.0 200 500000 11000000 50.0	ם ממם ממממם		1000 300 50.0 1000 25.0 25.0 25000 50.0 250 125 500 15.0 25000 50.0 200 50000 50.0 200 50000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mai

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 104
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-1
Date Received.....: 12/18/2003
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEC
	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	mad
	Vanadium (V)	250	U		250	ug/L	01/07/04	mad
	Zinc (Zn)	100	U		100	ug/L	01/07/04	
SW846 8270C	Semivolatile Organics		į					İ
	n-Nitrosodimethylamine	enviroform			10.	ug/L		mmb
	Phenol	enviroform		I	10.	ug/L	!	mmb
	Bis(2-chloroethyl)ether	enviroform	-		10.	ug/L		mmb
	1,3-Dichlorobenzene	enviroform			10.	ug/L		mmb
	1,4-Dichlorobenzene	enviroform	- 1		10.	ug/L		mmk
	1,2-Dichlorobenzene	enviroform			10.	ug/L	1	mmk
	Benzyl alcohol	enviroform	-		10.	ug/L		mmb
	2-Methylphenol (o-cresol)	enviroform	1		10.	ug/L		mmb
	2,2-oxybis (1-chloropropane)	enviroform		!	10.	ug/L	!	mmk
	n-Nitroso-di-n-propylamine	enviroform			10.	ug/L		mmk
	Hexachloroethane	enviroform			10.	ug/L		mmk
	4-Methylphenol (m/p-cresol)	enviroform			10.	ug/L		mmk
	2-Chlorophenol	enviroform			10.	ug/L	!	mmk
	Nitrobenzene	enviroform		ļ	10.	ug/L		mmk
	Bis(2-chloroethoxy)methane	enviroform	-		10.	ug/L		mmk
	1,2,4-Trichlorobenzene	enviroform			10.	ug/L	1	mmk
	Isophorone	enviroform		!	10.	uq/L		mmk
	2,4-Dimethylphenol	enviroform			10.	uq/L		mmk
	Hexachlorobutadiene	enviroform			10.	uq/L		mmk
	Naphthalene	enviroform	1		10.	ug/L	!	mmk
	2,4-Dichlorophenol	enviroform		1	10.	ug/L	!	mmk
	4-Chloroaniline	enviroform	1		10.	uq/L		mmk
	2,4,6-Trichlorophenol	enviroform	-		10.	uq/L	1	mmk
	2,4,5-Trichlorophenol	enviroform	ļ		50.	uq/L		mmk
	Hexachlorocyclopentadiene	enviroform		į	10.	uq/L	1	mmk
	2-Methylnaphthalene	enviroform		ļ	10.	ug/L	!	mm
	2-Nitroaniline	enviroform	- !		25.	uq/L	!	mml
	2-Chloronaphthalene	enviroform	- !		10.	uq/L		mml
	4-Chloro-3-methylphenol	enviroform	-		10.	uq/L	1	mm
	2,6-Dinitrotoluene	enviroform		!	10.	uq/L		mm
	2-Nitrophenol	enviroform			10.	ug/L		mm
	3-Nitroaniline	enviroform		1	25	ug/L	1	mml
	Dimethyl phthalate	enviroform	ļ		10.	uq/L		mml
	2,4-Dinitrophenol	enviroform			25	ug/L	!	mml
	Acenaphthylene	enviroform			10.	ug/L		mmk
	2,4-Dinitrotoluene	enviroform			10.	ug/L		mmi
	Acenaphthene	enviroform	-		10.	ug/L		mmi
	Dibenzofuran	enviroform	-		10.	ug/L		mmk
	4-Nitrophenol	enviroform			25.	ug/L		mmi
	Fluorene	enviroform			10.	ug/L		mm
	4-Nitroaniline	enviroform			25.	ug/L		mm
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L		mmi
	Hexachlorobenzene	enviroform			10.	ug/L		mmi
	Diethyl phthalate	enviroform			10.	ug/L		mmk
	Diethyl phthalate	enviroform		 	10.	_,		

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATTN: Joe Covati

Customer Sample ID: MW 104
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-1
Date Received.....: 12/18/2003
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEX
	4-Chlorophenyl phenyl ether	enviroform			10.	ug/L		mmk
	Pentachlorophenol	enviroform			25.	ug/L		mm
	n-Nitrosodiphenylamine	enviroform	!		10.	uq/L		mmk
	4,6-Dinitro-2-methylphenol	enviroform		ļ	25.	ug/L		mmi
	Phenanthrene	enviroform			10.	ug/L	ļ	mml
	Anthracene	enviroform		ļ	10.	uq/L	ļ	mmi
	Di-n-butvl phthalate	enviroform			10.	ug/L		mmi
	Fluoranthene	enviroform			10.	ug/L		mm
		enviroform			10.	ug/L		mu
	Pyrene	enviroform			10.	ug/L ug/L		m
	Butyl benzyl phthalate	enviroform	1		10.		1	1
	Benzo (a) anthracene		İ			ug/L	i	1
	Chrysene	enviroform	ì	İ	10.	ug/L	i	m
	3,3-Dichlorobenzidine	enviroform	İ		10.	ug/L		m
	Bis(2-ethylhexyl)phthalate	enviroform		İ	10.	ug/L	i	m
	Di-n-octyl phthalate	enviroform	1	ì	10.	ug/L		m
	Benzo(b) fluoranthene	enviroform	1		10.	ug/L	ł	m
	Benzo(k) fluoranthene	enviroform	-		10.	ug/L	l	m
	Benzo (a) pyrene	enviroform	1		10.	ug/L	ł	ļπ
	Indeno(1,2,3-cd)pyrene	enviroform			10.	ug/L	!	m
	Dibenzo (a, h) anthracene	enviroform		1	10.	ug/L		m
	Benzo(ghi)perylene	enviroform			10.	ug/L		m
7846 8260B	Volatile Organics							İ
	Chloromethane	enviro	- 1		10.0	ug/L	12/26/03	a
	Vinyl chloride	enviro			10.0	uq/L	12/26/03	la
	Bromomethane	enviro	-		10.0	uq/L	12/26/03	la
	Chloroethane	enviro		1	10.0	uq/L	12/26/03	
	1.1-Dichloroethene	enviro			10.0	uq/L	12/26/03	
	Carbon disulfide	enviro			10.0	ug/L	12/26/03	
	Acetone	enviro			10.0	uq/L	12/26/03	
	Methylene chloride	enviro			10.0	ug/L	12/26/03	
	1.1-Dichloroethane	enviro	1		10.0	ug/L	12/26/03	
	_,	enviro		İ	10.0			
	Vinyl acetate	enviro	İ			ug/L	12/26/03	
	2-Butanone (MEK)	enviro	İ	İ	10.0	ug/L	12/26/03	
	Chloroform		İ		10.0	ug/L	12/26/03	
	1,1,1-Trichloroethane	enviro	İ	İ	10.0	ug/L	12/26/03	
	Carbon tetrachloride	enviro	İ		10.0	ug/L	12/26/03	
	1,2-Dichloroethene (total)	enviro		i	10.0	ug/L	12/26/03	
	Benzene	enviro		ì	10.0	ug/L	12/26/03	
	1,2-Dichloroethane	enviro			10.0	ug/L	12/26/03	
	Trichloroethene	enviro			10.0	ug/L	12/26/03	
	1,2-Dichloropropane	enviro	1		10.0	ug/L	12/26/03	
	Bromodichloromethane	enviro			10.0	ug/L	12/26/03	a
	2-Chloroethylvinylether	enviro			10.0	ug/L	12/26/03	a
	cis-1,3-Dichloropropene	enviro			10.0	ug/L	12/26/03	la
	4-Methyl-2-pentanone (MIBK)	enviro			10.0	uq/L	12/26/03	
	Toluene	enviro			10.0	uq/L	12/26/03	
	trans-1,3-Dichloropropene	enviro			10.0	ug/L	12/26/03	
	1,1,2-Trichloroethane	enviro			10.0	ug/L	12/26/03	
	1,1,2 11101101000111110				10.0	49/1	12/20/03	1
			1					1

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATIN: Joe Covati

Customer Sample ID: MW 104
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-1
Date Received.....: 12/18/2003
Time Received.....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	T
_	Tetrachloroethene	enviro			10.0	ug/L	12/26/03	ar
	2-Hexanone	enviro		į	10.0	ug/L	12/26/03	lar
	Dibromochloromethane	enviro	-	!	10.0	ug/L	12/26/03	
	Chlorobenzene	enviro			10.0	ug/L	12/26/03	
	Ethylbenzene	enviro	ļ		10.0	ug/L	12/26/03	
	Styrene	enviro	1		10.0	ug/L	12/26/03	la
	Bromoform	enviro	- !		10.0	ug/L	12/26/03	
	1,1,2,2-Tetrachloroethane	enviro		İ	10.0	ug/L	12/26/03	
	Xylenes (total)	enviro			10.0	ug/L	12/26/03	
	1,3-Dichlorobenzene	enviro			10.0	ug/L	12/26/03	1
	1,4-Dichlorobenzene	enviro			10.0	ug/L	12/26/03	
		enviro			10.0	ug/L	12/26/03	1
	1,2-Dichlorobenzene	enviro		1	10.0	ug/L	12/26/03	'l'
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 109
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-2 Date Received....: 12/18/2003 Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	стр
EPA 270.2	Selenium (Se)	25.0	U		25.0	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.20	U		0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	l U		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smo smo smo smo smo smo smo smo smo smo
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Silver (Ag)	1000 300 50.0 1000 25.0 25.0 189000 50.0 250 125 1620 15.0 34900 538 200 25000 25000 50.0	ממממ מ מממ מעממממ	E E N	1000 300 50.0 1000 25.0 25.0 25000 50.0 250 125 500 15.0 25000 50.0 200 25000 25000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mad mad mad mad mad mad mad mad mad mad

^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 109
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-2 Date Received....: 12/18/2003 Time Received....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TE
<u>-</u>	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	ma
	Vanadium (V)	250	ļυ		250	ug/L	01/07/04	ma
	Zinc (Zn)	100	U		100	ug/L	01/07/04	ma
846 8270C	Semivolatile Organics			İ			İ	1
	n-Nitrosodimethylamine	enviroform		!	10.	ug/L		m
	Phenol	enviroform			10.	ug/L		m
	Bis(2-chloroethyl)ether	enviroform	1		10.	ug/L		π
	1.3-Dichlorobenzene	enviroform			10.	uq/L		m
	1.4-Dichlorobenzene	enviroform	1		10.	uq/L		m
	1.2-Dichlorobenzene	enviroform		!	10.	uq/L		m
	Benzyl alcohol	enviroform			10.	ug/L	!	m
	2-Methylphenol (o-cresol)	enviroform	ļ		10.	ug/L		m
	2,2-oxybis (1-chloropropane)	enviroform	1	ļ	10.	ug/L	ļ	m
	n-Nitroso-di-n-propylamine	enviroform		ļ	10.	ug/L	ļ	m
	Hexachloroethane	enviroform			10.	ug/L		ļ"
	4-Methylphenol (m/p-cresol)	enviroform		ļ	10.	ug/L		n
	2-Chlorophenol	enviroform			10.	ug/L		π
	Nitrobenzene	enviroform			10.	ug/L		n
	Bis (2-chloroethoxy) methane	enviroform	-		10.	ug/L		ļ,
	1,2,4-Trichlorobenzene	enviroform			10.	ug/L		ļ,
	Isophorone	enviroform	i		10.	ug/L		l'u
		enviroform	-		10.	ug/L		ľ
	2,4-Dimethylphenol	enviroform	ĺ	1	10.	ug/L ug/L		n
	Hexachlorobutadiene	enviroform		1	10.			"
	Naphthalene	enviroform	ĺ	İ		ug/L	İ	1.
	2,4-Dichlorophenol		i	i	10.	ug/L	İ	t
	4-Chloroaniline	enviroform	İ		10.	ug/L	i	n
	2,4,6-Trichlorophenol	enviroform	İ		10.	ug/L	İ	n
	2,4,5-Trichlorophenol	enviroform	i		50.	ug/L	İ	n
	Hexachlorocyclopentadiene	enviroform	ì		10.	ug/L		r
	2-Methylnaphthalene	enviroform	i	l	10.	ug/L	i	ļτ
	2-Nitroaniline	enviroform		1	25.	ug/L	1	¦τ
	2-Chloronaphthalene	enviroform	- 1		10.	ug/L	1	¦η
	4-Chloro-3-methylphenol	enviroform	1	l	10.	ug/L	1	r
	2,6-Dinitrotoluene	enviroform	i		10.	ug/L		t
	2-Nitrophenol	enviroform	i		10.	ug/L		ľ
	3-Nitroaniline	enviroform	1	i	25	ug/L		T
	Dimethyl phthalate	enviroform	l	l	10.	ug/L		r
	2,4-Dinitrophenol	enviroform			25	ug/L		t
	Acenaphthylene	enviroform	i		10.	ug/L		ł۳
	2,4-Dinitrotoluene	enviroform	1	l	10.	ug/L	İ	r
	Acenaphthene	enviroform			10.	ug/L	1	n
	Dibenzofuran	enviroform	i		10.	ug/L]	ļτ
	4-Nitrophenol	enviroform			25.	ug/L		r
	Fluorene	enviroform			10.	ug/L		ľ
	4-Nitroaniline	enviroform			25.	ug/L		r
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L		t
	Hexachlorobenzene	enviroform			10.	ug/L		r
	Diethyl phthalate	enviroform	1		10.	ug/L		'n

^{*} In Description = Dry Wgt.

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATIN: Joe Covati

Customer Sample ID: MW 109
Date Sampled. . . . : 12/16/2003
Time Sampled. . . . : 00:00
Sample Matrix. . . : Water

Laboratory Sample ID: 231702-2 Date Received.....: 12/18/2003 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZEI) 1
	4-Chlorophenyl phenyl ether	enviroform			10.	ug/L		n
	Pentachlorophenol	enviroform			25.	ug/L		n
	n-Nitrosodiphenylamine	enviroform	-	}	10.	uq/L		n
	4,6-Dinitro-2-methylphenol	enviroform			25.	uq/L		ļτ
	Phenanthrene	enviroform	- !	ļ	10.	uq/L	ļ	Ι,
	Anthracene	enviroform	1		10.	ug/L		- 1
	Di-n-butyl phthalate	enviroform			10.	ug/L	ļ	1
	Fluoranthene	enviroform			10.	ug/L		
	Pyrene	enviroform			10.	ug/L	Į	-
	Butyl benzyl phthalate	enviroform			10.	ug/L ug/L		
		enviroform	ĺ		10.		ĺ	
	Benzo (a) anthracene	enviroform	İ	İ	10.	ug/L	į	į
	Chrysene		ì	İ		ug/L	İ	i
	3,3-Dichlorobenzidine	enviroform	İ	İ	10.	ug/L	į	i
	Bis(2-ethylhexyl)phthalate	enviroform	İ	Ì	10.	ug/L	İ	i
	Di-n-octyl phthalate	enviroform	i		10.	ug/L		
	Benzo(b) fluoranthene	enviroform	i	i	10.	ug/L	i	
	Benzo(k) fluoranthene	enviroform		1	10.	ug/L	1	
	Benzo (a) pyrene	enviroform	-		10.	ug/L	ŀ	
	Indeno(1,2,3-cd)pyrene	enviroform	-	1	10.	ug/L		
	Dibenzo(a,h)anthracene	enviroform	-	1	10.	ug/L	-	
	Benzo(ghi)perylene	enviroform			10.	ug/L		
346 8260B	Volatile Organics		į				į	į
	Chloromethane	enviro	-	!	10.0	uq/L		
	Vinvl chloride	enviro	ļ		10.0	uq/L	ļ	
	Bromomethane	enviro	ļ		10.0	ug/L		
	Chloroethane	enviro		!	10.0	ug/L		
	1.1-Dichloroethene	enviro			10.0	ug/L	1	
	Carbon disulfide	enviro			10.0	ug/L		
	Acetone	enviro	1		10.0	ug/L		
	Methylene chloride	enviro			10.0	ug/L		
	1.1-Dichloroethane	enviro			10.0	ug/L ug/L		
	Vinvl acetate	enviro			10.0	ug/L ug/L		
	2-Butanone (MEK)	enviro	ĺ		10.0		į	
			İ	İ		ug/L	i	
	Chloroform	enviro enviro	İ	İ	10.0	ug/L		
	1,1,1-Trichloroethane				10.0	ug/L		
	Carbon tetrachloride	enviro	i	İ	10.0	ug/L		
	1,2-Dichloroethene (total)	enviro			10.0	ug/L		
	Benzene	enviro		i	10.0	ug/L	i	
	1,2-Dichloroethane	enviro		i	10.0	ug/L		
	Trichlorcethene	enviro	i		10.0	ug/L		
	1,2-Dichloropropane	enviro	ĺ		10.0	ug/L		
	Bromodichloromethane	enviro			10.0	ug/L		
	2-Chloroethylvinylether	enviro		1	10.0	ug/L		
	cis-1,3-Dichloropropene	enviro			10.0	ug/L		
	4-Methyl-2-pentanone (MIBK)	enviro		1	10.0	ug/L		
	Toluene	enviro			10.0	ug/L		
	trans-1,3-Dichloropropene	enviro			10.0	ug/L		
	1,1,2-Trichloroethane	enviro			10.0	ug/L		- 1

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATIN: Joe Covati

Customer Sample ID: MW 109
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-2 Date Received....: 12/18/2003 Time Received....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TE
	Tetrachloroethene	enviro			10.0	ug/L		am
	2-Hexanone	enviro			10.0	ug/L	1	am
	Dibromochloromethane	enviro			10.0	ug/L		lan
	Chlorobenzene	enviro	1	!	10.0	ug/L		an
	Ethylbenzene	enviro			10.0	ug/L	!	ar
	Styrene	enviro	-		10.0	ug/L	1	a
	Bromoform	enviro	1	!	10.0	ug/L		a
	1,1,2,2-Tetrachloroethane	enviro			10.0	ug/L		a
	Xylenes (total)	enviro			10.0	ug/L		a
	1,3-Dichlorobenzene	enviro			10.0	ug/L		a
	1,4-Dichlorobenzene	enviro			10.0	ug/L		a
		enviro						
	1,2-Dichlorobenzene	enviro	İ	İ	10.0	ug/L	İ	a
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 119
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-3 Date Received....: 12/18/2003 Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEC
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	cmp
EPA 270.2	Selenium (Se)	200	U		200	ug/L	01/13/04	mwł
EPA 245.1	Mercury (Hg)	0.20	U		0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	U		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	מממממממממממממ		0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smot smot smot smot smot smot smot smot
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Silver (Ag)	1000 300 50.0 1000 25.0 25.0 530000 50.0 250 125 5020 15.0 1150000 992 200 500000 11600000 50.0	ם ממח מחח מחח	E E N	1000 300 50.0 1000 25.0 25.0 25000 50.0 250 125 500 15.0 25000 50.0 200 500000 250000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mai mai mai mai mai mai mai mai mai mai

^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 119
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-3
Date Received.....: 12/18/2003
Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEX
	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	mac
	Vanadium (V)	250	ប		250	ug/L	01/07/04	mac
	Zinc (Zn)	100	U		100	ug/L	01/07/04	mac
W846 8270C	Semivolatile Organics		-					
	n-Nitrosodimethylamine	enviroform		1	10.	ug/L		mmk
	Phenol	enviroform	-		10.	ug/L		mm
	Bis (2-chloroethyl) ether	enviroform			10.	ug/L		mmi
	1,3-Dichlorobenzene	enviroform			10.	ug/L	I	III
	1,4-Dichlorobenzene	enviroform	- 1	i	10.	ug/L		m
	1,2-Dichlorobenzene	enviroform	-		10.	ug/L		mm
	Benzyl alcohol	enviroform	-	!	10.	ug/L		mm
	2-Methylphenol (o-cresol)	enviroform	- {		10.	ug/L		mm
	2,2-oxybis (1-chloropropane)	enviroform	- 1		10.	ug/L		mm
	n-Nitroso-di-n-propylamine	enviroform		1	10.	ug/L		m
	Hexachloroethane	enviroform	-		10.	ug/L	1	m
	4-Methylphenol (m/p-cresol)	enviroform	-	!	10.	ug/L		m
	2-Chlorophenol	enviroform		!	10.	ug/L		m
	Nitrobenzene	enviroform	-		10.	ug/L		m
	Bis(2-chloroethoxy)methane	enviroform			10.	uq/L		m
	1,2,4-Trichlorobenzene	enviroform		ļ	10.	ug/L		m
	Isophorone	enviroform			10.	uq/L		m
	2,4-Dimethylphenol	enviroform			10.	ug/L		m
	Hexachlorobutadiene	enviroform		ļ	10.	ug/L		m
	Naphthalene	enviroform			10.	uq/L		m
	2,4-Dichlorophenol	enviroform			10.	ug/L		m
	4-Chloroaniline	enviroform	!		10.	ug/L		m
	2,4,6-Trichlorophenol	enviroform	ļ		10.	ug/L		m
	2,4,5-Trichlorophenol	enviroform	-		50.	ug/L		m
	Hexachlorocyclopentadiene	enviroform			10.	ug/L		m
	2-Methylnaphthalene	enviroform			10.	ug/L		m
	2-Nethymaphthalene	enviroform			25.	ug/L		m
	2-Chloronaphthalene	enviroform			10.	ug/L		m
	4-Chloro-3-methylphenol	enviroform			10.	ug/L		lm
	2,6-Dinitrotoluene	enviroform			10.	ug/L		m
	2-Nitrophenol	enviroform	ĺ	-	10.	ug/L		m
	3-Nitroaniline	enviroform			25	ug/L		m
		enviroform			10.	ug/L		m
	Dimethyl phthalate	enviroform	ĺ		25	ug/L		I
	2,4-Dinitrophenol	enviroform			10.			m
	Acenaphthylene	enviroform	İ	İ	10.	ug/L		
	2,4-Dinitrotoluene	enviroform	İ	ĺ		ug/L	1	m
	Acenaphthene	-	İ		10.	ug/L		m
	Dibenzofuran	enviroform	i	ĺ	10.	ug/L		m
	4-Nitrophenol	enviroform	İ		25.	ug/L		m
	Fluorene	enviroform		İ	10.	ug/L	1	m
	4-Nitroaniline	enviroform	i		25.	ug/L		m
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L	i	m
	Hexachlorobenzene	enviroform			10.	ug/L		m
	Diethyl phthalate	enviroform		1	10.	uq/L		m

TEST RESULTS LABORATORY

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 119
Date Sampled. . . . : 12/16/2003
Time Sampled. . . . : 00:00
Sample Matrix. . . : Water

Laboratory Sample ID: 231702-3
Date Received....: 12/18/2003
Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	T
	4-Chlorophenyl phenyl ether	enviroform			10.	ug/L		π
	Pentachlorophenol	enviroform	1		25.	ug/L		π
	n-Nitrosodiphenylamine	enviroform			10.	ug/L		π
	4,6-Dinitro-2-methylphenol	enviroform			25.	ug/L		π
	Phenanthrene	enviroform	-		10.	ug/L		π
	Anthracene	enviroform	-		10.	ug/L		n
	Di-n-butyl phthalate	enviroform		ļ	10.	ug/L		T
	Fluoranthene	enviroform			10.	ug/L		ļ,
	Pyrene	enviroform	1		10.	ug/L		1
	Butyl benzyl phthalate	enviroform		!	10.	uq/L		1
	Benzo (a) anthracene	enviroform			10.	uq/L		ļ
	Chrysene	enviroform			10.	uq/L	ļ	ļ
	3,3-Dichlorobenzidine	enviroform			10.	ug/L		ļ
	Bis (2-ethylhexyl) phthalate	enviroform	-	İ	10.	ug/L	!	1
	Di-n-octyl phthalate	enviroform	-		10.	ug/L		
	Benzo (b) fluoranthene	enviroform		1	10.	ug/L		ļ
	Benzo (k) fluoranthene	enviroform			10.	ug/L		- 1
	Benzo (a) pyrene	enviroform			10.	ug/L		l
	Indeno(1,2,3-cd)pyrene	enviroform			10.	ug/L ug/L	1	
	Dibenzo (a, h) anthracene	enviroform	ĺ		10.	ug/L ug/L	İ	İ
	Benzo (ghi) perylene	enviroform		1	10.		İ	- 1
	Berizo (gni) peryrene	enviroion			10.	ug/L	ļ	l
846 8260B	Volatile Organics		1	I				
	Chloromethane	enviro	-	1	10.0	ug/L		ł
	Vinyl chloride	enviro	l	1	10.0	ug/L		l
	Bromomethane	enviro	-	 	10.0	ug/L	1	1
	Chloroethane	enviro	-	ŀ	10.0	ug/L	!	1
	1,1-Dichloroethene	enviro	1	1	10.0	ug/L		1
	Carbon disulfide	enviro	-	1	10.0	ug/L	1	l
	Acetone	enviro		!	10.0	ug/L		ļ
	Methylene chloride	enviro		l	10.0	uq/L		!
	1,1-Dichloroethane	enviro	-	1	10.0	uq/L		ļ
	Vinyl acetate	enviro	-		10.0	uq/L		ļ
	2-Butanone (MEK)	enviro		!	10.0	ug/L		1
	Chloroform	enviro		ļ	10.0	uq/L		
	1,1,1-Trichloroethane	enviro	-		10.0	ug/L	1	ļ
	Carbon tetrachloride	enviro	-		10.0	uq/L	!	ļ
	1,2-Dichloroethene (total)	enviro			10.0	ug/L		ļ
	Benzene	enviro		!	10.0	ug/L		!
	1,2-Dichloroethane	enviro		ļ	10.0	uq/L	!	ļ
	Trichloroethene	enviro		!	10.0	uq/L		ļ
	1,2-Dichloropropane	enviro			10.0	ug/L		
	Bromodichloromethane	enviro			10.0	ug/L	!	ļ
	2-Chloroethylvinylether	enviro			10.0	ug/L		I
	cis-1,3-Dichloropropene	enviro			10.0	ug/L		ľ
	4-Methyl-2-pentanone (MIBK)	enviro			10.0	ug/L		ļ
	Toluene	enviro			10.0	ug/L		ļ
	trans-1,3-Dichloropropene	enviro			10.0	ug/L		-
	1,1,2-Trichloroethane	enviro			10.0	٠,		-1
	1,1,2-111CHIOLOGCHAIRE	GINITO	İ	İ	10.0	ug/L	i	ł

RESULTS LABORATORY TEST

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATTN: Joe Covati

Customer Sample ID: MW 119
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-3
Date Received....: 12/18/2003
Time Received....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TE
	Tetrachloroethene	enviro			10.0	ug/L		am
	2-Hexanone	enviro			10.0	ug/L	1	am
	Dibromochloromethane	enviro	-		10.0	ug/L		an
	Chlorobenzene	enviro	1		10.0	ug/L	!	ar
	Ethylbenzene	enviro	-		10.0	ug/L	!	ar
	Styrene	enviro		1	10.0	ug/L		aı
	Bromoform	enviro			10.0	ug/L	1	aı
	1,1,2,2-Tetrachloroethane	enviro		ļ	10.0	ug/L	1	a
	Xylenes (total)	enviro			10.0	ug/L	1	a
	1,3-Dichlorobenzene	enviro			10.0	ug/L	İ	a
	1,4-Dichlorobenzene	enviro			10.0	ug/L		a
	1,4-Dichlorobenzene	enviro			10.0			
	1,2-Dichlorobenzene	enviio			10.0	ug/L		a
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^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-4 Date Received....: 12/18/2003 Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECI
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	cump
EPA 270.2	Selenium (Se)	200	ט		200	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.20	ט		0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	Ū		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	ממממממממממממממ		0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smo smo smo smo smo smo smo smo smo smo
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Silver (Ag)	1000 300 50.0 1000 25.0 25.0 804000 50.0 250 125 3860 15.0 748000 1640 200 250000 9540000	ם מם מ מממממ	E E N	1000 300 50.0 1000 25.0 25.0 25.00 50.0 250 125 500 15.0 25000 50.0 200 25000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mad mad mad mad mad mad mad mad mad mad

^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-4
Date Received....: 12/18/2003
Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	
	Vanadium (V)	250	ļυ		250	ug/L	01/07/04	
	Zinc (Zn)	100	U		100	ug/L	01/07/04	mad
SW846 8270C	Semivolatile Organics							
	n-Nitrosodimethylamine	enviroform	i.		10.	ug/L		mmb
	Phenol	enviroform	ì		10.	ug/L		mmb
	Bis(2-chloroethyl)ether	enviroform	i	i	10.	ug/L	i	mmb
	1,3-Dichlorobenzene	enviroform		i	10.	ug/L	i	mmb
	1,4-Dichlorobenzene	enviroform		i	10.	ug/L		mmb
	1,2-Dichlorobenzene	enviroform	ì		10.	ug/L		mmb
	Benzyl alcohol	enviroform	i	i	10.	ug/L		mmb
	2-Methylphenol (o-cresol)	enviroform	i	i	10.	ug/L	i	mmb
	2,2-oxybis (1-chloropropane)	enviroform	i	i	10.	ug/L	i	mmb
	n-Nitroso-di-n-propylamine	enviroform	1		10.	ug/L	i	mmb
	Hexachloroethane	enviroform	İ		10.	ug/L	i	mmb
	4-Methylphenol (m/p-cresol)	enviroform	i		10.	ug/L		mmb
	2-Chlorophenol	enviroform	ì	İ	10.	ug/L		mmb
	Nitrobenzene	enviroform	1	i	10.	ug/L		mmb
	Bis(2-chloroethoxy)methane	enviroform	i		10.	ug/L	i	mmb
	1,2,4-Trichlorobenzene	enviroform	i		10.	ug/L	i	mmb
	Isophorone	enviroform	1		10.	ug/L	ŀ	mmb
	2,4-Dimethylphenol	enviroform			10.	ug/L	1	mmb
	Hexachlorobutadiene	enviroform	i		10.	ug/L		mmb
	Naphthalene	enviroform	i		10.	ug/L		mmb
 	2,4-Dichlorophenol	enviroform	i		10.	ug/L	i	mmb
 	4-Chloroaniline	enviroform	i	i	10.	ug/L		mmb
	2,4,6-Trichlorophenol	enviroform			10.	ug/L		mmb
	2,4,5-Trichlorophenol	enviroform	1		50.	ug/L	i	mmb
	Hexachlorocyclopentadiene	enviroform	ì		10.	ug/L	i	mmb
	2-Methylnaphthalene	enviroform	i		10.	ug/L	i	mmb
	2-Nitroaniline	enviroform	i		25.	ug/L	1	mmb
	2-Chloronaphthalene	enviroform	i	i	10.	ug/L		mmb
	4-Chloro-3-methylphenol	enviroform	i	į.	10.	ug/L		mmb
	2,6-Dinitrotoluene	enviroform	1	i	10.	ug/L	ĺ	mmb
	2-Nitrophenol	enviroform	İ	İ	10.	ug/L		mmb
	3-Nitroaniline	enviroform	İ	i	25	ug/L		mmb
	Dimethyl phthalate	enviroform	i	i	10.	ug/L		mmb
	2,4-Dinitrophenol	enviroform	İ		25	ug/L	İ	mmb
	Acenaphthylene	enviroform	İ		10.	ug/L	i	mmlo
	2,4-Dinitrotoluene	enviroform enviroform	İ		10.	ug/L	i	mmb
	Acenaphthene		İ	İ	10.	ug/L	İ	mmb
	Dibenzofuran	enviroform enviroform	ĺ		10. 25.	ug/L	İ	mmb
	4-Nitrophenol Fluorene	enviroform	ĺ		25. 10.	ug/L	İ	mmb
	4-Nitroaniline	enviroform			25.	ug/L		******
		enviroform	ĺ		10.	ug/L		mmb
	4-Bromophenyl phenyl ether Hexachlorobenzene	enviroform	ĺ			ug/L		mmb
	11011012012011	enviroform enviroform	ĺ		10.	ug/L	1	mmb
	Diethyl phthalate	envirocorm	İ		10.	ug/L		mmb
			İ				İ	İ
	<u> </u>	<u></u>	•	•				

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

Laboratory Sample ID: 231702-4
Date Received.....: 12/18/2003
Time Received.....: 10:00

_	4 Cl. 3 1 2			1				_
	4-Chlorophenyl phenyl ether	enviroform	-		10.	ug/L		mmb
	Pentachlorophenol	enviroform	-		25.	ug/L	1	mmb
	n-Nitrosodiphenylamine	enviroform			10.	ug/L	1	mmb
	4,6-Dinitro-2-methylphenol	enviroform	-		25.	ug/L	1	mmb
	Phenanthrene	enviroform	-		10.	uq/L		mmb
	Anthracene	enviroform	-		10.	uq/L		mmb
	Di-n-butyl phthalate	enviroform			10.	ug/L		mmb
	Fluoranthene	enviroform		ļ	10.	ug/L	İ	mmb
	Pyrene	enviroform		ļ	10.	ug/L	ļ	mmb
	Butyl benzyl phthalate	enviroform		ļ	10.	ug/L	1	mmb
	Benzo (a) anthracene	enviroform			10.	uq/L		mmb
		enviroform	1		10.	ug/L	1	mmb
	Chrysene	enviroform			10.	ug/L		mmb
	3,3-Dichlorobenzidine	enviroform	-		10.			
	Bis (2-ethylhexyl) phthalate	enviroform	ĺ		10.	ug/L		mmb
	Di-n-octyl phthalate		j			ug/L		1
	Benzo (b) fluoranthene	enviroform	i		10.	ug/L	j	mmb
	Benzo(k) fluoranthene	enviroform	i		10.	ug/L		mmb
	Benzo (a) pyrene	enviroform	i	i	10.	ug/L	i	mmb
	Indeno(1,2,3-cd)pyrene	enviroform	i	i	10.	ug/L	i	mmb
	Dibenzo(a,h)anthracene	enviroform	i	i	10.	ug/L	i	mmb
	Benzo(ghi)perylene	enviroform			10.	ug/L		mmb
√846 8260B	Volatile Organics							
	Chloromethane	enviro	- 1	i	10.0	ug/L	ì	aml
	Vinyl chloride	enviro	- 1	ŀ	10.0	ug/L	1	aml
	Bromomethane	enviro		1	10.0	ug/L		aml
	Chloroethane	enviro	-		10.0	ug/L		aml
	1,1-Dichloroethene	enviro	-		10.0	ug/L		aml
	Carbon disulfide	enviro	1	!	10.0	ug/L		aml
	Acetone	enviro			10.0	uq/L		aml
	Methylene chloride	enviro		!	10.0	ug/L		aml
	1,1-Dichloroethane	enviro		!	10.0	uq/L		aml
	Vinvl acetate	enviro		ļ	10.0	ua/L		aml
	2-Butanone (MEK)	enviro		ļ	10.0	ug/L		aml
	Chloroform	enviro		!	10.0	ug/L	ļ	aml
	1,1,1-Trichloroethane	enviro	-	ļ	10.0	uq/L		aml
	Carbon tetrachloride	enviro		ļ	10.0	uq/L		aml
	1.2-Dichloroethene (total)	enviro			10.0	uq/L		aml
	Benzene	enviro	1		10.0	ug/L		aml
	1.2-Dichloroethane	enviro			10.0	ug/L		aml
	Trichloroethene	enviro			10.0	ug/L		aml
		enviro			10.0	ug/L ug/L		aml
	1,2-Dichloropropane	enviro			10.0			
	Bromodichloromethane	enviro	İ			ug/L	İ	aml
	2-Chloroethylvinylether		İ	İ	10.0	ug/L	ĺ	aml
	cis-1,3-Dichloropropene	enviro	İ	İ	10.0	ug/L		aml
	4-Methyl-2-pentanone (MIBK)	enviro	j		10.0	ug/L	İ	aml
	Toluene	enviro		i	10.0	ug/L		aml
	trans-1,3-Dichloropropene	enviro			10.0	ug/L		aml
	1,1,2-Trichloroethane	enviro			10.0	ug/L		aml

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATIN: Joe Covati

Customer Sample ID: MW 120
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-4
Date Received....: 12/18/2003
Time Received....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEX
_	Tetrachloroethene	enviro	T		10.0	ug/L		am
	2-Hexanone	enviro	-		10.0	ug/L		am
	Dibromochloromethane	enviro			10.0	ug/L	ŀ	am
	Chlorobenzene	enviro			10.0	ug/L	ļ	am
	Ethylbenzene	enviro			10.0	ug/L		an
	Styrene	enviro	1		10.0	ug/L		an
	Bromoform	enviro			10.0	ug/L		ar
	1,1,2,2-Tetrachloroethane	enviro			10.0	ug/L		a
	Xylenes (total)	enviro	-		10.0	ug/L		a
	1,3-Dichlorobenzene	enviro			10.0	ug/L		a
	1,4-Dichlorobenzene	enviro	ļ		10.0	ug/L	[la
	1,2-Dichlorobenzene	enviro			10.0	ug/L	!	í
	1,2-bichiotoenzene	alv110			10.0	4g/ £		1
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120B
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-5 Date Received....: 12/18/2003 Time Received....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	curp
EPA 270.2	Selenium (Se)	200	ū		200	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.20	U		0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	ט		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	מממממממממממממממ		0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smo smo smo smo smo smo smo smo smo smo
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Silver (Ag)	1000 300 50.0 1000 25.0 25.0 552000 50.0 250 125 500 15.0 1120000 569 200 500000 11500000 50.0	ם טטטטט טטטטט	E E N	1000 300 50.0 1000 25.0 25.0 25.00 50.0 250 125 500 15.0 25000 50.0 200 500000 250000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mad mad mad mad mad mad mad mad mad mad

^{*} In Description = Dry Wgt.

Date: 02/16/2004 Job Number: 231702

ATIN: Joe Covati PROJECT: PELHAM BAY CUSTOMER: STES - Glen Cove

Customer Sample ID: MW 120B
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-5 Date Received.....: 12/18/2003 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TE
	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	ma
	Vanadium (V)	250	U		250	ug/L	01/07/04	ma
	Zinc (Zn)	100	ļυ		100	ug/L	01/07/04	ma
W846 8270C	Semivolatile Organics		ļ	İ			ļ	ļ
	n-Nitrosodimethylamine	enviroform	!	İ	10.	ug/L		m
	Phenol	enviroform	-	ļ	10.	ug/L	1	π
	Bis(2-chloroethyl)ether	enviroform	-		10.	uq/L		l r
	1,3-Dichlorobenzene	enviroform	ļ		10.	uq/L	1	1
	1.4-Dichlorobenzene	enviroform		ļ	10.	ug/L	ļ	ŀ
	1,2-Dichlorobenzene	enviroform			10.	ug/L		١,
	Benzyl alcohol	enviroform	ļ	1	10.	ug/L	ļ	,
	2-Methylphenol (o-cresol)	enviroform	1	!	10.	ug/L	ļ	Į,
	2,2-oxybis (1-chloropropane)	enviroform			10.	ug/L		Į,
	n-Nitroso-di-n-propylamine	enviroform		!	10.	ug/L		Į,
	Hexachloroethane	enviroform			10.	ug/L		ļ
	4-Methylphenol (m/p-cresol)	enviroform	İ		10.	ug/L	ļ	Į,
	2-Chlorophenol	enviroform	1	İ	10.	ug/L		Į,
	Nitrobenzene	enviroform		!	10.	ug/L		Į.
	Bis (2-chloroethoxy) methane	enviroform		,	10.	ug/L		1
		enviroform			10.	ug/L		ļ,
	1,2,4-Trichlorobenzene	enviroform		Į.	10.	ug/L	į.	Į,
	Isophorone	enviroform	İ	İ	10.	_,	ĺ	- 1
	2,4-Dimethylphenol	enviroform	-	ĺ		ug/L	İ	1
	Hexachlorobutadiene	enviroform	İ	İ	10. 10.	ug/L	İ	- 1
	Naphthalene		i	İ		ug/L	İ	į
	2,4-Dichlorophenol	enviroform	i		10.	ug/L	į	Ì
	4-Chloroaniline	enviroform	ì	İ	10.	ug/L	i	ľ
	2,4,6-Trichlorophenol	enviroform		i	10.	ug/L	i	ľ
	2,4,5-Trichlorophenol	enviroform	i		50.	ug/L	i	ľ
	Hexachlorocyclopentadiene	enviroform		i	10.	ug/L	1	ľ
	2-Methylnaphthalene	enviroform		1	10.	ug/L		l
	2-Nitroaniline	enviroform	- 1		25.	ug/L	i	ľ
	2-Chloronaphthalene	enviroform	ł	i	10.	ug/L	i	ł
	4-Chloro-3-methylphenol	enviroform	-		10.	ug/L	1	ľ
	2,6-Dinitrotoluene	enviroform	-		10.	ug/L		1
	2-Nitrophenol	enviroform			10.	ug/L	1	1
	3-Nitroaniline	enviroform		l	25	ug/L	i	ľ
	Dimethyl phthalate	enviroform	-	1	10.	ug/L		ľ
	2,4-Dinitrophenol	enviroform	H		25	ug/L	-	ł
	Acenaphthylene	enviroform		i	10.	ug/L	-	ŀ
	2,4-Dinitrotoluene	enviroform		1	10.	ug/L	1	ŀ
	Acenaphthene	enviroform			10.	ug/L		þ
	Dibenzofuran	enviroform	-		10.	ug/L		1
	4-Nitrophenol	enviroform			25.	ug/L		h
	Fluorene	enviroform			10.	ug/L		1
	4-Nitroaniline	enviroform			25.	ug/L		1
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L		1
	Hexachlorobenzene	enviroform		1	10.	ug/L		1
	Diethyl phthalate	enviroform			10.	ug/L		Ι,
	Date Printer				1 20.	~g/ ~		1,

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120B
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-5 Date Received.....: 12/18/2003 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEX
-	4-Chlorophenyl phenyl ether	enviroform			10.	ug/L		mmk
	Pentachlorophenol	enviroform	1		25.	ug/L		mmk
	n-Nitrosodiphenylamine	enviroform		1	10.	ug/L		mmk
	4,6-Dinitro-2-methylphenol	enviroform	-		25.	uq/L		mmk
	Phenanthrene	enviroform		ļ	10.	uq/L		mmk
	Anthracene	enviroform	1		10.	uq/L	1	mmk
	Di-n-butyl phthalate	enviroform		!	10.	uq/L		mml
	Fluoranthene	enviroform			10.	ug/L		mml
	Pyrene	enviroform	ļ		10.	uq/L		mm
	Butyl benzyl phthalate	enviroform			10.	uq/L	!	mm
	Benzo (a) anthracene	enviroform	1		10.	uq/L		mmi
	Chrysene	enviroform			10.	uq/L		mmi
	3.3-Dichlorobenzidine	enviroform		ļ	10.	ug/L		mml
	Bis (2-ethylhexyl) phthalate	enviroform			10.	ug/L		mmi
	Di-n-octyl phthalate	enviroform			10.	uq/L		mm
	Benzo (b) fluoranthene	enviroform			10.	ug/L		mmi
	Benzo (k) fluoranthene	enviroform			10.	ug/L		mmi
	Benzo (a) pyrene	enviroform			10.	ug/L		mmi
		enviroform			10.		İ	1
	Indeno(1,2,3-cd)pyrene	enviroform	Ì			ug/L		mmi
	Dibenzo (a, h) anthracene	enviroform	1	İ	10.	ug/L	i	mm
	Benzo(ghi)perylene	enviroionm			10.	ug/L		mm
W846 8260B	Volatile Organics		-					
	Chloromethane	enviro			10.0	ug/L		am
	Vinyl chloride	enviro	-		10.0	ug/L		am
	Bromomethane	enviro	1		10.0	ug/L		am
	Chloroethane	enviro			10.0	uq/L	1	am
	1,1-Dichloroethene	enviro	-		10.0	uq/L		am
	Carbon disulfide	enviro	1	İ	10.0	uq/L		an
	Acetone	enviro			10.0	ug/L	!	arr
	Methylene chloride	enviro	-		10.0	uq/L		am
	1.1-Dichloroethane	enviro	-		10.0	uq/L		am
	Vinyl acetate	enviro		ļ	10.0	uq/L		am
	2-Butanone (MEK)	enviro	!		10.0	ug/L	!	an
	Chloroform	enviro		!	10.0	ug/L		an
	1,1,1-Trichloroethane	enviro	-		10.0	uq/L		am
	Carbon tetrachloride	enviro	1		10.0	uq/L	ļ	an
	1,2-Dichloroethene (total)	enviro	!		10.0	ug/L		an
	Benzene	enviro		ļ	10.0	ug/L		am
	1.2-Dichloroethane	enviro	ļ		10.0	uq/L		an
	Trichloroethene	enviro			10.0	ug/L		am
	1,2-Dichloropropane	enviro	1	ĺ	10.0	ug/L		am
	Bromodichloromethane	enviro			10.0	ug/L		
	2-Chloroethylvinylether	enviro			10.0	ug/L ug/L		am
	cis-1,3-Dichloropropene	enviro			10.0	3,		am
	4-Methyl-2-pentanone (MIBK)	enviro			10.0	ug/L		
	Toluene (MIBK)	enviro				ug/L	İ	am
			İ		10.0	ug/L	Ì	am
	trans-1,3-Dichloropropene	enviro		į	10.0	ug/L	i	am
	1,1,2-Trichloroethane	enviro		1	10.0	uq/L		am

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 120B
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

Laboratory Sample ID: 231702-5 Date Received.....: 12/18/2003 Time Received.....: 10:00

EST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TE
	Tetrachloroethene	enviro			10.0	ug/L		am
	2-Hexanone	enviro	-		10.0	ug/L	1	am
	Dibromochloromethane	enviro		!	10.0	ug/L	1	lam
	Chlorobenzene	enviro	-		10.0	ug/L		an
	Ethylbenzene	enviro			10.0	ug/L	ļ	ar
	Styrene	enviro	- !		10.0	ug/L	!	ar
	Bromoform	enviro	!		10.0	ug/L	ļ	ar
	1,1,2,2-Tetrachloroethane	enviro		ļ	10.0	ug/L		a
	Xylenes (total)	enviro			10.0	ug/L		a
	1,3-Dichlorobenzene	enviro	ļ		10.0	ug/L		a
	1,4-Dichlorobenzene	enviro			10.0	ug/L		a
		enviro		ĺ			Ì	1
	1,2-Dichlorobenzene	GIVIIO		İ	10.0	ug/L	j	a
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 121
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECI
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	cmp
EPA 270.2	Selenium (Se)	25.0	ט		25.0	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.24			0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	Ū		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	ממממממממממממממ		0.050 0.050 0.050 0.050 0.050 0.050 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smc smc smc smc smc smc smc smc smc smc
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (K) Sodium (Na) Silver (Ag)	8650 300 50.0 1000 25.0 25.0 53000 50.0 250 125 13600 112 25000 340 200 25000 138000 50.0	ם מם ממממם	E E N	1000 300 50.0 1000 25.0 25.0 2500 50.0 250 125 500 15.0 25000 50.0 25000 50.0 25000 50.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	made made made made made made made made

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATTN: Joe Covati

Customer Sample ID: MW 121
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	T C
	Thallium (T1)	50.0	U		50.0	ug/L	01/07/04	
	Vanadium (V)	250	U		250	ug/L	01/07/04	l m
	Zinc (Zn)	159			100	ug/L	01/07/04	l ¦m
W846 8270C	Semivolatile Organics			1				
	n-Nitrosodimethylamine	enviroform	1		10.	ug/L	1	'n
	Phenol	enviroform	1		10.	ug/L		١
	Bis(2-chloroethyl)ether	enviroform		1	10.	ug/L		1
	1,3-Dichlorobenzene	enviroform	ł		10.	ug/L	1	ł
	1,4-Dichlorobenzene	enviroform	1	i	10.	ug/L		ı
	1,2-Dichlorobenzene	enviroform			10.	ug/L		ł
	Benzyl alcohol	enviroform	i		10.	ug/L	1	1
	2-Methylphenol (o-cresol)	enviroform	1	l	10.	ug/L		ł
	2,2-oxybis (1-chloropropane)	enviroform		1	10.	ug/L	1	ł
	n-Nitroso-di-n-propylamine	enviroform			10.	ug/L		ı
	Hexachloroethane	enviroform			10.	ug/L		ì
	4-Methylphenol (m/p-cresol)	enviroform		1	10.	ug/L		ľ
	2-Chlorophenol	enviroform	-		10.	ug/L		
	Nitrobenzene	enviroform			10.	ug/L		
	Bis (2-chloroethoxy) methane	enviroform	1		10.	ug/L	1	
	1,2,4-Trichlorobenzene	enviroform			10.	ug/L		
	Isophorone	enviroform	1		10.	ug/L	ì	
	2,4-Dimethylphenol	enviroform	1	İ	10.	ug/L	-	
	Hexachlorobutadiene	enviroform	-		10.	ug/L	I	
	Naphthalene	enviroform			10.	ug/L		
	2,4-Dichlorophenol	enviroform	-		10.	ug/L	1	
	4-Chloroaniline	enviroform	1		10.	ug/L		
	2,4,6-Trichlorophenol	enviroform	-		10.	ug/L		
	2,4,5-Trichlorophenol	enviroform	-		50.	ug/L	1	
	Hexachlorocyclopentadiene	enviroform	1	i	10.	ug/L	1	
	2-Methylnaphthalene	enviroform	ŀ		10.	ug/L		
	2-Nitroaniline	enviroform	-		25.	ug/L		
	2-Chloronaphthalene	enviroform	1		10.	ug/L		
	4-Chloro-3-methylphenol	enviroform		l	10.	ug/L		
	2,6-Dinitrotoluene	enviroform	-		10.	ug/L	1	ł
	2-Nitrophenol	enviroform			10.	ug/L	1	
	3-Nitroaniline	enviroform	1		25	ug/L		
	Dimethyl phthalate	enviroform			10.	ug/L		
	2,4-Dinitrophenol	enviroform			25	ug/L		
	Acenaphthylene	enviroform			10.	ug/L		
	2,4-Dinitrotoluene	enviroform			10.	ug/L		
	Acenaphthene	enviroform			10.	ug/L		
	Dibenzofuran	enviroform			10.	ug/L		
	4-Nitrophenol	enviroform		i	25.	ug/L		
	Fluorene	enviroform			10.	ug/L		ļ
	4-Nitroaniline	enviroform		1	25.	ug/L		ł
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L		
	Hexachlorobenzene	enviroform			10.	ug/L		
	Diethyl phthalate	enviroform		1	10.	ug/L	1	- !

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES - Glen Cove PROJECT: PELHAM BAY ATTN: Joe Covati

Customer Sample ID: MW 121
Date Sampled. ...: 12/16/2003
Time Sampled. ...: 00:00
Sample Matrix. ...: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
	4-Chlorophenyl phenyl ether	enviroform		10.	uq/L		mmb
	Pentachlorophenol	enviroform		25.	ug/L		mmb
	n-Nitrosodiphenylamine	enviroform		10.	ug/L		mmb
	4,6-Dinitro-2-methylphenol	enviroform		25.	ug/L		mmb
	Phenanthrene	enviroform	!!	10.	uq/L	!	mmb
	Anthracene	enviroform	1 1	10.	uq/L	į .	mmb
	Di-n-butyl phthalate	enviroform	!!	10.	uq/L		mmb
	Fluoranthene	enviroform		10.	uq/L	! !	mmb
	Pyrene	enviroform		10.	ug/L	! !	mmb
	Butyl benzyl phthalate	enviroform	! !	10.	uq/L	!	mmb
	Benzo (a) anthracene	enviroform		10.	uq/L		mmb
	Chrysene	enviroform		10.	uq/L		mmb
	3,3-Dichlorobenzidine	enviroform	!!	10.	ug/L		mmb
	Bis(2-ethylhexyl)phthalate	enviroform		10.	uq/L		mmb
	Di-n-octyl phthalate	enviroform		10.	ug/L	!	mmb
	Benzo (b) fluoranthene	enviroform		10.	ug/L		mmb
	Benzo (k) fluoranthene	enviroform	<u> </u>	10.	ug/L		mmb
	Benzo(a) pyrene	enviroform	!!	10.	ug/L		mmb
	Indeno(1,2,3-cd)pyrene	enviroform	1	10.	ug/L		mmb
	Dibenzo (a, h) anthracene	enviroform		10.	ug/L		mmb
	Benzo(ghi) perylene	enviroform	<u> </u>	10.	ug/L		mmb
	Daizo (gill) polytole	Carvirozoziii	! !	10.	ug/1		
SW846 8260B	Volatile Organics						
	Chloromethane	enviro	!!	10.0	ug/L		aml
	Vinyl chloride	enviro		10.0	ug/L		aml
	Bromomethane	enviro		10.0	ug/L		aml
	Chloroethane	enviro		10.0	ug/L	!	aml
	1,1-Dichloroethene	enviro		10.0	ug/L		aml
	Carbon disulfide	enviro		10.0	ug/L		aml
	Acetone	enviro	1	10.0	ug/L		aml
	Methylene chloride	enviro		10.0	ug/L		aml
	1,1-Dichloroethane	enviro		10.0	ug/L		aml
	Vinyl acetate	enviro		10.0	ug/L		aml
	2-Butanone (MEK)	enviro		10.0	ug/L		aml
	Chloroform	enviro		10.0	ug/L		aml
	1,1,1-Trichloroethane	enviro	1	10.0	ug/L		aml
	Carbon tetrachloride	enviro	 	10.0	ug/L		aml
	1,2-Dichloroethene (total)	enviro	<u> </u>	10.0	ug/L	!!!	aml
	Benzene	enviro		10.0	ug/L		aml
	1,2-Dichloroethane	enviro		10.0	ug/L		aml
	Trichloroethene	enviro		10.0	ug/L	!!!	aml
	1,2-Dichloropropane	enviro		10.0	ug/L	! !	aml
	Bromodichloromethane	enviro		10.0	ug/L		aml
	2-Chloroethylvinylether	enviro		10.0	ug/L		aml
	cis-1,3-Dichloropropene	enviro		10.0	ug/L		aml
	4-Methyl-2-pentanone (MIBK)	enviro		10.0	ug/L		aml
	Toluene	enviro		10.0	ug/L		aml
	trans-1,3-Dichloropropene	enviro		10.0	ug/L		aml
	1,1,2-Trichloroethane	enviro		10.0	ug/L		aml
					-		
		1					

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 121
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

ST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEX
	Tetrachloroethene	enviro			10.0	ug/L		am
	2-Hexanone	enviro			10.0	ug/L		ami
	Dibromochloromethane	enviro			10.0	ug/L		am
	Chlorobenzene	enviro			10.0	ug/L	1	am
	Ethylbenzene	enviro			10.0	ug/L	1	am
	Styrene	enviro	ĺ		10.0	ug/L		am
	Bromoform	enviro	-		10.0	ug/L		an
	1,1,2,2-Tetrachloroethane	enviro		!	10.0	ug/L		ar
	Xylenes (total)	enviro		1	10.0	ug/L	!	ar
	1,3-Dichlorobenzene	enviro			10.0	ug/L	ļ	aı
	1,4-Dichlorobenzene	enviro	ļ		10.0	ug/L		at
	1,2-Dichlorobenzene	enviro		ļ	10.0	ug/L		ar
	1,2-Dichiolobelizete	divilo			10.0			"
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 122
Date Sampled. . . . 12/16/2003
Time Sampled. . . . 00:00
Sample Matrix. . . . Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TEC
EPA 200.7	Acid Digestion (ICP)	Complete				Text	12/19/03	curp
EPA 270.2	Selenium (Se)	100	ט		100	ug/L	01/13/04	mwh
EPA 245.1	Mercury (Hg)	0.20	U		0.20	ug/L	12/22/03	lms
SM18 4500CNE	Cyanide, Total	0.0100	U		0.0100	mg/L	12/22/03	ne
SW846 8081A	Organochlorine Pesticide Analysis alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin 4,4'-DDE Endrin Endosulfan II 4,4'-DDD Endosulfan sulfate 4,4'-DDT Methoxychlor Toxaphene Endrin aldehyde Technical Chlordane	0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	מממממממממממממ		0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04 01/09/04	smo smo smo smo smo smo smo smo smo smo
SW846 6010B	Metals Analysis (ICAP) Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Calcium (Ca) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Potassium (Na) Silver (Ag)	1000 300 50.0 2390 25.0 25.0 81300 55.6 250 125 19100 15.0 308000 50.0 870 307000 1790000 50.0	ם מם מם מ	E E N	1000 300 50.0 1000 25.0 25.0 25.00 50.0 2500 125 500 15.0 25000 50.0 200 125000 50.00 50.00	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04 01/07/04	mad mad mad mad mad mad mad mad mad mad

^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATIN: Joe Covati

Customer Sample ID: MW 122
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
	Thallium (Tl)	50.0	U		50.0	ug/L	01/07/04	
	Vanadium (V)	250	U		250	ug/L	01/07/04	
l	Zinc (Zn)	100	U		100	ug/L	01/07/04	mad
SW846 8270C	Semivolatile Organics							
5.1010	n-Nitroscdimethylamine	enviroform			10.	uq/L		mmb
	Phenol	enviroform			10.	ug/L		mmb
	Bis(2-chloroethyl)ether	enviroform			10.	ug/L	!	mmb
	1.3-Dichlorobenzene	enviroform			10.	ug/L	!	mmb
	1,4-Dichlorobenzene	enviroform			10.	ug/L	!	mmb
	1,2-Dichlorobenzene	enviroform			10.	ug/L		mmb
	Benzyl alcohol	enviroform			10.	ug/L		mmb
	2-Methylphenol (o-cresol)	enviroform			10.	ug/L		mmb
	2,2-oxybis (1-chloropropane)	enviroform			10.	ug/L		mmb
	n-Nitroso-di-n-propylamine	enviroform			10.	ug/L	1	mmb
	Hexachloroethane	enviroform			10.	ug/L	1	mmb
	4-Methylphenol (m/p-cresol)	enviroform			10.	ug/L	1	mmb
	2-Chlorophenol	enviroform	!	l i	10.	ug/L		mmb
	Nitrobenzene	enviroform		l	10.	ug/L		mmb
	Bis(2-chloroethoxy)methane	enviroform			10.	ug/L		mmb
	1,2,4-Trichlorobenzene	enviroform		 	10.	ug/L		mmb
	Isophorone	enviroform			10.	ug/L	i	mmb
	2,4-Dimethylphenol	enviroform			10.	ug/L		mmb
	Hexachlorobutadiene	enviroform	H		10.	ug/L	1	mmb
	Naphthalene	enviroform	1	l	10.	ug/L	1	mmb
	2,4-Dichlorophenol	enviroform	1 1	ŀ	10.	ug/L		mmb
	4-Chloroaniline	enviroform	H	ŀ	10.	ug/L		mmb
	2,4,6-Trichlorophenol	enviroform		i	10.	ug/L	1	mmb
	2,4,5-Trichlorophenol	enviroform	i		50.	ug/L		mmb
	Hexachlorocyclopentadiene	enviroform	1		10.	ug/L		mmb
	2-Methylnaphthalene	enviroform	i		10.	ug/L		mmb
	2-Nitroaniline	enviroform	i		25.	ug/L	1	mmb
	2-Chloronaphthalene	enviroform	ii		10.	ug/L		mmb
İ	4-Chloro-3-methylphenol	enviroform enviroform	i		10.	ug/L	1	mmb
	2,6-Dinitrotoluene	enviroform	j j	į	10. 10.	ug/L	İ	mmb
	2-Nitrophenol 3-Nitroaniline	enviroform enviroform			10. 25	ug/L ug/L		dmm
	Dimethyl phthalate	enviroform		1	10.	ug/L ug/L		mmb
	2,4-Dinitrophenol	enviroform			25	ug/L ug/L		mmb
	Acenaphthylene	enviroform			10.	ug/L		mmb
	2,4-Dinitrotoluene	enviroform			10.	ug/L		mmb
	Acenaphthene	enviroform			10.	ug/L	ĺ	mmb
	Dibenzofuran	enviroform			10.	ug/L		mmb
	4-Nitrophenol	enviroform			25.	ug/L		mmb
	Fluorene	enviroform			10.	ug/L		mmb
	4-Nitroaniline	enviroform			25.	ug/L		mmb
	4-Bromophenyl phenyl ether	enviroform			10.	ug/L		mmb
	Hexachlorobenzene	enviroform			10.	ug/L		mmb
	Diethyl phthalate	enviroform			10.	ug/L		mmb
	The state of the s				10.	45, 2		

^{*} In Description = Dry Wgt.

Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 122
Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
_	4-Chlorophenyl phenyl ether	enviroform		10.	ug/L		mmb
	Pentachlorophenol	enviroform		25.	ug/L		mmb
	n-Nitrosodiphenylamine	enviroform		10.	ug/L		mmb
	4,6-Dinitro-2-methylphenol	enviroform		25.	ug/L	!	mmb
	Phenanthrene	enviroform		10.	uq/L		mmb
	Anthracene	enviroform	1 1	10.	ua/L		mmb
	Di-n-butyl phthalate	enviroform		10.	uq/L		mmb
	Fluoranthene	enviroform	1 1	10.	uq/L		mmib
	Pyrene	enviroform		10.	ug/L		mmb
	Butyl benzyl phthalate	enviroform		10.	uq/L	!	mmb
	Benzo(a)anthracene	enviroform		10.	ug/L		mmb
	Chrysene	enviroform		10.	ug/L		mmb
	3,3-Dichlorobenzidine	enviroform	1 1	10.	ug/L		mmb
	Bis (2-ethylhexyl) phthalate	enviroform		10.	ug/L		mmb
		enviroform		10.	٠,		mmb
	Di-n-octyl phthalate		11		ug/L		
	Benzo(b) fluoranthene	enviroform	i i	10.	ug/L		mmb
	Benzo(k) fluoranthene	enviroform	i i	10.	ug/L	İ	mmb
	Benzo (a) pyrene	enviroform	i i	10.	ug/L	i	mmb
	Indeno(1,2,3-cd)pyrene	enviroform	ii	10.	ug/L	İ	mmb
	Dibenzo(a,h)anthracene	enviroform	1 1	10.	ug/L		mmb
	Benzo(ghi)perylene	enviroform		10.	ug/L		mmb
SW846 8260B	Volatile Organics						
	Chloromethane	enviro		10.0	ug/L	1	aml
	Vinyl chloride	enviro		10.0	ug/L		aml
	Bromomethane	enviro	1 1	10.0	ug/L	1	aml
	Chloroethane	enviro		10.0	uq/L		aml
	1,1-Dichloroethene	enviro		10.0	uq/L		aml
	Carbon disulfide	enviro		10.0	uq/L		aml
	Acetone	enviro		10.0	uq/L		aml
	Methylene chloride	enviro	! !	10.0	uq/L	ļ	aml
	1.1-Dichloroethane	enviro		10.0	uq/L	ļ	aml
	Vinvl acetate	enviro		10.0	uq/L		aml
	2-Butanone (MEK)	enviro		10.0	ug/L		aml
	Chloroform	enviro		10.0	ug/L		aml
	1.1.1-Trichloroethane	enviro	, ,	10.0	ug/L		aml
	Carbon tetrachloride	enviro		10.0	ug/L		aml
	1.2-Dichloroethene (total)	enviro		10.0	ug/L		aml
	Benzene (cocar)	enviro		10.0	ug/L		aml
	1.2-Dichloroethane	enviro	1 1	10.0			aml
	Trichloroethene	enviro	İ	10.0	ug/L	İ	
		enviro	į į		ug/L	İ	aml
	1,2-Dichloropropane	4	i i	10.0	ug/L		aml
	Bromodichloromethane	enviro		10.0	ug/L		aml
	2-Chloroethylvinylether	enviro		10.0	ug/L		aml
	cis-1,3-Dichloropropene	enviro		10.0	ug/L		aml
	4-Methyl-2-pentanone (MIBK)	enviro	1 1	10.0	ug/L		aml
	Toluene	enviro		10.0	ug/L		aml
	trans-1,3-Dichloropropene	enviro		10.0	ug/L		aml
	1,1,2-Trichloroethane	enviro		10.0	ug/L		aml
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Job Number: 231702

Date: 02/16/2004

CUSTOMER: STES - Glen Cove

PROJECT: PELHAM BAY

ATTN: Joe Covati

Customer Sample ID: MW 122 Date Sampled....: 12/16/2003
Time Sampled....: 00:00
Sample Matrix...: Water

ST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	T
	Tetrachloroethene	enviro			10.0	ug/L		aı
	2-Hexanone	enviro		1	10.0	ug/L		aı
	Dibromochloromethane	enviro	- !		10.0	ug/L		la
	Chlorobenzene	enviro			10.0	ug/L		a
		enviro				ug/L		\[a
	Ethylbenzene		i	ĺ	10.0		İ	
	Styrene	enviro	i	İ	10.0	ug/L		ļε
	Bromoform	enviro		i	10.0	ug/L		ł
	1,1,2,2-Tetrachloroethane	enviro	- 1	1	10.0	ug/L		lá
	Xylenes (total)	enviro	-		10.0	ug/L		lá
	1,3-Dichlorobenzene	enviro			10.0	ug/L		Į,
	1,4-Dichlorobenzene	enviro	1	ļ	10.0	ug/L		Ţ
		enviro			10.0	ug/1		Ţ
	1,2-Dichlorobenzene	GUATIO		ļ	10.0	ug/L	ļ	ľ
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LABORATORY CHRONICLE

Job Number: 231702 Date: 02/16/2004

CUSTOMER: STES -	Glen Cove	PROJECT: PELHAM	BAY		ATTN: Joe Covat	i	
Lab ID: 231702-1	Client ID: MW 104	Date Re	 cvd: 12/	18/2003 Sample	e Date: 12/16/20	003	
METHOD	DESCRIPTION			PREP BT #(S)	DATE/TIME AN		DILUTION
	5030 5 mL Purge Prep	1	59646		12/29/2003	1200	
EPA 200.7	Acid Digestion, Total Recoverable (ICAP		59238		12/19/2003	1000	
SM18 4500CNE	Cyanide, Total	, <u> </u>	59501		12/22/2003	0000	
	Extraction Sep. Funnel (Chlor.Pest)	1	59790		12/23/2003	1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)	1	59780		12/23/2003	1200	
SW846 3510C		1	59458		12/22/2003	1427	
EPA 245.1	Mercury (CVAA)	1	60313	59238	01/07/2004	1635	5.000
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238		1639	50.00
SW846 6010B	Metals Analysis (ICAP) Metals Analysis (ICAP) Metals Analysis (ICAP) Organochlorine Pesticide Analysis Quality Assurance Services Quality Assurance Services	1			01/07/2004		
SW846 6010B	Metals Analysis (ICAP)	1	60475	59238	01/09/2004	1627	100.0
SW846 8081A	Organochlorine Pesticide Analysis	1	60693		01/09/2004	0000	
QA Services	Quality Assurance Services	1	60584		/ /		
QA Services		1	59571		12/26/2003	0000	
QA Services	Quality Assurance Services	1	60690		01/14/2004	0000	
QA Services	Quality Assurance Services	1	60906		01/16/2004	0000	
EPA 270.2	Selenium (GFAA)	1	60773	59238	01/13/2004	1737	40
SW846 8270C	Semivolatile Organics	1	60583				
SW846 8260B	Volatile Organics	1	59573		12/26/2003	0000	
Lab ID: 231702-2	Client ID: MW 109	Date Re	cvd: 12/	/18/2003 Sample	e Date: 12/16/20	003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME A	VALYZED	DILUTIO
	5030 5 mL Purge Prep	1	59646		12/29/2003	1200	
EPA 200.7	Acid Digestion, Total Recoverable (ICAP) 1	59238		12/19/2003	1000	
SM18 4500CNE	Cyanide, Total	,	59501		12/22/2003	0000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)	1	59790		12/23/2003	1200	
	Extraction Sep. Funnel (SVOC)	1	59780		12/23/2003	1200	
SW846 3510C		1	59458		12/22/2003	1429	
EPA 245.1	Mercury (CVAA)	1	60313	59238		1644	5.000
SW846 6010B	Metals Analysis (ICAP)	_			01/07/2004		
SW846 6010B	Metals Analysis (ICAP)	1	60475	59238	01/09/2004	1631	5.000
SW846 8081A	Organochlorine Pesticide Analysis	1	60693		01/09/2004	0000	
QA Services	Quality Assurance Services	1	59571				
QA Services	Quality Assurance Services	1	60584				
QA Services	Quality Assurance Services	1	60690				
QA Services	Quality Assurance Services	1	60906				
EPA 270.2	Selenium (GFAA)	1	60773	59238	01/13/2004	1756	5
SW846 8270C	Semivolatile Organics	1	60583				
SW846 8260B	Volatile Organics	1	59573				
Lab ID: 231702-3	Client ID: MW 119	Date Re	cvd: 12/	/18/2003 Sample	e Date: 12/16/20	003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME A	VALYZED	DILUTIO
SW846 5030 (5mL	5030 5 mL Purge Prep	1	59646		12/29/2003	1200	
EPA 200.7	Acid Digestion, Total Recoverable (ICAP) 1	59238		12/19/2003	1000	
SM18 4500CNE	Cyanide, Total	1	59501		12/22/2003	0000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)	1	59790		12/23/2003	1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)	1	59780		12/23/2003	1200	
EPA 245.1	Mercury (CVAA)	1	59458		12/22/2003	1431	
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238	01/07/2004	1648	5.000
SW846 6010B	Metals Analysis (ICAP)	i	60313	59238	01/07/2004	1652	50.00
	Metals Analysis (ICAP)	1	60475	59238	01/09/2004	1635	100.0
SW846 6010B	Organochlorine Pesticide Analysis	1	60693	37230	, ,	0000	100.0
SW846 8081A	Organochiorine Pesticide Analysis	1			01/09/2004	0000	
QA Services	Quality Assurance Services	1	59571				
QA Services	Quality Assurance Services	1	60584				
	Quality Assurance Services	1	60690				
QA Services							
QA Services QA Services	Quality Assurance Services	1	60906				
QA Services	Quality Assurance Services Selenium (GFAA) Semivolatile Organics	1 1 1	60906 60773 60583	59238	01/13/2004	1806	40

LABORATORY CHRONICLE

Job Number: 231702

Date: 02/16/2004

Jab	Number: 231/02				Date:	02/16/2004		
CUSTOMER: STES -	Glen Cove	PROJECT: PELHA	M BAY			ATTN: Joe Cova	ti	
Lab ID: 231702-3 METHOD SW846 8260B	Client ID: MW 119 DESCRIPTION Volatile Organics			/18/2003 PREP BT		Date: 12/16/2 DATE/TIME A		DILUTIO
	_	Dota D		/18/2003	Comple	Data 12/16/2	003	
Lab ID: 231702-4 METHOD	Client ID: MW 120 DESCRIPTION			PREP BT		Date: 12/16/2 DATE/TIME A		DILUTIO
	5030 5 mL Purge Prep	1	59646		11 (0)	12/29/2003	1200	DILLOTIO
EPA 200.7	Acid Digestion, Total Recoverable (IC		59238			12/19/2003	1000	
SM18 4500CNE	Cyanide, Total	1	59501			12/22/2003	0000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)		59790			12/23/2003	1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)	1	59780			12/23/2003	1200	
EPA 245.1	Mercury (CVAA)	1	59458			12/22/2003	1433	
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238		01/07/2004	1657	5.000
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238		01/07/2004	1741	50.00
SW846 6010B	Metals Analysis (ICAP) Organochlorine Pesticide Analysis	1 1	60475 60693	59238		01/09/2004	1639	50.00
SW846 8081A QA Services	Quality Assurance Services	1	59571			01/09/2004	0000	
OA Services	Quality Assurance Services	1	60584					
QA Services	Quality Assurance Services	1	60690					
OA Services	Ouality Assurance Services	1	60906					
EPA 270.2	Selenium (GFAA)	1	60773	59238		01/13/2004	1816	40
SW846 8270C	Semivolatile Organics	1	60583			. ,		
SW846 8260B	Volatile Organics	1	59573					
ab ID: 231702-5	Client ID: MW 120B	Date R	ecvd: 12/	/18/2003	Sample	Date: 12/16/2	003	
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME A	NALYZED	DILUTIO
SW846 5030(5mL	J 1	1	59646			12/29/2003	1200	
EPA 200.7	Acid Digestion, Total Recoverable (IC		59238			12/19/2003	1000	
SM18 4500CNE	Cyanide, Total	1	59501			12/22/2003	0000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)	1	59790			12/23/2003	1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)	1	59780			12/23/2003	1200	
EPA 245.1 SW846 6010B	Mercury (CVAA) Metals Analysis (ICAP)	1 1	59458 60313	59238		12/22/2003	1435	F 000
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238		01/07/2004 01/07/2004	1816 1820	5.000 50.00
SW846 6010B	Motola Apolygia (TCAD)	1	60475	59238		01/09/2004	1712	100.0
SW846 8081A	Organochlorine Pesticide Analysis Quality Assurance Services	1	60693	33230		01/09/2004	0000	100.0
QA Services	Ouality Assurance Services	1	59571			01/03/2004	0000	
QA Services	Quality Assurance Services	1	60584					
QA Services	Quality Assurance Services	1	60690					
QA Services	Quality Assurance Services	1	60906					
EPA 270.2	Selenium (GFAA)	1	60773	59238		01/13/2004	1856	40
SW846 8270C	Semivolatile Organics	1	60583					
SW846 8260B	Volatile Organics	1	59573					
ab ID: 231702-6	Client ID: MW 121			18/2003		Date: 12/16/20		
METHOD	DESCRIPTION			PREP BT	#(S)	DATE/TIME A		DILUTIO
	5030 5 mL Purge Prep	1	59646			12/29/2003	1200	
EPA 200.7 SM18 4500CNE	Acid Digestion, Total Recoverable (IC) Cyanide, Total	AP) 1 1	59238 59501			12/19/2003	1000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)	1	59790			12/22/2003 12/23/2003	0000 1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)	1	59780			12/23/2003	1200	
EPA 245.1	Mercury (CVAA)	1	59458			12/22/2003	1437	
SW846 6010B	Metals Analysis (ICAP)	1	60313	59238		01/07/2004	1824	5.000
SMO O COTOD		1	60475	59238		01/07/2004	1716	5.000
SW846 6010B	Metals Analysis (ICAP)					,,,1		0.000
	Organochlorine Pesticide Analysis	1	60693			01/09/2004	0000	
SW846 6010B		1 1	60693 59571			01/09/2004	0000	

LABORATORY CHRONICLE

Job Number: 231702

Date: 02/16/2004

	, manager and the					20001	2, 20, 2001		
CUSTOMER: STES -	Glen Cove	PROJECT:	PELHAM	BAY			ATTN: Joe Covat	i	_
Lab ID: 231702-6	Client ID: MW 121	I	Date Re	cvd: 12/	18/2003	Sample	Date: 12/16/20	003	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	IALYZED	DILUTION
QA Services	Quality Assurance Services		1	60690					
QA Services	Quality Assurance Services		1	60906					
EPA 270.2	Selenium (GFAA)		1	60773	59238		01/13/2004	1906	5
SW846 8270C	Semivolatile Organics		1	60583					
SW846 8260B	Volatile Organics		1	59573					
! Lab ID: 231702-7	Client ID: MW 122	I	Date Re	cvd: 12/	18/2003	Sample	Date: 12/16/20	003	
METHOD	DESCRIPTION		RUN#	BATCH#	PREP BT	#(S)	DATE/TIME AN	IALYZED	DILUTION
SW846 5030 (5mL	5030 5 mL Purge Prep		1	59646			12/29/2003	1200	
EPA 200.7	Acid Digestion, Total Recoverable (ICA	P)	1	59238			12/19/2003	1000	
SM18 4500CNE	Cyanide, Total		1	59501			12/22/2003	0000	
SW846 3510C	Extraction Sep. Funnel (Chlor.Pest)		1	59790			12/23/2003	1200	
SW846 3510C	Extraction Sep. Funnel (SVOC)		1	59780			12/23/2003	1200	
EPA 245.1	Mercury (CVAA)		1	59458			12/22/2003	1443	
SW846 6010B	Metals Analysis (ICAP)		1	60313	59238		01/07/2004	1829	5.000
SW846 6010B	Metals Analysis (ICAP)		1	60313	59238		01/07/2004	1833	50.00
SW846 6010B	Metals Analysis (ICAP)		1	60475	59238		01/09/2004	1720	25.00
SW846 8081A	Organochlorine Pesticide Analysis		1	60693			01/09/2004	0000	
QA Services	Quality Assurance Services		1	59571					
QA Services	Quality Assurance Services		1	60584					
QA Services	Quality Assurance Services		1	60690					
QA Services	Quality Assurance Services		1	60906					
EPA 270.2	Selenium (GFAA)		1	60773	59238		01/13/2004	1916	20
SW846 8270C	Semivolatile Organics		1	60583					
SW846 8260B	Volatile Organics		1	59573					
İ	-								

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 02/16/2004

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements will be noted in a case narrative. Report Comments

- All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Glossary of flags and qualifiers.

Inorganic Qualifiers (Q-Column)

- U Indicates that the compound was analyzed for but not detected.
- 1 Result fails applicable drinking water standards.
- * Duplicate analysis not within control limits.
- N Spiked sample recovery not within control limits.
- E Indicates an estimated value because of the presence of interferences.
- W Post digestion spike for furnace AA analysis is out of the control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- + Correlation coefficient for the MSA is less than 0.995
- B The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Organic Qualifiers (Q-Column)

- U Indicates that the compound was analyzed for but not detected.
- J Indicates an estimated value. This compound meets the identification criteria, but the result is less than the specified detection limit.
- B Indicates that the analyte was found in both the sample and its associated laboratory blank.
- D Indicates all compounds identified in an analysis at a secondary dilution factor.
- E Indicates that the analyte in an analysis has exceeded the linear calibration range.

Glossary of Terms

Surrogates (Surrogate Standards) - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For semi-volatiles, volatiles and pesticides/Arochlors, surrogate compounds are added to every blank, sample, matrix sample, matrix spike, matrix sample duplicate, matrix spike blank, and standard. These are used to evaluate analytical efficiency by measuring recovery. Poor surrogate recovery may indicate a problem with the sample composition.

Matrix Spike - an aliquot of a sample (water or soil) fortified (spiked) with known quantities of specific compounds (target analytes) and subjected to the entire analytical procedure in order to indicate the appropriateness of the method for the matrix by measuring recovery. The spiking occurs prior to sample preparation and analysis. Poor spike recovery may indicate a problem with the sample composition.

Internal Standards - an organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process. For GC/MS semi-volatiles and volatiles, internal standards are added to every blank, sample, matrix spike, matrix spike duplicate, matrix spike blank, and standard. Internal standard responses outside of established limits will adversely affect the quantitation and final concentration of target compounds.

Attention: Joe Covati STES - Glen Cove 100 Morris Avenue Glen Cove, NY 11542



CHAIN OF CUSTODY

315 Fullerton Avenue Newburgh, NY 12550 TEL (914) 562-0890 FAX (914) 562-0841

ADDRESS ADDRESS ADDRESS CITY, STATE, ZIP CITY, STATE, ZIP CITY, STATE, ZIP CITY, STATE, ZIP CITY, STATE, ZIP CITY, STATE, ZIP COUNTACT NAME OF CONTACT PROJECT LOCATION PROJECT NUMBER/ PONO. 1317 PROJECT NUMBER/ PONO. 12-16 1-2-16	THE STEEL ST	11542 PHONE NO. 874-6032 874-6032 CLIENT I.D. MW 109 MW 109 MW 109 MW 120 m/s repuestion MW 120 m/s repuestion MW 120 B	O O O O O O O O O O O O O O O O O O O	W W W W W W Aom Glass HCL	WW WW WW WW Caring Stiff Washed Circle Washe	Liter Plastic Sodium Pydroxide Liter Substitute Substit	Gildic A		NORMAL VERBAL VERBAL Sterile 250ml Amber 2 oz. Qorpak		REPORT # (Lab Use Only) TEMP BLANK Y N N N N PH CHECK Y N N N N PUBLIC WATER SUPPLIES REVIEWED BY SOURCE ID N N PUBLIC WATER SUPPLIES ANALYSIS REQUESTED ANALYSIS REQUESTED ANALYSIS REQUESTED ANALYSIS REQUESTED ANALYSIS REQUESTED
COMP GRAB		MATINA INTIND	ma man	W W W S Containers	WW W Corganic Wass	Mitric Acid Liter Plastic Sodium Hydre	Lite Plastic	250ml Plastic	250ml Amber	2 oz. Qorpak	ANALYSIS REQUI
<u>~ ~ > </u>		121 8 021 0	-		ω ω 					= =	-
4			0		3					7	7
	COMPANY	DATE		TIME		REC	RECEIVED BY				
	COMPANY	DATE		TIME		REC	RECEIVED BY				COMPANY DATE

COMMENTS

MONITORING WELL INFORMATION

complete

Date:

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 170 B	Well Diameter:	-6	Gallons/Ft. /,5
Depth of Well, (Ft.)		53.6	30
Depth to Water, (Ft.)		231	
Depth of Water, (Ft.)		30 ,	70
Volume of Well, (Gals.)		19.6	

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	1230	2310						
1	105	2576						
2	1:45	25.26						
3	7:13	24.48						

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9

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Completé

MONITORING WELL INFORMATION

Date:

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 1/9	Well Diameter: 75 4 Gallons/Ft. 0.65
Depth of Well, (Ft.)	36.38
Depth to Water, (Ft.)	22.86
Depth of Water, (Ft.)	13,52
Volume of Well, (Gals.)	8.78

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial		72.86						
1		24.68						
2	6.31	75.08						
3	8345	23.96						

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

CCEAR a SELFIDE ORORS

MONITORING WELL INFORMATION

Date: 12-16-03

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 104	Well Diameter:	4	Gallons/Ft.	0.65
Depth of Well, (Ft.)		72.70		
Depth to Water, (Ft.)		18:62		
Depth of Water, (Ft.)		3.58		
Volume of Well, (Gals.)		2.37		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	822	18.62					N°,	
1	831	19.50						
2	855	19.12				1,000		
3	915	19.47						

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

DARK BLACKISH LATTE OPER PARTICULATES

MONITORING WELL INFORMATION

Property Address: Pelham Bay

orpic 15 Date: 12/16/03 Sampler: Joseph M. Covati Jr.

Monitoring Well Characteristics

Well No. 109	Well Diameter: Z'	Gallons/Ft.
Depth of Well, (Ft.)	21.0	-2
Depth to Water, (Ft.)	16.19	1
Depth of Water, (Ft.)	5.0	28
Volume of Well, (Gals.)		·8

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	10.45	16.19						
1	11:34	16.44						
2	11:40	16.62						
3	11:45	17.20						

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
(2)	0.16	6	1.5
9	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9



MONITORING WELL INFORMATION

Date:

12-16-03

Sampler:

Joseph M. Covati Jr.

Compation 10

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 171	Well Diameter: 4	Gallons/Ft.
Depth of Well, (Ft.)	2) 360.4	12
Depth to Water, (Ft.)	1) 19.2	
Depth of Water, (Ft.)		
Volume of Well, (Gals.)		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	10:33	142						
1	11:28	19.4						
2	11:58	19.72						
3	17:20	20.2						

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9

BUNCH SUFFIDE OWN

MONITORING WELL INFORMATION

Date:

12-16-03

Sampler:

Joseph M. Covati Jr.

Compress

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 170	Well Diameter:	4	Gallons/Ft.	0.65
Depth of Well, (Ft.)		87		
Depth to Water, (Ft.)		21.20		.>
Depth of Water, (Ft.)		65.8		
Volume of Well, (Gals.)		41.7		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	900	21.20						
1	1018	39,90						
2	11/3	67.94						
3	12:10	66.84						

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

MONITORING WELL INFORMATION

Date:

12-16-03

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Wac is ARY M

Monitoring Well Characteristics

Well No. 14	Well Diameter:	こ	Gallons/Ft.	2,16
Depth of Well, (Ft.)		13.7	20	
Depth to Water, (Ft.)		١Į,	52	
Depth of Water, (Ft.)		1.	68	
Volume of Well, (Gals.)		0.	26	

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial								
1								
2					-			
3								

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9

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SEVERN TRENT ENVIRONMENTAL SERVICES 100 MORRIS AVENUE GLEN COVE, NY 11542

MONITORING WELL INFORMATION

Date: 12-16-3

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Well is Ary

Monitoring Well Characteristics

Well No. Well Dis	meter:	Gallons/Ft.
Depth of Well, (Ft.)	70.60	
Depth to Water, (Ft.)	20.50	
Depth of Water, (Ft.)	_	<u> </u>
Volume of Well, (Gals.)		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	_							
1								
2								
3								

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

MONITORING WELL INFORMATION

Date: 12-16-03

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Will is Day

Monitoring Well Characteristics

Well No. 118	Well Diameter:	4"	Gallons/Ft.	0.65
Depth of Well, (Ft.)		21.2	2	
Depth to Water, (Ft.)		19.4	2	
Depth of Water, (Ft.)		1.8	Ü	
Volume of Well, (Gals.)		1.17		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	рН	ORP	Turb.
Initial	743/10							
1								
2								
3		-			,			

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

A.N.B

S:WarmFelhant) O&Munspection Formatholler place formalindividual well sampling log, pelham.do

MONITORING WELL INFORMATION

Date:

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Py FISHERMAN BUTTELS & CANS

Monitoring Well Characteristics

Well No.	Well Diameter: 106	Gallons/Ft.
Depth of Well, (Ft.)		
Depth to Water, (Ft.)		
Depth of Water, (Ft.)		
Volume of Well, (Gals.)		

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial								
1								
2								
3								

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9

MONITORING WELL INFORMATION

Date:

12/16/03

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 113	Well Diameter	r: 4	Gallons/Ft.
Depth of Well, (Ft.)		15,20	
Depth to Water, (Ft.)		12.90	
Depth of Water, (Ft.)		2.30	
Volume of Well, (Gals.)		1.5	

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	рН	ORP	Turb.
Initial	10:40	12.9						
1								
2								
3								

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2.6
4	0.65	10	4.1
5	1.0	12	5.9

5,5 B

S:\barb\"ettern010fcM\inspection Forms\boiler plate forms\individual well strapling log, pelham.de

MONITORING WELL INFORMATION

Date: 12/16/63

Sampler:

Joseph M. Covati Jr.

Property Address: Pelham Bay

Monitoring Well Characteristics

Well No. 122	Well Diameter: (/	Gallons/Ft.
Depth of Well, (Ft.)	4/ 30	
Depth to Water, (Ft.)	2/:30	
Depth of Water, (Ft.)	2000	
Volume of Well, (Gals.)	(13)	

Sampling and Purging of Monitoring Wells

Purge Volume (Casings)	Time	Depth to Water	Temp	Spec C	DO	pН	ORP	Turb.
Initial	10:37	21.3						
1	226	19.90						
2	235	19.80						
3	2:45	19.62						

Conversion Chart

Well Diameters	Gallons/Ft.	Well Diameters	Gallons/Ft.
2	0.16	6	1.5
3	0.37	8	2,6
4	0.65	10	4.1
5	1.0	12	5.9



TCED TEA COLOR GALHAR ODER STHOOL

Severn Trent Environmental Services



Gas Analysis

LANDFILL GAS MANAGEMENT SYSTEM PELLIAM BAY LANDFILL REFERENCE VOLUME III SECTION 5

Date Inspector

					11.00			
Location	Concen	Concentration by % Vo	Volume	Temp.	rac. (g well	04	į	Remarks
	Methane	CO	Охуден	(E)	(In W.C.)	<u> </u>	ובר	٠
Flare Inlet	\ \ !		ļ	\	\	\	\	Not remaind
Well Head No. I	5,89	31.0	0.0	<u>ئ</u> ك	40,90	10.76	1370	
Well Head No. 2	60.3	34.8	010	436	30,01	- 0.36	1206	
Well Head No. 3	0.00	36.7	2.0	20,0	41.20	2011 -	1200	
Well Head No. 4	dida	33,4	0.0	מת מ	41,40	77.1-	1332	
Well Head No. 5	55.8	むhh	010	201	1.20	7117	1706	
Well Head No. 6	6816	192	50	629	ナンプ	70.1-	1372	
Well flead No. 7	56.5	43.5	010	72	11.80	1,59	1130	
Well Head No. B	129	37.9	0'0	32	8,7	2717	1247	
Well Head No. 9	24.5	35.2	0,0	630	7 b.0 +	5111-	1144	
Well Head No. 10	62.6	244	0.0	٠١٦	41,10	8810-	1252	
Well Head No. 1	Fail	39.3	0,0	20	+1,23	-1.03	182	
well Head No. 12	153.7	35.0	0.0	47	860 +	-1,02	J-92\	
well Itend No. 13	56.3	39.7	0,0	22	4114	- 0.93	177	
Well Hend No. 14	6113	36.3	0.0	, <u>8</u> 17	+1,18	-1:31	1226	
Well Hend No. 15	57.5	42,5	0.0	۱23°	41,60	211-	150	
Well Head No. 16	29.7	38,2	0,0	515	1,52	135	100	
Well Head No. 17	64.0	43,0	0,0	1170	47.8	15/1 "	3	
Well Head No. 18	621	36.8	0.0	م درلارد	41.19	217	1242	
Well Head No. 19	62.9	36,9	0.0	300	ナルカ	+2.1-	1258	
Well Hend No. 20	1.89	40,9	010	87.	*1130	41.1	11872	-
Well Head No. 21	57.16	35.7	0,1	45,	+1,92	- 1.63	1052	
Well Head No. 22	6415	35.2	0.0	3/6	41.83	151	0621	

Severn Trent Environmental Services



Appendix B – Inspection Forms for December 2003

FORM FCS-1 MONTHLY INSPECTION CHECKLIST FINAL COVER SYSTEM PELHAM BAY LANDFILL, BRONX, NEW YORK

(Reference Volume III, Figure 2-1)

Item	Item						7	Zone N	lumb	er					
No.	Title	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Surface Cracks	OK	ОК	ОК	ОК	ОК	OK	N/S	OK	ОК	ОК	ОК	OK	ОК	OK
2	Vegetative Growth	OK	OK	OK	ОК	ОК	ОК	ОК	N/S	OK	ОК	ОК	OK	OK	OK
3	Vector Penetration	OK	ОК	OK	OK	OK	OK	OK	ОК	OK	OK	OK	OK	ОК	OK
4	Settlement	OK	OK	OK	ОК	OK	OK	OK	ОК	OK	ОК	OK	OK	OK	OK
5	Erosion	OK	OK	ОК	OK	ОК	OK	N/S	N/S	OK	OK	OK	ОК	OK	OK
6	Slope Stability	OK	ОК	ОК	ОК	ОК	OK	ОК	ОК	OK	ОК	ОК	OK	ОК	OK
7	Seepage	OK	ОК	ОК	ОК	ОК	OK	ОК	OK	ОК	OK	OK	ОК	ОК	OK
8	Vandalism	ОК	ОК	ОК	ОК	OK	ОК	ОК	N/S	ОК	OK	ОК	OK	OK	OK

Notes:

- 1. Use a check in the checkbox to indicate that the specific item number in the zone has been inspected and no problems were noted.
- 2. Use "NS" (Not Satisfactory) where problems are noted.
- 3. For boxes checked NS, on Form DP-1, a description of deficiency/problem. Attach additional sheets if necessary

Date: December 16, 2003 Initials: KMB

FORM DP-1 DESCRIPTION OF DEFICIENCEIES AND PROBLEMS PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
FCS-1			
_			
_	7	Rill by pond c inlet	Need to fill and re-
			seed
		-	
-	8	10'x8' area of sparse vegetative	
		growth	
		<u></u>	
		_	
		_	
_	_		
		_	
		_	
	_		

DATE: December 16, 2003 INSPECTED BY: KMB

FORM GWL-2 MONTHLY INSPECTION CHECKLIST MANHOLE AND SUMPS GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

DATE: 12/10/03

INITIALS: KMB

Item	Inspection				Man	Manhole and S	Sump Number	umber			
No.	Item	D-1	D-2	D-3	D-4	D-5	9-Q	D-7	D-8	D-9	D-10
1	Manhole Cover	OK	OK	S/N	S/N	S/N	S/N	OK	OK	OK	OK
2	Silt Accumulation	Slight	OK	OK	Slight	S/N	OK	OK	Slight	OK	OK
3	Settlement	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Pipe Connections	OK	OK	OK	OK	S/N	OK	OK	OK	OK	OK
5	Settlement Along										
	Curtain Drain	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
9	Flow into manhole										
	or sump	High	Low	High	Low	Dry	Empty	High	High	Dry	Low

Item	Inspection					Manhole	and Sump	Manhole and Sump Number				
140.	III	LS-1	LS-2	DS-1	DS-2	TS-1	U-1	U-2	U-3	U-4	C-2	9-N
1	Manhole Cover	OK	OK	S/N	OK	S/N	OK	OK	OK	OK	OK	
2	Silt Accumulation	Slight	Heavy	Mod.	Slight	OK	OK	OK	Slight	OK	1	•
3	Settlement	OK	OK	OK	OK	OK	OK	OK	OK	Slight	OK	
4	Pipe Connections	OK	OK	OK	OK	S/N	OK	OK	OK	OK		
S	Settlement Along			:								ı
	Curtain Drain	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	
9	Flow into manhole											
	or sump	High	Low	Low	High	Low	High	Dry	Low	High	Full	

FORM DP-1 DESCRIPTION OF DEFICIENCEIES AND PROBLEMS PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
GWL-2	D-3	crack in manhole cover	
	D-4	crack in manhole cover	
	D-5	crack in manhole cover & settlement	
	D-1	slight silt accumulation	
	D-6	crack in manhole cover, not a H20	
		cover	
	D-6	Empty	
	LS-1	slight silt accumulation	
	U-4	slight silt accumulation	
	DS-1	Hatch cover broken	
	U-4	Manhole full due to high tide	
		-	
_			
_			
_			-
_			
-		-	

DATE: 12/10/03 INSPECTED BY: KMB

FORM SMS-1 MONTHLY INSPECTION CHECKLIST STORMWATER DRAINAGE DITCHES STORMWATER MANAGEMENT SYSTEM PELHAM BAY LANDFILL, BRONX, NEW YORK

(Reference Volume I, Figures 2-2 and 2-3

Item	Item						Z	one N	lumbe	er					
	Title	1	2	3	4	5	6	7	8	9	10	11	12	13	14
No.	Drainage Ditch Road A						2.11		711				2.70		
1	Overgrown Vegetation	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11.1.1.1	
2	Standing Water	OK	ОК	OK	OK	OK	ОК	OK	ОК	OK	OK	OK	OK		
3	Sediments and Debris	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	ОК	OK		
4	Erosion/Washouts	OK	OK	OK	OK	OK	ОК	OK	OK	OK	OK	ОК	OK		
5	Sinkholes	ОК	ОК	ОК	OK	OK	OK	OK	OK	OK	OK	ОК	ОК		
6	Culvert Road A to Road B					1000	op de h	y	OK		35/15470		≯i e.:		
7	Flapgate at 6" pipe Outlet	÷.				S. A. A.	Account	SP Carrier	OK	1.38(3)	dien		104	1,146.0	
	Drainage Ditch, Road B		1, 127	ç':							Arri A				
1	Overgrown Vegetation	NS	NS	NS	NS	NS	NS	OK	OK	NS	NS	NS	NS	1000	
2	Standing Water	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	100	
3	Sediments and Debris	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	100	
4	Erosion/Washouts	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		500 5700
5	Sinkholes	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		de Saphadhig S
6	Culvert Road B to Road C			ablantion is	Clinic _e	i de Santa	0.50		OK				-63	A Thur	35.54
	Drainage Ditch, Road B ²		1. 50	··• • ».«	v sako pini r sako pini	A biks			7 W.Y. #4		haaramovedeva Figure		AGE:		
1	Overgrown Vegetation	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2	Standing Water	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3	Sediments and Debris	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Erosion/Washouts	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
5	Sinkholes	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	ОК
6	Culvert Road B to Road C	,						1. 1.99					4. 1		
	Drainage Ditch, Road C	- 7 A .	2.115	Variable 1	Mahagai	i wak			77 127		10191	884	Alegeis Kankan	10.00	1.000
1	Overgrown Vegetation	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2	Standing Water	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3	Sediments and Debris	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Erosion/Washouts	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
5	Sinkholes	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Notes:

- 1. Use a check in the checkbox to indicate that the specific item number in the zone has been inspected and no problems were noted.
- 2. Use "NS" (Not Satisfactory) where problems are noted.
- 3. For boxes checked NS, on Form DP-1, a description of deficiency/problem. Attach additional sheets if necessary

Date: 12-12-03 Initials: KMB

FORM DP-1 DESCRIPTION OF DEFICIENCEIES AND PROBLEMS PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
SMS-1	zone		
road A	1-12	Over grown vegetation in all swales	
road B	1-6	Over grown vegetation in all swales	
	9-12	With the exception of zones 7 and part	
		Of 8 which were cleared by STES	
1.00	1 14		
road B2	1-14	Over grown vegetation in all swales	
		_	
	-		
			_

DATE: 12/12/03 INSPECTED BY: KB

FORM SMS-2 MONTHLY INSPECTION CHECKLIST STORMWATER DRAINAGE DITCHES STORMWATER MANAGEMENT SYSTEM PELHAM BAY LANDFILL, BRONX, NEW YORK

(Reference Volume I, Figures 2-2 and 2-3

	Stormy	vater (Collecti	on Ma	nholes	(SP Se	ries)					
Item	Item					Manl	hole Nu	ımber				
No.	Title	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11
1	Trashracks	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
2	Silt Accumulation	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
3	Pipe Connections to Manhole	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
4	Flow From 8" HDPE Inlets	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
5	Debris/Silt Blockage in 24" Pipe	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
6	Settlement Along 24" Pipe	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
7	Settlement Around Manhole	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
8	Baffles Inside Manhole	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

	Pond Collection Manho	les (CF	Series	s)		
Item	Item		Manl	hole N	umber	
No.	Title	CP1	CP2	CP3	CP4	CP5
1	Grates	OK	OK	OK	OK	OK
2	Silt Accumulation	OK	OK	OK	OK	OK
3	Flow Through Manhole	OK	OK	OK	OK	OK
4	Settlement Above 30" Pipe	OK	OK	OK	OK	OK

	Baffled Outlets (BO	Series)	ı		
Item	Item	l N	Manhol	e Numb	er
No.	Title	BO1	BO2	BO3	BO4
1	Silt Accumulation	OK	N/S	N/S	N/S
2	Connection to 24" Pipe	OK	OK	OK	OK
3	Erosion Around Structure	OK	OK	OK	OK
4	Spalling, Cracking, etc.	OK	OK	OK	OK
5	Weep Holes	OK	OK	N/S	N/S
6	Guard Rails	OK	OK	OK	OK

Notes:

- 1. Use a check in the checkbox to indicate that the specific item number in the zone has been inspected and no problems were noted.
- 2. Use "NS" (Not Satisfactory) where problems are noted.
- 3. For boxes checked NS, on Form DP-1, a description of deficiency/problem. Attach additional sheets if necessary

Date: 12-11-03 Initials: KMB

FORM DP-1 DESCRIPTION OF DEFICIENCEIES AND PROBLEMS PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
SMS-2	BO2	silt, silt rocks in weep holes	
	BO3	silt, silt rocks in weep holes	
	BO4	silt, silt rocks in weep holes	
			_

DATE: 12/11/03 INSPECTED BY: KB

FORM SMS-3 MONTHLY INSPECTION CHECKLIST SEDIMENTATION PONDS STORMWATER MANAGEMENT SYSTEM PELHAM BAY LANDFILL, BRONX, NEW YORK

(Reference Volume I, Figure 2-3)

	Inspection Item	Check Box			Check Box
S	Sedimentation Pond A	250%		Sedimentation Pond C	25012
	Pond			Pond	
1	Minimum 2 ft. Freeboard	OK	1	Minimum 2 ft. Freeboard	OK
2	Silt Accumulation	N/S	2	Silt Accumulation	N/S
3	Slope Erosion/Stability	OK	3	Slope Erosion/Stability	N/S
4	Debris	N/S	4	Debris	N/S
	Outlet Structure		5	Riprap	OK
1	Debris/Silt Blockage	OK		Inlet Structure	
2	Connections to Pipe	OK	1	Debris/Silt Blockage	N/S
3	Erosion Around Structure	OK	2	Connections to Pipe	OK
4	Spalling, Cracking, etc.	OK	3	Erosion Around Structure	OK
			4	Spalling, Cracking, etc.	OK
	Sedimentation Pond B		5 Riprap		OK
	Pond			RCP Inlet Section	
1	Minimum 2 ft. Freeboard	OK	1	Debris/Silt Blockage	N/S
2	Silt Accumulation	N/S	2	Connections to Pipe	OK
3	Slope Erosion/Stability	OK	3	Erosion Around Structure	OK
4	Debris	N/S	4	Spalling, Cracking, etc.	OK
	Inlet Structure		5	Weepholes	N/S
1	Debris/Silt Blockage	OK	6	Trashrack	OK
2	Connections to Pipe	OK	7	RC Pipe	
3	Erosion Around Structure	OK		RCP Outlet Section	
4	Spalling, Cracking, etc.	OK	1	Debris/Silt Blockage	OK
	Outlet Structure		2	Connections to Pipe	OK
1	Debris/Silt Blockage	N/S	3	Erosion Around Structure	OK
2	Connections to Pipe	OK	4	Spalling, Cracking, etc.	OK
3	Erosion Around Structure	OK	5	Trashrack	OK
4	Spalling, Cracking, etc.	OK	6	Flapgate	OK
			7	Spillway Riprap	OK

Notes:

- 1. Use a check in the checkbox to indicate that the specific item number in the zone has been inspected and no problems were noted.
- 2. Use "NS" (Not Satisfactory) where problems are noted.
- 3. For boxes checked NS, on Form DP-1, a description of deficiency/problem. Attach additional sheets if necessary

Date: 12-11-03 Initials: KMB

FORM DP-1 DESCRIPTION OF DEFICIENCEIES AND PROBLEMS PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
SMS-3	Pond A	Silt and debris in Pond	
	Pond B		
	outlet	Silt and debris	
	pond_	Silt and debris accummulation	
	D 10		
	Pond C	Silt and debris in Pond	
		Erosion rill on embankment of pond	
	Inlet	Silt and debris	
	RCP Inlet	Silt and debris	
	Weephole	Blocked with silt and debris	

DATE: 12/11/03 INITIALS: KB

FORM AS-1 MONTHLY INSPECTION CHECKLIST ACILLARY SYSTEMS

PELHAM BAY LANDFILL, BRONX, NEW YORK

(Reference Volume I, Section 2.2 and Volume III, Section 6)

	Description		If N/S or NI, description and location
IRM R	oadway		
1	Rutting	OK	
2	Depressions/Settlement	OK	
3	Washout	OK	By lift station 1 3' X 2'
4	Pavement Condition	OK	
5	Reflectors	N/S	
Road A			
1	Rutting	OK	
2	Depressions/Settlement	OK	
3	Washout	OK	Small washout in zone 5-6
4	Pavement Condition	ОК	
5	Reflectors	N/S	
Road B	,		
1	Rutting	OK	
2	Depressions/Settlement	ОК	
3	Washout	ОК	
4	Pavement Condition	OK	
5	Reflectors	N/S	
Road B	2		
1	Rutting	OK	
2	Depressions/Settlement	OK	
3	Washout	NS	
4	Pavement Condition	NS	
5	Reflectors	N/S	
Road C			
1	Rutting	OK	
2	Depressions/Settlement	OK	
3	Washout	NS	Small washout as entering road C
4	Pavement Condition	NS	
5	Reflectors	N/S	
	ter Fence, Gates, Locks	N/S	
Seawall	l Condition	OK	

Notes:

- Use a check in the checkbox to indicate that the specific item number in the zone has been inspected and no problems
 were noted.
- 2. Use "NS" (Not Satisfactory) where problems are noted.
- 3. For boxes checked NS, on Form DP-1, a description of deficiency/problem. Attach additional sheets if necessary

Date: 12/17/03 Initials: KMB

FORM DP-1 **DESCRIPTION OF DEFICIENCEIES AND PROBLEMS** PELHAM BAY LANDFILL, BRONX, NY

FORM NO.	LOCATION	DESCRIPTION OF PROBLEM	CORRECTIVE ACTION
AS-1	IRM	reflectors missing, weeds encroaching	
		rutting starting along the road way	
	Road A	reflectors missing, weeds encroaching	
		, slight rutting causing filter cloth to	
		show_	
	Road B	reflectors missing, weeds encroaching	
	Road B2	reflectors missing, weeds encroaching	
	Road C	reflectors missing, weeds encroaching	
	Roads	washout and rutting at	
	В2-С	intersection of roads	
	_	filter fabric visible	
	fence	nine openings in fence	
		worn path to hole in fence in	
		zone 4	
		fence support pole bent in	
		area across from Pond A	
	Fence	D-10, MW-118, MW-106, MW-119,	
	hole	MW-120, 2 holes between MW-120 &	
	locations	MW-104, MW-104, SW-1	

DATE: 12-17-03

INSPECTED BY: KMB

FORM LFG-1 WEEKLY(TWICE WEEKLY) INSPECTION CHECKLIST LANDFILL GAS MANAGEMENT SYSTEM

PELHAMBAY LANDFILL (REFERENCE VOLUME III, SECTION 5)

	Date [12/1/2003		12/5/2003	
	Time		7:00	7:00		
	Technician		KMB		KMB	
1.OPERATING BLOWER 1 OR 2		1	2	1	2	
Noise or Vibration		Ok	N/A	Ok	N/A	
B. Measureable or Oderiferous Gas Leaks		No	_Yes	No	Yes	
C. Upstream Vacuum-Inches WC		0		0		
D. Downstream Pressure -Inches WC						
E. Inlet Temperature-Degree F						
F. Discharge Temperature-Degree F						
2. BLOWER CONTROL PANEL						
A. Disconnnect Blower 1 and 2 Switch						
B. Flow Meter-CFM, Min & Max						
C. Hour Meter Blower 1 (Zero=)			O/S		O/S	
Blower 2 (Zero=)			13111.1		13111.1	
D. Blower 1 or Blower 2 Running Light		1	2	1	2	
E. The Blower Hand-Off_Auto Switch		Off	Auto	Off	Auto	
F. Blower 1 or 2 Current Alarm		Off	On	Off	On	
G. High Motor Current Alarm		Off		Off		
H. Reset Alarm						
3. FLARE CONTROL PANEL						
A. Panel Power Switch		Off	On	Off	On	
B. Panel Power Light		Off	On	Off	On	
C. Start-Up Sequence Switch		Auto				
D. Local Unit Control Switch		Start/Run	Stop	Start/Run	Stop	
E. Unit Stop						
F. Security Light		Off	On	Off	On	
G. Purge Start						
H. Low Purge Air Flow, Red Indicator Ligh	t	Off	On	Off	On	
I. Purging, Blue Indicator Light		Off	On	Off	On	
 J. Purge Complete, Amber Indicating Light 	t	Off	On	Off	On	
K. Ignition Start						
L. Pilot Gas On, Green Indicator Light		Off	On	Off	On	
M. Flame Proved, Green Indicator Light		Off	On	Off	On	
N. Waste Inlet Valve		С	O Auto	С	O Auto	
O. Waste Gas On, Green Indicator Light		Off	On	Off	<u>On</u>	
P. Flare Reset						
Q. Waste Gas Blower Failure, Red Indicat		Off	On	Off	On	
R. High Flare Temperature, Red Indicator	Light	Off	On	Off	On	
S. Flare Failure, Red Indicator Light		Off	On	Off	On	
4. FLARE						
A. Flame Condition		Good	N/A	Good	N/A	
B. Abnormal Burner Hotspots		Yes	No	Yes	No	
C. Unusual Sounds or Odors		Yes	No	Yes	No	
D. Damper Motor Running		Yes	No	Yes	No	
	Manual Damper Postion					
5. PIPING	=					
A. General Condition				OK		
3. Propane Tank Pressure/Level-PSIG		20 25	80	20	80	
C. Inlet Valve Position			% Open	25	% Open	
D. LFG Flowrate-CFM			A1 -	Var		
E. Gauges Operational?		Yes	No 700	Yes	No	
F. Nitrogen Pressure-PSIG		100	700	100	700	
6. SITE CONDITION		Cand	Dod	C	D= -1	
Vandalism, Cleanliness		Good	Bad	Good	Bad	
R	eviewed By	4.	2/4/2022		VE 10000	
	Date	17	2/1/2003	L 12	2/5/2003	

Comments Gas flow meter inoperable, no temperatures gauges - Gauges removed and plugged where temp gauges used to be. Down stream Dp cell missing and plugged

Having trouble with starting flare my be due to poor gas levels

FORM LFG-1 WEEKLY(TWICE WEEKLY) INSPECTION CHECKLIST LANDFILL GAS MANAGEMENT SYSTEM PELHAMBAY LANDFILL (REFERENCE VOLUME III, SECTION 5)

	(KEFEKENC				
	Date		/8/2003	12	/12/2003
	Time		7:00		7:00
	Technician	1	KMB		KMB
1.OPERATING BLOWER 1 OR 2		1	2	1	2
Noise or Vibration		Ok	N/A	Ok	N/A
B. Measureable or Oderiferous Ga	is Leaks	No	Yes	No	Yes
C. Upstream Vacuum-Inches WC		0	_	0	_
D. Downstream Pressure -Inches \	wc		_		_
E. Inlet Temperature-Degree F					_
F. Discharge Temperature-Degree	F F				
2. BLOWER CONTROL PANEL			_		
A. Disconnnect Blower 1 and 2 Sw	vitch		_		
B. Flow Meter-CFM, Min & Max			_		
C. Hour Meter Blower 1 (Zero=	:)		O/S		O/S
Blower 2 (Zero=	,		13111.1		13111.
D. Blower 1 or Blower 2 Running L		1	2	1	2
E. The Blower Hand-Off Auto Swit		Off	Auto	Off	Auto
F. Blower 1 or 2 Current Alarm		Off	On	Off	On
G. High Motor Current Alarm		Off		Off	
H. Reset Alarm					
3. FLARE CONTROL PANEL					
A. Panel Power Switch		Off	On	Off	On
B. Panel Power Light		Off	On	Off	On
C. Start-Up Sequence Switch		Auto		011	
D. Local Unit Control Switch		Start/Run	Stop	Start/Run	Stop
E. Unit Stop		Clarentali	Оюр	Otarvituri	
F. Security Light		Off	On	Off	On
G. Purge Start		011	OII		
	tor Light	Off	On	Off	<u>On</u>
H. Low Purge Air Flow, Red Indica	nor Light	Off		Off	On On
I. Purging, Blue Indicator Light	ina Liaht	Off	On On	Off	On On
J. Purge Complete, Amber Indicati	ing Light	OII _	_011	OII	On
K. Ignition Start	:	Off		0#	
L. Pilot Gas On, Green Indicator Li		Off	On	Off	On On
M. Flame Proved, Green Indicator	Light		On	Off	On
N. Waste Inlet Valve	- I :h-	C	O Auto	C	O Auto
O. Waste Gas On, Green Indicator	r Light	Off	On	Off	_ On
P. Flare Reset	d la dia atau liinki			0"	
Q. Waste Gas Blower Failure, Rec		Off	On	Off	On On
R. High Flare Temperature, Red Ir		Off	On	Off	On
S. Flare Failure, Red Indicator Ligh	nt	Off	On	Off	On
4. FLARE		<u> </u>			
A. Flame Condition		Good	N/A	Good	N/A
B. Abnormal Burner Hotspots		Yes	No	Yes	No
C. Unusual Sounds or Odors		Yes	No	Yes	No_
D. Damper Motor Running		Yes	No	Yes	No
Manual Damper Postion					
5. PIPING					
A. General Condition		OK		OK	
B. Propane Tank Pressure/Level-PSIG		20	80_	20	80
C. Inlet Valve Position		25	% Open	25	% Ope
D. LFG Flowrate-CFM					
E. Gauges Operational?		Yes	No	Yes	No
F. Nitrogen Pressure-PSIG		100	700	100	700
6. SITE CONDITION					
Vandalism, Cleanliness		Good	Bad	Good	Bad
	Reviewed By	Good	Bad	Good	Bad

Comments	Gas flow meter inoperable, no temperatures gauges - Gauges removed and plugged where
	to be. Down stream Dp cell missing and plugged

Having trouble with starting flare my be due to poor gas levels

FORM LFG-1 WEEKLY(TWICE WEEKLY) INSPECTION CHECKLIST LANDFILL GAS MANAGEMENT SYSTEM

PELHAMBAY LANDFILL (REFERENCE VOLUME III, SECTION 5)

	` D-4-	12/		40	10/2002
	Date	12/	15/2003	12/	19/2003
	Time		7:00 KMB		7:00 KMB
	Technician				
1.OPERATING BLOWER 1 OR 2		1	2	1	2
A. Noise or Vibration	-1	Ok	N/A	Ok	N/A
B. Measureable or Oderiferous Gas Le	eaks	No _	Yes	No	Yes
C. Upstream Vacuum-Inches WC		0		0	
D. Downstream Pressure -Inches WC			·		
E. Inlet Temperature-Degree F					
F. Discharge Temperature-Degree F					
2. BLOWER CONTROL PANEL					
A. Disconnnect Blower 1 and 2 Switch					
B. Flow Meter-CFM, Min & Max					- 0/0
C. Hour Meter Blower 1 (Zero=)		O/S		O/S
Blower 2 (Zero=)		13111.1		13111.1
D. Blower 1 or Blower 2 Running Light		1	2	1	2
E. The Blower Hand-Off_Auto Switch		Off	Auto	Off	Auto
F. Blower 1 or 2 Current Alarm		Off	On_	Off	On
G. High Motor Current Alarm		Off		Off	
H. Reset Alarm					
3. FLARE CONTROL PANEL					
A. Panel Power Switch		Off	On	Off	On
B. Panel Power Light		Off	On	Off	On
C. Start-Up Sequence Switch		Auto			
D. Local Unit Control Switch		Start/Run	Stop	Start/Run	Stop
E. Unit Stop					
F. Security Light		Off	On	Off	On
G. Purge Start					
H. Low Purge Air Flow, Red Indicator	Light	Off	On	Off	On
I. Purging, Blue Indicator Light		Off	On	Off	On
J. Purge Complete, Amber Indicating	_iaht	Off	On	Off	On
K. Ignition Start	3				
L. Pilot Gas On, Green Indicator Light		Off	On	Off	On
M. Flame Proved, Green Indicator Lig	ht	Off	On	Off	On
N. Waste Inlet Valve		C	O Auto	С	O Auto
O. Waste Gas On, Green Indicator Lig	iht	Off	On	Off	On
P. Flare Reset	,				
Q. Waste Gas Blower Failure, Red Inc	dicator Light	Off	On	Off	On
R. High Flare Temperature, Red Indic		Off	On	Off	On
S. Flare Failure, Red Indicator Light	ator Light	Off	On	Off	On
4. FLARE		<u> </u>			
A. Flame Condition		Good	N/A	Good	N/A
B. Abnormal Burner Hotspots		Yes	No	Yes	No
C. Unusual Sounds or Odors		Yes	No	Yes	No No
D. Damper Motor Running		Yes	No	Yes	No
Manual Damper Postion		169		169	
PIPING					
A. General Condition			_	οκ	
B. Propane Tank Pressure/Level-PSIG		OK	80	20	80
C. Inlet Valve Position		25	% Open	25	% Open
. Triet valve Position . LFG Flowrate-CFM					70 Open
. Gauges Operational?		Yes	No	Yes	No
E. Gauges Operational? F. Nitrogen Pressure-PSIG		100	700	100	700
		100	700	100	
6. SITE CONDITION		Good	Bad	Good	Bod
Vandalism, Cleanliness	D. 1	Good	Bad	Good	Bad
	Reviewed By		45/0000		40,000
	Date		/15/2003		/19/2003

Comments Gas flow meter inoperable, no temperatures gauges - Gauges removed and plugged where temp gauges used to be. Down stream Dp cell missing and plugged Having trouble with starting flare my be due to poor gas levels

FORM LFG-1 WEEKLY(TWICE WEEKLY) INSPECTION CHECKLIST LANDFILL GAS MANAGEMENT SYSTEM PELHAMBAY LANDFILL (REFERENCE VOLUME III, SECTION 5)

	Date		12/22/2003		12/26/2003	
	Time		7:00	7:00		
	Technician	ŀ	KMB		KMB	
1.OPERATING BLOWER 1 O	R 2	1	2	1	2	
A. Noise or Vibration		Ok	N/A	Ok	N/A	
B. Measureable or Oderiferou		No	Yes	No	Yes	
C. Upstream Vacuum-Inches		0		0		
D. Downstream Pressure -Inc						
E. Inlet Temperature-Degree						
F. Discharge Temperature-De						
2. BLOWER CONTROL PAN						
A. Disconnect Blower 1 and						
B. Flow Meter-CFM, Min & Ma			2.12			
C. Hour Meter Blower 1 (Z	,		O/S		O/S	
Blower 2 (Z	,		13111.1		13111.1	
D. Blower 1 or Blower 2 Runn		1	2	1	2	
E. The Blower Hand-Off_Auto		Off	Auto	Off	Auto	
F. Blower 1 or 2 Current Alarn	n	Off	On	Off	On	
G. High Motor Current Alarm		Off		Off		
H. Reset Alarm						
3. FLARE CONTROL PANEL	-	011	•	0#		
A. Panel Power Switch		Off	On	Off	On	
B. Panel Power Light		Off	On	Off	On	
C. Start-Up Sequence Switch		Auto	Ctor	Charte	Ctan	
D. Local Unit Control Switch		Start/Run	Stop	Start/Run	Stop	
E. Unit Stop		0//	0	0"	0-	
F. Security Light		Off	On	Off	On	
G. Purge Start			0	044	0.5	
H. Low Purge Air Flow, Red Ir	-	Off	On	Off	On	
I. Purging, Blue Indicator Ligh		Off	On	Off	On	
J. Purge Complete, Amber Inc	dicating Light	Off	On	Off	On	
K. Ignition Start		0"	0::	0"		
L. Pilot Gas On, Green Indica	-	Off	On	Off	On	
M. Flame Proved, Green India	cator Light	Off	On	Off	On	
N. Waste Inlet Valve	and and I deshad	C	O Auto	Off	O Auto	
O. Waste Gas On, Green Indi	cator Light	Off	On	Oii	On	
P. Flare Reset	Dad Indiantar Light	O#	0=	0"	0	
Q. Waste Gas Blower Failure		Off	On On	Off Off	On	
R. High Flare Temperature, R		Off Off	On	Off	On	
S. Flare Failure, Red Indicato	r Light	On	On	Oii	On	
4. FLARE		Cood	N/A	Cood	N/A	
A. Flame Condition		Good Yes	N/A No	Good Yes	N/A No	
B. Abnormal Burner HotspotsC. Unusual Sounds or Odors		Yes	No No	Yes	No No	
		Yes	No No	Yes	No No	
D. Damper Motor Running		168	NO	168	INO	
5. PIPING	Manual Damper Postion					
A. General Condition				ОК		
	B. Propane Tank Pressure/Level-PSIG		80	20	80	
C. Inlet Valve Position		20 25	% Open	25	% Open	
). LFG Flowrate-CFM			,0 Opcii		70 Opcil	
. Gauges Operational?		Yes	No	Yes	No	
F. Nitrogen Pressure-PSIG			600	100	600	
6. SITE CONDITION		100				
Vandalism, Cleanliness		Good	Bad	Good	Bad	
,	Reviewed By					
	Date	12/	22/2003	12.	/26/2003	
L	5010			121		

Gas flow meter inoperable, no temperatures gauges - Gauges removed and plugged where Comments temp gauges used to be. Down stream Dp cell missing and plugged

Having trouble with starting flare my be due to poor gas levels

FORM LFG-1 WEEKLY(TWICE WEEKLY) INSPECTION CHECKLIST LANDFILL GAS MANAGEMENT SYSTEM PELHAMBAY LANDFILL (REFERENCE VOLUME III, SECTION 5)

	Date		29/2003	12/	31/2003
	Time		7:00		7:00
	Technician			KMB	
1.OPERATING BLOWER 1 OF		1	2	1	2
A. Noise or Vibration		Ok	N/A	Ok	N/A
B. Measureable or Oderiferous	s Gas Leaks	No	Yes	No	Yes
C. Upstream Vacuum-Inches \	NC [0		ō	
D. Downstream Pressure -Inch	nes WC				
E. Inlet Temperature-Degree F	: [
F. Discharge Temperature-De					
2. BLOWER CONTROL PAN					
A. Disconnnect Blower 1 and 2					
B. Flow Meter-CFM, Min & Ma					
C. Hour Meter Blower 1 (Ze	· '		O/S		O/S
Blower 2 (Zo	. ,		13111.1		13111.1
D. Blower 1 or Blower 2 Runni		1	2	1	2
E. The Blower Hand-Off_Auto		Off	Auto	Off	Auto
F. Blower 1 or 2 Current Alarm	1	Off	On	Off	On
G. High Motor Current Alarm		Оп		On	
H. Reset Alarm					
3. FLARE CONTROL PANEL A. Panel Power Switch		Off	On	Off	On
B. Panel Power Light		Off	On	Off	On
C. Start-Up Sequence Switch		Auto		011	
D. Local Unit Control Switch		Start/Run	Stop	Start/Run	Stop
E. Unit Stop		Otarortan		Clarvitan	Otop
F. Security Light		Off	On	Off	On
G. Purge Start		<u> </u>		<u> </u>	
II	. Low Purge Air Flow, Red Indicator Light		On	Off	On
I. Purging, Blue Indicator Light		Off Off	On	Off	On
J. Purge Complete, Amber Ind		Off	On	Off	On
K. Ignition Start					
L. Pilot Gas On, Green Indicat	or Light	Off	On	Off	On
M. Flame Proved, Green Indic	ator Light	Off	On	Off	On
N. Waste Inlet Valve		С	O Auto	С	O Auto
O. Waste Gas On, Green Indi	cator Light	Off _	On	Off	On
P. Flare Reset					
 Q. Waste Gas Blower Failure, 		Off	On_	Off	On
R. High Flare Temperature, R		Off	On	Off	On
S. Flare Failure, Red Indicator	Light	Off	On	Off	On
4. FLARE		0.7.1		0	
A. Flame Condition		Good	N/A	Good	N/A
B. Abnormal Burner Hotspots		Yes Yes	No No	Yes	No
	C. Unusual Sounds or Odors		No	Yes	
D. Damper Motor Running Manual Damper Postion		Yes	No	Yes	No
5. PIPING					_
A. General Condition			_	ок	
3. Propane Tank Pressure/Level-PSIG		OK 20	80	20	80
C. Inlet Valve Position		25	% Open	25	% Open
D. LFG Flowrate-CFM					
E. Gauges Operational?			No	Yes	No
F. Nitrogen Pressure-PSIG		Yes 100	2200	100	2200
6. SITE CONDITION					
Vandalism, Cleanliness		Good	Bad	Good	Bad
	Reviewed By				
	Date	12/2	29/2003	12/	31/2003
<u></u>					

Comments	Gas flow meter inoperable, no temperatures gauges - Gauges removed and plugged where
temp gauges used	to be. Down stream Dp cell missing and plugged
	laving trouble with starting flare my be due to poor gas levels

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	12/1/2003						Initials					als	KMB										
Downgradient Collection Sumps			D	-1							D-	8							D-	10			ı
·	P	ump 1		F	ump 2	2																	
A. Circuit Breakers	X O	n _	Off	X	On		Off	X	On		Off	Χ	On		Off	Х	On		Off	X	On		Off
B. Running Light On	Ye	es X	No		Yes	X	No		Yes	Χ	No		Yes	X	No		Yes	Χ	No		Yes	X	No
C. Selector Switch	H C) A			H	0	_ A	H	0	Α			H	0	Α	H	0	<u> </u>			Н	0	Α
Position Han-Off Automatic (HOA)																							
D. Liquid Level in Sump pump	ΗL	_ 0						Н	L	0]					Н	L	0]				
E. Leak in Manifold Piping	Y	es X	No]					Yes	X	No						Yes	X	No				
	Pumps		ETM					'Pun	nps		ETM					Pun	nps		ETM				
	P-1		1314	5.5				P-1	•		1638	6.5				P-1	•		4241	3.4			
	P-2		1714	7.5				P-2			1471	3.2				P-2			4096	60.5			
Downgradient and Curtain Drain	·																						
A. Is there settlement	along a	lignme	ent of c	lown	gradie	nt			Yes	X	No												

curtain drain

3. D-1 Forcemain Flow Totalizer

585,587 x 100 =

\$. D-1 Forcemain Pressure

D-8 Pumps do not work in Auto Mode - P1 O/S

3.	LIFT STATION NO. 1	
B.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Normal X High Yes X No Yes X No
	Pumps ETM High Temp P-1 12958.2 P-2 2816.7	Seal Fail Fault
	Check liquid level in sump Check for leak in manifold leachate piping	Yes X Other No
4.	LIFT STATION NO. 2	
В.	Settlement along buried section of forcemain Are sump pumps operating Are the alarms or indicator lights on	High X No High X No Yes X No
	Pumps ETM High Temp P-1 881.9 P-2 1305.8	Seal Fail Fault
D.	Check liquid level around stop planks Is the level,	V X High Other
F.	Any leaks in the manifold discharge piping Check surface water in the Bay and Rip-Rap Are there any signs of leachate Check if a pump is out of service	Yes X No Yes X No Pump 1 Pump 2
5.	DECONTAMINATION TRAILER	
	Is the trailer clean/sanitary Is sump pump operating Yes	—

6.	DECONTAMINATION PAD/TRU	ICK FILL AREA	A AND SUMP		
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No	
	Pumps ETM P-1 35028.0 P-2 22065.0	High Temp	Seal Fail	Fault	
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		vel perimeter Ye		
F.	Truck Fill Totalizer 853743				
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP		
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No	
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault	
D.	Check liquid level in sump	Low	High	X Other	
E.	Is there any leak in the storage to manifold discharge piping	anks and	X Yes	No	
G.	Check if a pump is out of service	е	X Pump 1	Pump 2	
8.	CARBON ADSROPTION SYST	EM			
	Air Compressors on Activated carbon canisters open (On Line) ETM Blower 1 30806.5	ating	Yes Yes	X No	
۵	Blower 2	AINI DISCHAR	SE TO BOTH		
3 .	CONTRACT HP-877 FORCE M.	AIIA DISCHARC	SE TO POTW		
	Leakage from pipwork in valve be Settlement along alignment of for			X Yes Yes	X No

10. MOTOR CONTROL CENTER (MCC)

A. Are al	Il breakers, for the follow Lift Station No. 1 Lift Station No. 2 Decontamination Sur Storage Containment Site Lighting	mp	the ON position X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No
11. SEC	URITY TRAILER AND I	FENCING		
A. Sign-l	n-Review Visitors log a	nd Check-In with G	aurds	X Yes
	c cleanliness of trailer er clean		X Yes	No
	k Collection System Ala ge Tank Levels:	rm Panel N/A	1/4] 1/2 3/4Full
Alarm	Indicators: Lift Stations Sumps Storage Tanks		Yes No	
	security fencing surrou	nding the equipmer	nt in Yes	X No
Notes:	For noted deficiencies additional sheets if ne		vide description	n on form DP-1. Attached

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	12/5/200	3												Initi	als		K	ИB				
Downgradient Collection Sumps		D	-1				l			D-	8							D-	10			ı
·	Pump 1		F	ump :	2																	
A. Circuit Breakers	X On	Off	X	On		Off	Х	On		Off	X	On		Off	Х	On		Off	X	On		Off
B. Running Light On	Yes X	No		Yes	X	No		Yes	Х	No		Yes	X	No		Yes	Х	No		Yes	X	No
C. Selector Switch	H O A			Н	0	Α	Н	0	Α			H	0	Α	Н	0	Α	$oxed{L}$		Н	0	Α
Position Han-Off Automatic (HOA) D. Liquid Level in Sump pump	H L 0]					н	Ł	0						н	L	0]				
E. Leak in Manifold Piping	Yes X	No						Yes	X	No						Yes	X	No		•		
	Pumps	ETM					Pum	ıps		ETM					Pum	ps		ETM				
	P-1	1315	6.4				P-1			1638	6.5				P-1			4241	3.4			
	P-2	1715					P-2			1471	3.2				P-2			4096	80.5			
Downgradient and Curtain Drain																						
Δ Is there settlement	A Is there settlement along alignment of downgradient							Yes	X	No												

curtain drain

3. D-1 Forcemain Flow Totalizer 586,439 x 100 =

\$. D-1 Forcemain Pressure

D-8 Pumps do not work in Auto Mode - P1 O/S

3.	LIFT STATION NO. 1		
B.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Normal Yes Yes	X High X No X No
	Pumps ETM High Temp P-1 2962.9 P-2 2816.7	Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leachate piping	X High Yes	Other No
4.	LIFT STATION NO. 2		
B.	Settlement along buried section of forcemain Are sump pumps operating Are the alarms or indicator lights on	High High Yes	X No X No X No
	Pumps ETM High Temp P-1 881.9 P-2 1305.8	Seal Fail	Fault
D.	Check liquid level around stop planks Is the level,	X High	Other
	Any leaks in the manifold discharge piping Check surface water in the Bay and Rip-Rap	Yes	X No
	Are there any signs of leachate Check if a pump is out of service	Yes Pump 1	X No Pump 2
5.	DECONTAMINATION TRAILER		
	Is the trailer clean/sanitary Is sump pump operating Yes Yes	X No	

6.	DECONTAMINATIO	N PAD/TRU	CK FILL AREA	AND SUMP		
В.	Flow through sump of Are Sump Pumps Op Alarm indicator Light	perating	Low	X Normal Yes Yes	High X No X No	
	Pumps P-1 P-2	ETM 35028.0 22065.0	High Temp	Seal Fail	Fault	
E.	Check Decon-Area f Check for leak in ma Check if pump is out	nifold discha		el perimeter Yes		
F.	Truck Fill Totalizer	853743				
7.	LEACHATE STORA	GE CONTAI	NMENT AREA	AND SUMP		
В.	Flow through sump ware sump pumps operation Alarm indicator Light	erating	Low	X Normal Yes Yes	High X No X No	
		ETM 1970.2 3353.1	High Temp	Seal Fail	Fault	
D.	Check liquid level in	sump	Low	High	X Other	
E.	Is there any leak in the manifold discharge p		anks and	XYes	No	
G.	Check if a pump is o	out of service	•	X Pump 1	Pump 2	
8.	CARBON ADSROPT	TION SYSTE	M			
	Air Compressors on Activated carbon car (On Line)	nisters opera ETM 30806.5	ating	Yes Yes	X No	
9.	Blower 2 CONTRACT HP-877	FORCE MA	AIN DISCHARG	Е ТО РОТ W		
A.	Leakage from pipwo Settlement along alig	rk in valve b	ox beside Lift S	tation No. 1	X Yes	No X No

10. MOTOR CONTROL CENTER (MCC)

Α.	Are all breakers, for the following Lift Station No. 1 Lift Station No. 2 Decontamination Sump Storage Containment Sur Site Lighting		e ON position: X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No
11	. SECURITY TRAILER AND FEN	CING		
Α.	Sign-In-Review Visitors log and C	heck-In with Gau	urds	X Yes
В.	Check cleanliness of trailer Is trailer clean	[X Yes	No
C.	Check Collection System Alarm I Storage Tank Levels: N		1/4	1/2 3/4 Full
	Alarm Indicators: Lift Stations Sumps Storage Tanks	[Yes No	
D.	Is the security fencing surroundir good condition	g the equipment [in Yes	X No
No	otes: For noted deficiencies ar	•	ide description	on form DP-1. Attached

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	12/8/20	03										Initi	ials		K۱	ИB				
Downgradient Collection Sumps	1	D-1			I			D-8	8				I			D-	10			
o silo silo il o di lipo	Pump	1	Pump 2																	
A. Circuit Breakers	X On	Off X	On	Off	Х	On		Off	Х	On		Off	Х	On		Off	X	On		Off
B. Running Light On	Yes Y	(No	Yes	X No		Yes	X	No		Yes	X	No		Yes	Х	No		Yes	X	No
C. Selector Switch Position Han-Off Automatic (HOA)	H O A		Ĥ	0 A	Н	0	Α			Н	0	Α	Н	0	Α			Н	0	A
D. Liquid Level in Sump pump	H L C				Н	L	0						Н	L	0]				
E. Leak in Manifold Piping	Pumps P-1 P-2	ETM 13165.4 17167.5			Pum P-1 P-2	Yes	Х	No ETM 16386 14713					Pum P-1 P-2	Yes	X	No ETM 4241 4096	14			
Downgradient and Curtain Drain																				
A. Is there settlement along alignment of downgradient Yes X No curtain drain																				
3. D-1 Forcemain Flor	w Totalizer	587	7,023	x 100	=															
\$. D-1 Forcemain Pres	\$. D-1 Forcemain Pressure																			

D-8 Pumps do not work in Auto Mode - P1 O/S

3.	LIFT STATION NO. 1			
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low	Normal Yes Yes	X High X No X No
	Pumps ETM High P-1 2969.1 P-2 2816.7	n Temp	Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leachate p	Low	X High Yes	Other No
4.	LIFT STATION NO. 2			
В.	Settlement along buried section of fo Are sump pumps operating Are the alarms or indicator lights on	orcemain	High High Yes	X No X No X No
	Pumps ETM High P-1 881.9 P-2 1305.8	Temp	Seal Fail	Fault
D.	Check liquid level around stop planks is the level,	Low	X High	Other
F.	Any leaks in the manifold discharge particles of the Bay and Fare there any signs of leachate Check if a pump is out of service		Yes Yes Pump 1	X No X No Pump 2
5.	DECONTAMINATION TRAILER			
	Is the trailer clean/sanitary Is sump pump operating	Yes Yes	X No X No	

6.	DECONTAMINATION PAD/TRU	ICK FILL AREA	A AND SUMP	
В.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35031.8 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service	•	vel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
В.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ET M P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage to manifold discharge piping	tanks and	XYes	No
G.	Check if a pump is out of service	e	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYST	ЕМ		
	Air Compressors on Activated carbon canisters oper (On Line)	ating	Yes Yes	X No
9.	Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE M.	AIN DISCHAR	GE TO POTW	
	Leakage from pipwork in valve be Settlement along alignment of for			X Yes No

X Yes

X Yes

No

No

10. MOTOR CONTROL CENTER (MCC) A. Are all breakers, for the following equipment, in the ON position: Lift Station No. 1 Lift Station No. 2 **Decontamination Sump**

Yes No Storage Containment Sump Yes No Site Lighting Yes No

11. SECURITY TRAILER AND FENCING

Α.	Sign-In-Review Visitors log and Check-In with Gaurds	XYes
В.	Check cleanliness of trailer	

Is trailer clean	XYes	No

C. Check Collection System Alarm Panel Storage Tank Levels: N/A 1/2

Alarm Indicators: Yes Nο Lift Stations Sumps Storage Tanks

D. Is the security fencing surrounding the equipment in good condition Yes X No

Notes: For noted deficiencies and problems provide description on form DP-1. Attached additional sheets if necessary.

A-4

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST **GROUNDWATER/LEACHATE MANAGEMENT SYSTEM** PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	12/12/2003						Initials						ials	KMB								
Downgradient Collection Sumps		D-	1							D-	-8				I			D-	10			ı
	Pump 1		Р	ump :	2																	
A. Circuit Breakers	X On	Off	X	On		Off	Х	On		Off	Χ	On		Off	Х	On		Off	X	On		Off
B. Running Light On	Yes X	No		Yes	Χ	No		Yes	Χ	No		Yes	Χ	No		Yes	Х	No		Yes	X	No
C. Selector Switch	H O A			Н	0	Α	Н	0	Α			Н	0	Α	Н	0	Α			Н	0	Α
Position Han-Off Automatic (HOA) D. Liquid Level in	H L 0]					н	L	0]					н	L	0]				
Sump pump																						
E. Leak in Manifold Piping	Yes X	No						Yes	Х	No						Yes	Χ	No				
. •	Pumps	ETM					Pum	nps		ETM					Pum	ps		ETM				
	P-1	13177	7.2				P-1	•		1638	6.5				P-1			4241				
	P-2	17179	9.4				P-2			1471	3.2				P-2			4096	31.1			
Downgradient and Curtain Drain	·																					
A le thora sattlement	alana alianma	nt of do	····	radio	nt			Voc	~	No												

A. Is there settlement along alignment of downgradient Yes X No curtain drain

3. D-1 Forcemain Flow Totalizer 587,740 x 100 =

\$. D-1 Forcemain Pressure

D-8 Pumps do not work in Auto Mode - P1 O/S

3.	LIFT STATION NO. 1			
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low	Normal Yes Yes	X High X No X No
	Pumps ETM P-1 2986.0 P-2 2816.7	High Temp	Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leach	Low ate piping	X High Yes	Other No
4.	LIFT STATION NO. 2			
В.	Settlement along buried section Are sump pumps operating Are the alarms or indicator lights		High High Yes	X No X No No
	Pumps ETM P-1 881.9 P-2 1305.8	High Temp	Seal Fail	Fault
D.	Check liquid level around stop p Is the level,	lanks Low	X High	Other
F.	Any leaks in the manifold discha Check surface water in the Bay Are there any signs of leachate Check if a pump is out of service	and Rip-Rap	Yes Yes Pump 1	X No X No Pump 2
5.	DECONTAMINATION TRAILER	R		
	Is the trailer clean/sanitary Is sump pump operating	Yes Yes	X No X No	

6.	DECONTAMINATION PAD/TR	JCK FILL AREA	AND SUMP	
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35118.3 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disc Check if pump is out of service		vel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	AINMENT AREA	AND SUMP	
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No X No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage manifold discharge piping	tanks and	XYes	No
G.	Check if a pump is out of servi	ce	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYS	ГЕМ		
	Air Compressors on Activated carbon canisters ope (On Line) ETM Blower 1 30806.5	rating	Yes Yes	X No
9.	Blower 2 CONTRACT HP-877 FORCE N	MAIN DISCHARG	SE TO POTW	
	Leakage from pipwork in valve Settlement along alignment of			X Yes No

10. MOTOR CONTROL CENTER (MCC)

A. Are all	breakers, for the following equipmen Lift Station No. 1 Lift Station No. 2 Decontamination Sump Storage Containment Sump Site Lighting	t, in the ON position: X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No
11. SECU	JRITY TRAILER AND FENCING	
A. Sign-Ir	n-Review Visitors log and Check-In w	ith Gaurds X Yes
	cleanliness of trailer er clean	X Yes No
	Collection System Alarm Panel e Tank Levels: N/A	1/4 1/2 3/4 Full
Alarm I	Indicators: Lift Stations Sumps Storage Tanks	Yes No
	security fencing surrounding the equipondition	oment in Yes X No
Notes:	For noted deficiencies and problems additional sheets if necessary.	s provide description on form DP-1. Attached

A-4

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:		12/1 <u>5</u>	/200	3												Initi	als		K	/IB				
Downgradient Collection Sumps				D	-1				l			D-	-8							D-	10			
A. Circuit Breakers	X	Pun On	1p 1	Off	X	On	2	Off	X	On		Off	X	On		Off	х	On		Off	X	On		Off
B. Running Light On		Yes	X	No		Yes	X	No		Yes	Χ	No		Yes	Х	No		Yes	X	No		Yes	X	No
C. Selector Switch Position Han-Off Automatic (HOA)	Н	0	A			Н	0	Α	Н	0	Α			Н	0	Α	Н	0	A			H	Ö	A
D. Liquid Level in Sump pump	н	L	0]					Н	L	0]					Н	L	0]				
E. Leak in Manifold Piping		Yes	X	No						Yes	X	No						Yes	X	No				
	Pum	ıps		ETM					Pur	nps		ETM					Pum	ıps		ETM				
	P-1 P-2			1320 1720					P-1 P-2			1638 1471					P-1 P-2			424° 4096				
Downgradient and Curtain Drain																								
A. Is there settlement along alignment of downgradient Yes X No curtain drain																								
3. D-1 Forcemain Flow Totalizer 590,032 x 100 =																								

D-8 Pumps do not work in Auto Mode - P1 O/S

\$. D-1 Forcemain Pressure

3.	LIFT STATION NO. 1			
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low	Normal Yes Yes	X High X No X No
	Pumps ETM P-1 2997.6 P-2 2818.3	High Temp	Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold lead	Low chate piping	X High Yes	Other No
4.	LIFT STATION NO. 2			
В.	Settlement along buried section Are sump pumps operating Are the alarms or indicator ligh		High High Yes	X No X No X No
	Pumps ETM P-1 881.9 P-2 1305.8	High Temp	Seal Fail	Fault
D.	Check liquid level around stop Is the level,	planks Low	X High	Other
F.	Any leaks in the manifold disch Check surface water in the Bay Are there any signs of leachate Check if a pump is out of servi	y and Rip-Rap	Yes Pump 1	X No X No Pump 2
5.	DECONTAMINATION TRAILE	:R		
	Is the trailer clean/sanitary Is sump pump operating	Yes Yes	X No X No	

6.	DECONTAMINATION PAD/TRU	CK FILL AREA	A AND SUMP	
В.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35226.7 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		vel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
В.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage t manifold discharge piping	anks and	XYes	No
G.	Check if a pump is out of service	е	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYST	EM		
	Air Compressors on Activated carbon canisters open (On Line) ETM	ating	Yes Yes	X No
9.	Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE M.	AIN DISCHARO	GE TO POTW	
A.	Leakage from pipwork in valve b			X Yes No

A-3

10. MOTOR CONTROL CENTER (MCC)

A. Are all	breakers, for the follow Lift Station No. 1 Lift Station No. 2 Decontamination Sun Storage Containment Site Lighting	np	he ON position X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No No No No
11. SECU	JRITY TRAILER AND F	ENCING		
A. Sign-lı	n-Review Visitors log ar	nd Check-In with G	aurds	X Yes
	cleanliness of trailer er clean		X Yes	No
	Collection System Alar e Tank Levels:	rm Panel N/A	1/4] 1/2 3/4Full
Alarm	Indicators: Lift Stations Sumps Storage Tanks		Yes No	
	security fencing surrour ondition	nding the equipmer	t in Yes	X No
Notes:	For noted deficiencies additional sheets if ne		vide description	n on form DP-1. Attached

A-4

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:		12/19/	/200	3	Initia						ials	ls KMB												
Downgradient Collection Sumps				D	-1				l			D-	8				1			D-	10			
A. Circuit Breakers	Х	Pum	1p 1	Off	<u>Х</u>	On	2	Off	X	On		Off	Х	On		Off	Х	On		Off	Х	On		Off
B. Running Light On		Yes	X	No		Yes	X	No		Yes	Х	No		Yes	Х	No		Yes	Х	No		Yes	Х	No
C. Selector Switch	Н	0	Α			Н	0	Α	Н	0	Α			Н	0	Α	Н	0	Α			Ħ	0	Α
Position Han-Off Automatic (HOA)																								
D. Liquid Level in Sump pump	Н	L	0]					Н	L	0						Н	L	0					
E. Leak in Manifold Piping		Yes	X	No						Yes	X	No						Yes	Х	No				
· · · · · · ·	Pum P-1	ps		ETM 1322					Pun P-1	ps		ETM 1638	6 E				Pum P-1	ps		ETM 4241				
	P-1 P-2			1722					P-2			1471					P-2			4096				
2. Downgradient and Curtain Drain																								
A. Is there settlement curtain drain	A. Is there settlement along alignment of downgradient Yes X No curtain drain																							
3. D-1 Forcemain Flow Totalizer 590,179 x 100 =																								

D-8 Pumps do not work in Auto Mode - P1 O/S

\$. D-1 Forcemain Pressure

3.	LIFT STATION NO. 1		
B.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low Norma Yes Yes	X High No No
	Pumps ETM High T P-1 3025.2 P-2 2818.3	emp Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leachate pip	Low X High Yes	Other No
4.	LIFT STATION NO. 2		
B.	Settlement along buried section of force Are sump pumps operating Are the alarms or indicator lights on	emain High High Yes	X No X No No
	Pumps ETM High T P-1 881.9 P-2 1305.8	emp Seal Fail	Fault
D.	Check liquid level around stop planks Is the level,	Low X High	Other
F.	Any leaks in the manifold discharge pip Check surface water in the Bay and Ri Are there any signs of leachate Check if a pump is out of service	_	X No 1 X No Pump 2
5.	DECONTAMINATION TRAILER		
	Is the trailer clean/sanitary Is sump pump operating	Yes X No Yes X No	

6.	DECONTAMINATION PAD/TRU	ICK FILL AREA	AND SUMP	
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35266.2 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		rel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage t manifold discharge piping	anks and	X Yes	No
G.	Check if a pump is out of service	е	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYSTI	EM		
	Air Compressors on Activated carbon canisters opera (On Line) ETM	ating	Yes Yes	X No
9.	Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE MA	AIN DISCHARG	E TO POTW	
	Leakage from pipwork in valve b Settlement along alignment of fo			X Yes No

10. MOTOR CONTROL CENTER (MCC)

A. Are all I	breakers, for the followin Lift Station No. 1 Lift Station No. 2 Decontamination Sump Storage Containment S Site Lighting)	Yes X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No				
11. SECU	RITY TRAILER AND FE	ENCING						
A. Sign-In-Review Visitors log and Check-In with Gaurds X Yes								
B. Check Is traile	cleanliness of trailer r clean		XYes	No				
	Collection System Alarme Tank Levels:	n Panel N/A	1/4] 1/2 3/4Full				
Alarm I	ndicators: Lift Stations Sumps Storage Tanks		Yes No					
D. Is the security fencing surrounding the equipment in good condition Yes X No								
Notes:	For noted deficiencies a		vide description	n on form DP-1. Attached				

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL

(REFERENCE VOLUME III SECTION 4)

Date:	12/22/	2003	<u> </u>												Initi	als		K	ИΒ				
Downgradient Collection Sumps			D-	-1				I			D-	8				l			D-	10			
Comodion oumpo	Pum	р 1 _		F	ump 2	2																	
A. Circuit Breakers	X On		Off	Х	On		Off	X	On		Off	Х	On		Off	Х	On		Off	Х	On		Off
B. Dunning Light On		V	No		I Voo I		No		IV.		No.		17/221		Nia		V		l Nia I		V	v	A 1-
B. Running Light On	Yes	<u> </u>	No		Yes	Х	No		Yes	X	No		Yes	Х_	No		Yes	Х	No		Yes	Х	No
C. Selector Switch	но	Α	Т		Н	0	A	Н	0	Α			Н	0	Α	Н	0	A	П		H	Ó	A
Position Han-Off Automatic (HOA)		•	·																				
D. Liquid Level in Sump pump	H L	0						Н	L	0]					Н	L	0]				
E. Leak in Manifold Piping	Yes	X	No						Yes	Х	No						Yes	Х	No				
	Pumps		ETM					Pum	ıps		ETM					Pum	ıps		ETM				
	P-1 P-2		1327 1727					P-1 P-2			16386 1471					P-1 P-2			4241 4 096				
	F -2		1/2/	0.0				r-Z			14/1	J.Z				r-2			4096	11.1			I
Downgradient and Curtain Drain																							
A. Is there settlement	along align	ment	t of d	ownę	gradie	nt			Yes	Х	No												

curtain drain

3. D-1 Forcemain Flow Totalizer

592,604 x 100 =

\$. D-1 Forcemain Pressure

D-8 Pumps do not work in Auto Mode - P1 O/S

3.	LIFT STATION NO. 1			
B.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low	Normal Yes Yes	X High X No No
	Pumps ETM P-1 3039.4 P-2 2818.3	High Temp	Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leach	Low nate piping	X High Yes	Other No
4.	LIFT STATION NO. 2			
В.	Settlement along buried section Are sump pumps operating Are the alarms or indicator light		High High Yes	X No X No No
	Pumps ETM P-1 881.9 P-2 1305.8	High Temp	Seal Fail	Fault
D.	Check liquid level around stop p	olanks Low	X High	Other
F.	Any leaks in the manifold discha Check surface water in the Bay Are there any signs of leachate Check if a pump is out of service	and Rip-Rap	Yes Yes Pump 1	X No Pump 2
5.	DECONTAMINATION TRAILER	₹		
	Is the trailer clean/sanitary Is sump pump operating	Yes Yes	X No	

6.	DECONTAMINATION PAD/TRU	CK FILL AREA	AND SUMP	
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35274.7 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		rel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage t manifold discharge piping	anks and	X Yes	No
G.	Check if a pump is out of service	е	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYSTI	EM		
	Air Compressors on Activated carbon canisters opera (On Line) ETM Blower 1 30806.5	ating	Yes Yes	X No
9.	Blower 2 CONTRACT HP-877 FORCE MA	AIN DISCHARG	E TO POTW	
	Leakage from pipwork in valve be Settlement along alignment of fo			X Yes No

10. MOTOR CONTROL CENTER (MCC)

A. Are a	Ill breakers, for the following Lift Station No. 1 Lift Station No. 2 Decontamination Sum Storage Containment Station	р	X Yes X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No
11. SEC	CURITY TRAILER AND F	ENCING		
A. Sign-	In-Review Visitors log an	d Check-In with Ga	aurds	X Yes
	k cleanliness of trailer ler clean		X Yes	No
	k Collection System Alari ge Tank Levels:	m Panel N/A	1/4] 1/2 3/4Full
Alarm	n Indicators: Lift Stations Sumps Storage Tanks		Yes No	
	e security fencing surroun condition	ding the equipmen	nt in Yes	X No
Notes:	For noted deficiencies additional sheets if ne		vide descriptior	on form DP-1. Attached

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	1	12/26/	2003	3												Initi	ials		K۱	/IB				
Downgradient Collection Sumps	I			D-	.1				ı			D-	8				I			D-	10			
Collection Sumps		Pum	1p 1		Р	ump	2																	
A. Circuit Breakers	X	On		Off	Χ	On		Off	Х	On		Off	Х	On		Off	X	On		Off	X	On		Off
B. Running Light On		Yes	X	No		Yes	Х	No		Yes	Х	No		Yes	Х	No		Yes	Х	No		Yes	Х	No
C. Selector Switch	Н	0	Α			Н	0	Α	Н	0	Α			Н	0	Α	Н	0	Α			Н	0	Ä
Position Han-Off Automatic (HOA)																								
D. Liquid Level in Sump pump	н	L	0						Н	L	0						н	L	0]				
E. Leak in Manifold Piping		Yes	X	No						Yes	X	No						Yes	X	No				
	'Pum	ps		ETM					Pum	ips		ETM					Pum	ps		ETM				
	P-1 P-2			1330 1730					P-1 P-2			1638 1471					P-1 P-2			4241				
Downgradient and Curtain Drain																								
A. Is there settlement curtain drain	along	g aligr	nmer	nt of d	own	gradie	nt			Yes	X	No												
3. D-1 Forcemain Flo	w Tot	alizer			594	,366	x	100	=															

D-8 Pumps do not work in Auto Mode - P1 O/S

\$. D-1 Forcemain Pressure

3.	LIFT STATION NO. 1		
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Normal Yes Yes	X High X No X No
	Pumps ETM High Temp P-1 3061.1	Seal Fail	Fault
	Check liquid level in sump Low Check for leak in manifold leachate piping	X High Yes	Other No
4.	LIFT STATION NO. 2		
В.	Settlement along buried section of forcemain Are sump pumps operating Are the alarms or indicator lights on	High High Yes	X No X No X No
	Pumps ETM High Temp P-1 881.9 P-2 1305.8	Seal Fail	Fault
D.	Check liquid level around stop planks Is the level,	X High	Other
F.	Any leaks in the manifold discharge piping Check surface water in the Bay and Rip-Rap Are there any signs of leachate Check if a pump is out of service	Yes Pump 1	X No X No Pump 2
5.	DECONTAMINATION TRAILER		
	Is the trailer clean/sanitary Is sump pump operating Yes Yes	X No	

6.	DECONTAMINATION PAD/TRU	ICK FILL AREA	A AND SUMP	
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35343.7 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		vel perimeter Ye	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No X No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
E.	Is there any leak in the storage manifold discharge piping	tanks and	XYes	No
G.	Check if a pump is out of service	е	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYST	EM		
B.	Air Compressors on Activated carbon canisters oper (On Line) ETM Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE M.		Yes Yes To POTW	X No
	Leakage from pipwork in valve be Settlement along alignment of for			Yes No X No

10. MOTOR CONTROL CENTER (MCC)

			, ,		
Α.	Are all I	breakers, for the follow Lift Station No. 1 Lift Station No. 2 Decontamination Sun Storage Containment Site Lighting	np	x Yes X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No No No No
11	. SECU	RITY TRAILER AND F	ENCING		
A.	Sign-In-	-Review Visitors log ar	nd Check-In with G	aurds	X Yes
В.	Check of trailer	cleanliness of trailer r clean		X Yes	No
C.		Collection System Alar Tank Levels:	m Panel N/A	1/4] 1/2 3/4Full
		ndicators: Lift Stations Sumps Storage Tanks		Yes No	
D.	Is the s good co	ecurity fencing surrour andition	nding the equipmer	nt in Yes	X No
No	otes:	For noted deficiencies additional sheets if ne		vide descriptio	n on form DP-1. Attached

A-4

FORM GWL-1 WEEKLY (TWICE WEEKLY) O & M INSPECTION CHECKLIST GROUNDWATER/LEACHATE MANAGEMENT SYSTEM PELHAM BAY LANDFILL (REFERENCE VOLUME III SECTION 4)

Date:	12/29/200	3												Initi	als		K	ИΒ				
Downgradient Collection Sumps		D	-1				l			D-	8				l			D-	10			
	Pump 1	1 - 41		ump 2	2	T 2 22				0"				0"	<u>,,</u>			10"				
A. Circuit Breakers	X On	Off	X	On		Off	X	On		Off	X	On		Off	X	On		Off	X	On		Off
B. Running Light On	Yes X	No		Yes	Х	No		Yes	Х	No		Yes	Х	No		Yes	Х	No		Yes	Х	No
							<u></u>						_					1				
C. Selector Switch Position Han-Off	H O A			H	0	A	Н	0	Α			H	0	Α	H	0	Α			H	0	Α
Automatic (HOA)																						
D. Liquid Level in Sump pump	H L O						Н	L	0]					Н	L	0					
E. Leak in Manifold Piping	Yes X	No						Yes	X	No						Yes	Х	No				
	Pumps	ETM					Pum	nps		ETM					Pum	ps		ETM				
	P-1	1332					P-1			1638					P-1			424				
	P-2	1732	9.4				P-2			1471	3.2				P-2			4096	01.1			
Downgradient and Curtain Drain																						
A. Is there settlement curtain drain	along alignme	nt of d	lown	gradie	nt			Yes	X	No												

3. D-1 Forcemain Flow Totalizer

595,552 x 100 =

\$. D-1 Forcemain Pressure

D-8 Pumps do not work in Auto Mode - P1 O/S

A-1

3.	LIFT STATION NO. 1		
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Low Normal Yes Yes	X High X No X No
	Pumps ETM High Te P-1 3069.8 P-2 2818.3	emp Seal Fail	Fault
	Check liquid level in sump Check for leak in manifold leachate pipi	Low X High	Other No
4.	LIFT STATION NO. 2		
B.	Settlement along buried section of force Are sump pumps operating Are the alarms or indicator lights on	main High High Yes	X No X No X No
	Pumps ETM High Te P-1 881.9 P-2 1305.8	emp Seal Fail	Fault
D.	Check liquid level around stop planks Is the level,	Low X High	Other
F.	Any leaks in the manifold discharge pipi Check surface water in the Bay and Rip Are there any signs of leachate Check if a pump is out of service	• —	X No X No Pump 2
5.	DECONTAMINATION TRAILER		
	Is the trailer clean/sanitary Is sump pump operating	Yes X No Yes X No	

6.	DECONTAMINATION PAD/TRU	CK FILL AREA	AND SUMP		
B.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No	
	Pumps ETM P-1 35343.7 P-2 22065.3	High Temp	Seal Fail	Fault	
Ε.	Check Decon-Area for leachate Check for leak in manifold disch Check if pump is out of service		vel perimeter Yes		
F.	Truck Fill Totalizer 853743				
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP		
B.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No X No	
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault	
D.	Check liquid level in sump	Low	High	X Other	
Ε.	Is there any leak in the storage t manifold discharge piping	anks and	X Yes	No	
G.	Check if a pump is out of service	Э	X Pump 1	Pump 2	
8.	CARBON ADSROPTION SYSTI	ΕM			
	Air Compressors on Activated carbon canisters opera (On Line)	ating	Yes Yes	X No	
9.	Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE MA	AIN DISCHARC	GE TO POTW		
	Leakage from pipwork in valve b			X Yes	No X No

10. MOTOR CONTROL CENTER (MCC)

A. Are all	breakers, for the followin Lift Station No. 1 Lift Station No. 2 Decontamination Sump Storage Containment S Site Lighting)	X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No
11. SECU	JRITY TRAILER AND FE	NCING		
A. Sign-Ir	n-Review Visitors log and	Check-In with Ga	aurds	X Yes
	cleanliness of trailer er clean		XYes	No
	Collection System Alarme Tank Levels:	n Panel N/A	1/4] 1/2 3/4Full
Alarm	Indicators: Lift Stations Sumps Storage Tanks		Yes No	
	security fencing surround ondition	ling the equipmen	t in Yes	XNo
Notes:	For noted deficiencies a additional sheets if necessity		vide description	n on form DP-1. Attached

A-4

3.	LIFT STATION NO. 1		
В.	Flow from Curtain Drain Are Sump Pumps Operating Alarm indicator Lights	Normal Yes Yes	X High X No X No
	Pumps ETM High Temp P-1 3074.2 P-2 2818.3	Seal Fail	Fault
	Check liquid level in sump Low Check for leak in manifold leachate piping	X High Yes	Other No
4.	LIFT STATION NO. 2		
B.	Settlement along buried section of forcemain Are sump pumps operating Are the alarms or indicator lights on	High High Yes	X No X No X No
	Pumps ETM High Temp P-1 889.1 P-2 1310.4	Seal Fail	Fault
D.	Check liquid level around stop planks Is the level,	X High	Other
	Any leaks in the manifold discharge piping Check surface water in the Bay and Rip-Rap	Yes	X No
	Are there any signs of leachate Check if a pump is out of service	Yes Pump 1	X No Pump 2
5.	DECONTAMINATION TRAILER		
	Is the trailer clean/sanitary Is sump pump operating Yes Yes	X No X No	

6.	DECONTAMINATION PAD/TRU	CK FILL AREA	A AND SUMP	
В.	Flow through sump weep holes Are Sump Pumps Operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 35349.5 P-2 22065.3	High Temp	Seal Fail	Fault
E.	Check Decon-Area for leachate Check for leak in manifold discha Check if pump is out of service		vel perimeter Yes	
F.	Truck Fill Totalizer 853743			
7.	LEACHATE STORAGE CONTA	INMENT AREA	AND SUMP	
В.	Flow through sump weep holes Are sump pumps operating Alarm indicator Lights	Low	X Normal Yes Yes	High X No No
	Pumps ETM P-1 1970.2 P-2 3353.1	High Temp	Seal Fail	Fault
D.	Check liquid level in sump	Low	High	X Other
Ε.	Is there any leak in the storage t manifold discharge piping	anks and	X Yes	No
G.	Check if a pump is out of service	e	X Pump 1	Pump 2
8.	CARBON ADSROPTION SYSTE	EM		
	Air Compressors on Activated carbon canisters opera (On Line)	ating	Yes Yes	X No
9.	Blower 1 30806.5 Blower 2 CONTRACT HP-877 FORCE MA	AIN DISCHARG	SE TO POTW	
	Leakage from pipwork in valve b Settlement along alignment of fo			Yes No

10. MOTOR CONTROL CENTER (MCC)

A. Are all I	breakers, for the follow Lift Station No. 1 Lift Station No. 2 Decontamination Sum Storage Containment Site Lighting	пр	x Yes X Yes X Yes X Yes X Yes X Yes X Yes X Yes	No No No No No No No
11. SECURITY TRAILER AND FENCING				
A. Sign-In-Review Visitors log and Check-In with Gaurds X Yes				
B. Check of Is trailer	cleanliness of trailer r clean		X Yes	No
	Collection System Alar Tank Levels:	m Panel N/A	1/4] 1/2 3/4Full
	ndicators: Lift Stations Sumps Storage Tanks		Yes No]]
D. Is the security fencing surrounding the equipment in good condition Yes X No				
Notes: For noted deficiencies and problems provide description on form DP-1. Attac additional sheets if necessary.				n on form DP-1. Attached

Severn Trent Environmental Services



Appendix C – Copy of Log Book December 2003

made rounds

rained All day

Fince still down

11/19

made rounds

bought chain saw from Boston Road

took ride-on lawn mower back

flare still down

10

6

70

40

W O

10

10

-

-

-

male rounds

tanks are all most full, open value

to D-1 to drain tanks faster

did inspection

made rounds

Eli 15 here to work on heat tracing
by decon. trailer & repair D-8

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moderounds

del inspection

pumpe & LS-2

trice to short flore N/6

made rounds

pick up parts at grainer for Peter

tried to start flore N/6

12/4
male rounds
startel Plane ran for about 21/2 hrs
collected samples pro from ponde,
Lechate, and condensate for
Joe Counti

Made rounds.

did inspections
snowing very hard all day

made rounds

plowed with the 380 pickup

All the roads and parting area wear

the trailer

tried to start Plane NIG

Pete, Ray, & Demateri on site

removing scattold from tank Darm

area

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made rounds

did inspection

tried to fix Alat on blue truck N/6

tried to start flare 3x N/6

made rounds

fixed Plat on blue truck, brought truck
to good year for service
found a mouse in trailer called pest
ent control on Gun Hill Rd. coming
tomorrou
tried to call Hann at tech support
in Houston about email problem, his
out for the day, will try again tomorrow

Made rounds
Rained very hard most of the
day tried to start Hare. N/s

made rounds

did in spectron

problem with power in LS-2 area

made rounds

tried to start flore N/6

Need electrican to check power

in LS-2 area

Did inspection

12/16

Did mw sampling all day with

Shawn & Joe Covati

Rained All day
mada rounds
cleaned up tool shed

made rounds

thick Corm pren overflow due to heavy

rains on 12/12/03

deraining into A-1 with an increased

flow

tried to start Plane for condensate

sample for doe, hovening no lock

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7

made room ds

did inspection

tried to start Plane, had it running

for about 15 min. then it just shotes

down

made rounds
did inspection
triel to fix sparkplus in blue truck

12/23
made rounds
trued to start flore N/6
rained hard mostof the day

12/26
male rounds
did inspection
trick to start flare N/G

made rounds
did inspechon
rained all day

male rounds triet to short floor N/G pumper LS-2

made pounds
did inspections

rained in the morning

tried to stack flace N/6

Severn Trent Environmental Services



Attachment A – General Correspondence





Operating Services

Water and Wastewater Systems Operation and Maintenance

December 29, 2003

Mr. John Wuthenow NYCDEP OEPA 11th floor

Municipal and Industrial 59-17 Junction Blvd

Flushing, NY 11373

Meter Reading and Billing

RE: Pelham Bay Landfill

Contract Registration No. 20030015700

Status of Gas Flare

Design/Build/Operate (DBO) Contracts

Dear John:

Utility Management and Administration

This letter is to summarize the verbal discussions we have had regarding the status of the gas flare system at the Pelham Bay Landfill. As you are aware despite ongoing repair work and troubleshooting of the system by STES, AARCO, the electrical subcontractor, and AXD/Link Controls, the operation of the gas flare system remains problematic.

Special Purpose Taxing Districts

To date STES has complied with all requirements of our Contract under Section 5.3, Gas Collection System Repairs. These specific repairs are as follows: purchase and install two new blowers, refurbish the two existing blowers, repair the electrical system for the gas flare, install a p-trap in the gas flare condensate drain line, and replace all defective gas extraction well flexible tubing.

Two new blowers have been purchased from AXD. The blowers were delivered on June 25, 2003 and are presently stored in the onsite gray storage trailers. The Contract did not specify the purchase of a mist eliminator. According to AXD, a mist eliminator must be installed upstream from the new blowers for the blower warranty to be effective.

The purchase and installation of the mist eliminator is out-of- scope work and will require a Change Order. In a letter dated June 23, 2003, (attached), STES has requested an installation design specification from the NYCDEP for the mist



eliminator in order to determine the material and labor cost for the installation portion of the Change Order work. At present STES has not received this information.

As required by the Contract, both existing blowers have been re-built, re-aligned and are currently on-line. STES also performed mechanical troubleshooting and repair work under Task 15, Mechanics Labor. STES has rebuilt the motor for blower No. 1, as well as cleaned the pilot light, pilot light sensors and flame sensor and cleared the pilot gas lines. This work was completed in November 2003.

Under Change Order No. X-1, AXD and Link Controls were onsite on June 18, 2003 to troubleshoot any unforeseen problems with the electrical system prior to the installation of the contract specified electrical parts. They determined that no additional parts were necessary. The letter of findings from AXD is attached.

All Contract required electrical work was completed on July 31, 2003. This included purchase and installation of starting transformers, conductors and controls, auxiliary contacts and relays. AXD was on site for the installation of this equipment, however, the day following the installation, the blowers could not be started in the automatic sequence and once running sporadically shut down. STES e-mailed URS (attached) requesting direction on how to proceed with the correction of this problem, however, a response was not provided. This problem has been continuous since that time. STES contacted AXD and was informed that any additional site visits would be performed at cost. Since there are no provisions for this type of work in the Contract, a Change Order would have to be initiated and approved.

Under Task 8 of the Contract, STES had AARCO Electric troubleshoot the gas flare system, however, specific problems could not be determined. At the request of the NYCDEP, STES attempted to find an Electrical Controls Specialist to troubleshoot the system under Task 8, Electrician's Labor. However, this is not feasible as Task 8 is costed for an Electrician "M" hourly rate not that of an Electrical Controls Specialist. At this time, STES is waiting direction from the NYCDEP on how to proceed with further repairs of the gas flare system.

A p-trap has been installed in the gas condensate line. This work was performed in August 2003.

All defective flexible hoses on the gas extraction wells were repaired in the beginning of this Contract.

Due to Contract constraints, which limit the amount and type of work required to complete the installation of the mist eliminator and blowers and electrical control repairs, STES is requesting that the NYCDEP recommend alternative methods to complete this repair work.

STES is anxious to proceed with this phase of the Contract. Please contact either Barbara Stanton or myself to discuss this matter further. We can be reached at 516.674.6032.

Very truly yours,

Richard G. Gardner, P.E.

Regional Manager

Xc: file

D. Turney (NYCDEP)



Severn Trent Services, Inc. Environmental Services Group 100 Morris Avenue Glen Cove, New York 11542

Tel 516 674 6032 Fax 516 674 0151

June 23, 2003

Mr. David Turney NYCDEP OEPA 11th floor 59-17 Junction Blvd Flushing, NY 11373

RE: Pelham Bay Landfill Gas Flare System

Dear David:

During the site inspection conducted by AXD and Link Controls on June 18, 2003, STES became aware of a letter written in 1996 from AXD to Brecco stating the importance of a mist eliminator installed on the gas flare influent piping. Subsequently, in discussions with AXD, STES was notified that a full warranty on the new blowers cannot be issued by the manufacturer unless a mist eliminator is installed. A copy of that letter is also attached.

As you are aware, our present Agreement does not specify the purchase or installation of a mist eliminator. STES believes that it is in the best interest of the NYCEP to include the purchase and installation of the mist eliminator in the gas flare system upgrade. Such work will require stainless steel piping design for the influent and effluent landfill gas, and the condensate stainless steel drainage piping and tie-in for the mist eliminator unit. At the request of the NYCDEP, STES will prepare a Change Order for this work.

At this time STES is ready to commence work under the terms of Section 5.3 of our Agreement, which states specific repairs to the gas flare system. The two blowers, transformers and appurtenances are scheduled to be delivered to the site on Wednesday June 25, 2003. In

P: barb Pethan 01 OR SP letters & sex memos meetings letters harney blower 06 2003, do



anticipation of the approval of the Change Order for the purchase and installation of the mist eliminator, STES has requested delivery of the unit at this time in order to coordinate heavy equipment delivery and off-loading procedures.

STES will not install the new blowers until the mist eliminator is installed in order that the NYCDEP receive full warranty on the equipment. Installation of the mist eliminator will be subsequent to the approval of the Change Order. Both the blowers and the mist eliminator will be stored in the onsite storage containers.

On Wednesday June 25, 2003, STES will install the re-built no. 2 blower, which is presently stored in the onsite gray storage trailer.

The Section 5.3 electrical system work will be coordinated with STES with oversite provided by AXD and Link controls. STES will receive a written report of the findings of the AXD/Link Controls June 18, 2003 site inspection, which will address any control panel deficiencies (a copy will be forwarded to the NYCDEP). As part of their proposal, AXD will provide the parts necessary to correct these deficiencies. STES will notify the NYCDEP as soon as this work is scheduled.

At this time, STES is prepared to commence work on the Change Order to purchase and install the mist eliminator. We are requesting that you advise us on this issue at your earliest convenience.

Very truly yours,

Barbara L. Stanton. P.E.

Barla TStart

Project Manager

Xc: file

J. Wuthenow (NYCDEP)

W. Gross (URS)

S. Park (URS)

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO TENNENT, NJ 07763 EMAIL: GUYCUSUMANO@NETSCAPE.NET [732] 431-1505 FAX 308-1367

June 23, 2003

Ms. Barbara Stanton SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01 PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS Severn Trent Order #002645

Dear Barbara:

Confirming our telephone conversation of this morning, proper operation of the overall gas system requires installation of the mist eliminator.

Installation of the mist eliminator is so important that if it is not done, the warranty on the blowers is limited to situations where it can be clearly proven that a problem that arises is due to defective manufacture. Because water will be going through the machine(s) without the mist eliminator, it is essentially impossible to ever tell whether a manufacturing defect has led to a problem.

To summarize, the mist eliminator should definitely be installed prior to initial operation of either of the replacement blowers.

We appreciate this opportunity to be of service to SEVERN TRENT.

Best regards,

Day F. Cusuray

Guy F. Cusumano AXD SERVICE INDUSTRIES

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO

TENNENT, NJ 07763

EMAIL: GUYCUSUMANO@NETSCAPE.NET

[732] 431-1505 FAX 308-1367

February 25, 2003

Ms. Barbara Stanton SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01 PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS Severn Trent Order #002645

Dear Barbara:

As previously advised considering the length of time the starters have been inactive they should be thoroughly overhauled prior to attempting to use the new auto transformers. A defective starter could easily fry one of these transformers. The starters and the rest of the controls were set up jointly by AXD Service Industries Corp. and custom panel builder Link Controls. As requested we are offering a proposal for a joint Inspection by AXD and Link Controls:

Description

Replacement control panel parts (other than the auto transformers) based upon our best estimate of the most probable requirements.

One day field inspection, two men, plus expenses

Total price for above

\$3,315.00

Prices are F.O.B. NJ, with delivery 5-10 working days A.R.O. & A. Order is subject to AXDSIC Standard Terms & Conditions, SIC893ST, previously sent. Net 30 days, subject to credit approval.

Please note that because of the length of time that the panel was inactive even with joint inspection by AXD Service Industries and Link Controls and Severn Trent's installation of the auto transformers and the parts that we are offering above there is still a small but real possibility the panel will exhibit one or more problems.

Thank you for this opportunity to be of service to Severn Trent.

Best regards,

✓ Guy #. Cusumano

AXD SERVICE INDUSTRIES

GFC:pf

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO TENNENT, NJ 07763 EMAIL: GUYCUSUMANO@NETSCAPE.NET [732] 431-1505 FAX 308-1367

September 4, 2003

Ms. Barbara L. Stanton, P.E. SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01
PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS
Severn Trent Order #003304/Subject: Inspection Report

Dear Barbara:

Below please find the service report for the joint AXD SERVICE INDUSTRIES - Link Control Systems field visit on June 18, 2003 at Pelham Bay Landfill, Bronx, NY.

Present: Guy D. Cusumano, AXD Service Industries Corp.; Peter Turbek, Severn Trent; Kevin, Site Operator; George, Link Controls; Sonya Park and Walter Gross, DEP and others.

REPORT:

It is our understanding that the SOP for the gas flare has been and continues to be in the automatic mode. Due to difficulties in getting the system running a non-conventional method of operation was used only as a last resort to have the system running for the purpose of the site visit. Those present were reminded that operation in hand mode bypasses all safeties. Reviewed circuits/ path in panel and test fire from flare master panel. Blower did not start; however, CR3 & CR4 functioned correctly. Traced to O/L in starter. Heaters had tripped and auto safety feature functioned as designed. Panel running only in crossline start on right side of duplex panel. Left side not used, blower absent.

Suggest replace auto transformers, starter contact faces, clean relays as needed, repair wiring changes so as to implement the reduced volt start feature again. Note that this will reduce KW DMD MAX charge due to no longer having any full voltage locked rotor conditions.

Copy of as built circuit diagrams and start up certification were available.

The new auto transformer kits as furnished contain all parts necessary for a complete overhaul of the controls. In spite of the length of time since initial installation, additional parts are not recommended at this time by Link, the original builders of the panels.

END OF REPORT.

We appreciate this opportunity to be of service to SEVERN TRENT.

Best regards,

Guy P. Cusumano

AXD SERVICE INDUSTRIES

Stanton, Barbara

From:

Stanton, Barbara

Sent:

Wednesday, August 13, 2003 9:41 AM

To:

'Walter_Gross (E-mail)'; 'Sonya_Park (E-mail)'

Cc:

Gardner, Rich; Covati, Joe; Bay, Pelham

Subject:

Pelham Bay blowers

Sonya,

STES is reporting that both gas flare blowers are off line due to automatic shutdown. A summary of the events is as follows:

- On July 31, 2003 AXD was at the site to supervise the installation of the new transformers for the gas flare system.
- STES personnel present, electrical work performed AAR/CO STES electrical subcontractor.
- Blower No. 1 was put online and electrically tested.
- The electrical tests were satisfactory, however the inlet and discharge valves were frozen and could not be
 opened during the tests.
- The following day the valves were opened and in working order, however, Blower No. 1 was now shutting down on surge and the cfm set point was not achieved.
- STES personnel and electrical subcontractor attempted to troubleshoot Blower No. 1 but were not able to locate the cause.
- Blower No. 2 put on line but would not start.
- STES personnel and electrical subcontractor attempted to troubleshoot Blower No. 2 but were not able to locate the cause.
- STES contacted AXD.
- AXD responded that they completed the oversite on July 31, 2003 with the equipment electrically approved
 and have fulfilled the terms of the proposal.
- Any additional site visits by AXD will result in a service charge.

We would like to have AXD back to the site as soon as possible to troubleshoot and rectify the problem, however, there is no means in the contract to cover this work. Please advise as to how we should proceed.

Also, will you have another swale cleaning directive?

regards,

Barbara

Tracking:

Recipient

Delivery

'Walter_Gross (E-mail)'
'Sonya_Park (E-mail)'

Gardner, Rich Covati, Joe Bay, Pelham Delivered: 8/13/03 9:41 AM Delivered: 8/13/03 9:41 AM Delivered: 8/13/03 9:41 AM



Operating Services

Water and Wastewater Systems Operation and Maintenance

December 29, 2003

Mr. John Wuthenow NYCDEP OEPA 11th floor 59-17 Junction Blvd Flushing, NY 11373

Municipal and Industrial

RE:

Pelham Bay Landfill

Meter Reading and Billing

Contract Registration No. 20030015700

Response to NYCDEP letter dated December 18, 2003

Design/Build/Operate (DBO) Contracts

Dear John:

I have reviewed the attached letter from the NYCDEP to the NYCDEP dated Utility Management and Administration December 18, 2003, for the purpose of assessing how STES can assist the NYCDEP with providing the requested submittals.

Special Purpose Taxing Districts

Items 1-3 regarding modifications to Volume I of the O&M Manual are not within the scope of work of our current Contract. Item 4, Site Specific Health and Safety Plan was addressed by STES in the beginning of our current Contract Enclosed is a copy of the final approved Health and Safety Plan.

As per your request STES is summarizing the monitoring data collected under the current and previous contract in report format. This task is being completed under the 50 hours allotted to Task 13, Professional Engineer's Labor or our current Contract. The anticipated submittal date for this report is mid January 2004.

A summary of the status of the gas flare blowers is summarized in the attached letter dated December 29, 2003.

Please contact either Barbara Stanton or myself if you have any further questions regarding this letter.

Very truly yours,

Richard G. Gardner, P.E.

Regional Manager

Xc: file w/o H&S Plan

D. Turney (NYCDEP) w/o H&S Plan



Operating Services

Water and Wastewater Systems Operation and Maintenance

December 29, 2003

Mr. John Wuthenow

Municipal and Industrial

NYCDEP OEPA 11th floor 59-17 Junction Blvd Flushing, NY 11373

Meter Reading and Billing

RE:

Pelham Bay Landfill

Contract Registration No. 20030015700

Status of Gas Flare

Design/Build/Operate (DBO) Contracts

Dear John:

Utility Management and Administration

This letter is to summarize the verbal discussions we have had regarding the status of the gas flare system at the Pelham Bay Landfill. As you are aware despite ongoing repair work and troubleshooting of the system by STES, AARCO, the electrical subcontractor, and AXD/Link Controls, the operation of the gas flare system remains problematic.

*--

Special Purpose Taxing Districts

To date STES has complied with all requirements of our Contract under Section 5.3, Gas Collection System Repairs. These specific repairs are as follows: purchase and install two new blowers, refurbish the two existing blowers, repair the electrical system for the gas flare, install a p-trap in the gas flare condensate drain line, and replace all defective gas extraction well flexible tubing.

Two new blowers have been purchased from AXD. The blowers were delivered on June 25, 2003 and are presently stored in the onsite gray storage trailers. The Contract did not specify the purchase of a mist eliminator. According to AXD, a mist eliminator must be installed upstream from the new blowers for the blower warranty to be effective.

The purchase and installation of the mist eliminator is out-of- scope work and will require a Change Order. In a letter dated June 23, 2003, (attached), STES has requested an installation design specification from the NYCDEP for the mist



eliminator in order to determine the material and labor cost for the installation portion of the Change Order work. At present STES has not received this information.

As required by the Contract, both existing blowers have been re-built, re-aligned and are currently on-line. STES also performed mechanical troubleshooting and repair work under Task 15, Mechanics Labor. STES has rebuilt the motor for blower No. 1, as well as cleaned the pilot light, pilot light sensors and flame sensor and cleared the pilot gas lines. This work was completed in November 2003.

Under Change Order No. X-1, AXD and Link Controls were onsite on June 18, 2003 to troubleshoot any unforeseen problems with the electrical system prior to the installation of the contract specified electrical parts. They determined that no additional parts were necessary. The letter of findings from AXD is attached.

All Contract required electrical work was completed on July 31, 2003. This included purchase and installation of starting transformers, conductors and controls, auxiliary contacts and relays. AXD was on site for the installation of this equipment, however, the day following the installation, the blowers could not be started in the automatic sequence and once running sporadically shut down. STES e-mailed URS (attached) requesting direction on how to proceed with the correction of this problem, however, a response was not provided. This problem has been continuous since that time. STES contacted AXD and was informed that any additional site visits would be performed at cost. Since there are no provisions for this type of work in the Contract, a Change Order would have to be initiated and approved.

Under Task 8 of the Contract, STES had AARCO Electric troubleshoot the gas flare system, however, specific problems could not be determined. At the request of the NYCDEP, STES attempted to find an Electrical Controls Specialist to troubleshoot the system under Task 8, Electrician's Labor. However, this is not feasible as Task 8 is costed for an Electrician "M" hourly rate not that of an Electrical Controls Specialist. At this time, STES is waiting direction from the NYCDEP on how to proceed with further repairs of the gas flare system.

A p-trap has been installed in the gas condensate line. This work was performed in August 2003.

All defective flexible hoses on the gas extraction wells were repaired in the beginning of this Contract.

Due to Contract constraints, which limit the amount and type of work required to complete the installation of the mist eliminator and blowers and electrical control repairs, STES is requesting that the NYCDEP recommend alternative methods to complete this repair work.

STES is anxious to proceed with this phase of the Contract. Please contact either Barbara Stanton or myself to discuss this matter further. We can be reached at 516.674.6032.

Very truly yours,

Richard G. Gardner, P.E.

Regional Manager

Xc: file

D. Turney (NYCDEP)



Severn Trent Services, Inc. Environmental Services Group 100 Morris Avenue Glen Cove, New York 11542

Tel 516 674 6032 Fax 516 674 0151

June 23, 2003

Mr. David Turney NYCDEP OEPA 11th floor 59-17 Junction Blvd Flushing, NY 11373

RE: Pelham Bay Landfill Gas Flare System

Dear David:

During the site inspection conducted by AXD and Link Controls on June 18, 2003, STES became aware of a letter written in 1996 from AXD to Brecco stating the importance of a mist eliminator installed on the gas flare influent piping. Subsequently, in discussions with AXD, STES was notified that a full warranty on the new blowers cannot be issued by the manufacturer unless a mist eliminator is installed. A copy of that letter is also attached.

As you are aware, our present Agreement does not specify the purchase or installation of a mist eliminator. STES believes that it is in the best interest of the NYCEP to include the purchase and installation of the mist eliminator in the gas flare system upgrade. Such work will require stainless steel piping design for the influent and effluent landfill gas, and the condensate stainless steel drainage piping and tie-in for the mist eliminator unit. At the request of the NYCDEP, STES will prepare a Change Order for this work.

At this time STES is ready to commence work under the terms of Section 5.3 of our Agreement, which states specific repairs to the gas flare system. The two blowers, transformers and appurtenances are scheduled to be delivered to the site on Wednesday June 25, 2003. In

P: burlt Pelhand (Od: AF letters faxor manos meetings) letters/turney-blossers062003.6 Date:6-24-03



anticipation of the approval of the Change Order for the purchase and installation of the mist eliminator, STES has requested delivery of the unit at this time in order to coordinate heavy equipment delivery and off-loading procedures.

STES will not install the new blowers until the mist eliminator is installed in order that the NYCDEP receive full warranty on the equipment. Installation of the mist eliminator will be subsequent to the approval of the Change Order. Both the blowers and the mist eliminator will be stored in the onsite storage containers.

On Wednesday June 25, 2003, STES will install the re-built no. 2 blower, which is presently stored in the onsite gray storage trailer.

The Section 5.3 electrical system work will be coordinated with STES with oversite provided by AXD and Link controls. STES will receive a written report of the findings of the AXD/Link Controls June 18, 2003 site inspection, which will address any control panel deficiencies (a copy will be forwarded to the NYCDEP). As part of their proposal, AXD will provide the parts necessary to correct these deficiencies. STES will notify the NYCDEP as soon as this work is scheduled.

At this time, STES is prepared to commence work on the Change Order to purchase and install the mist eliminator. We are requesting that you advise us on this issue at your earliest convenience.

Very truly yours,

Barbara L. Stanton. P.E.

Brila F Start

Project Manager

Xc: file

J. Wuthenow (NYCDEP)

W. Gross (URS)

S. Park (URS)

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO TENNENT, NJ 07763

EMAIL: GUYCUSUMANO@NETSCAPE.NET [732] 431-1505 FAX 308-1367

June 23, 2003

Ms. Barbara Stanton SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01 PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS Severn Trent Order #002645

Dear Barbara:

Confirming our telephone conversation of this morning, proper operation of the overall gas system requires installation of the mist eliminator.

Installation of the mist eliminator is so important that if it is not done, the warranty on the blowers is limited to situations where it can be clearly proven that a problem that arises is due to defective manufacture. Because water will be going through the machine(s) without the mist eliminator, it is essentially impossible to ever tell whether a manufacturing defect has led to a problem.

To summarize, the mist eliminator should definitely be installed prior to initial operation of either of the replacement blowers.

We appreciate this opportunity to be of service to SEVERN TRENT.

Best regards,

Day F. Curung

Guy F. Cusumano
AXD SERVICE INDUSTRIES

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO

TENNENT, NJ 07763

EMAIL: GUYCUSUMANO@NETSCAPE.NET

[732] 431-1505 FAX 308-1367

February 25, 2003

Ms. Barbara Stanton SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01 PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS Severn Trent Order #002645

Dear Barbara:

As previously advised considering the length of time the starters have been inactive they should be thoroughly overhauled prior to attempting to use the new auto transformers. A defective starter could easily fry one of these transformers. The starters and the rest of the controls were set up jointly by AXD Service Industries Corp. and custom panel builder Link Controls. As requested we are offering a proposal for a joint Inspection by AXD and Link Controls:

Description

Replacement control panel parts (other than the auto transformers) based upon our best estimate of the most probable requirements.

One day field inspection, two men, plus expenses

Total price for above

\$3,315.00

Prices are F.O.B. NJ, with delivery 5-10 working days A.R.O. & A. Order is subject to AXDSIC Standard Terms & Conditions, SIC893ST, previously sent. Net 30 days, subject to credit approval.

Please note that because of the length of time that the panel was inactive even with joint inspection by AXD Service Industries and Link Controls and Severn Trent's installation of the auto transformers and the parts that we are offering above there is still a small but real possibility the panel will exhibit one or more problems.

Thank you for this opportunity to be of service to Severn Trent.

Best regards,

✓ Guy F. Cusumano
AXD SERVICE INDUSTRIES

GFC:pf

SERVICE & PARTS FOR ENVIRONMENTAL & PRODUCTION SYSTEMS BLOWERS, PUMPS, WAVEPLANE, FANS, SCRUBBERS, OXIDIZERS, & VALVES CONTROL SYSTEMS, MOLDED & STEEL FITTINGS, DUST BAGS,

PO BOX 39 AXD SERVICE INDUSTRIES CORP. GUY F. CUSUMANO TENNENT, NJ 07763 EMAIL: GUYCUSUMANO@NETSCAPE.NET [732] 431-1505 FAX 308-1367

September 4, 2003

Ms. Barbara L. Stanton, P.E. SEVERN TRENT SERVICES INC. 100 Morris Avenue Glen Cove, NY 11542 FAX: 516-674-0151

RE: NYCDEP/PELHAM BAY LANDFILL, Project #PELHM-01
PARAGRAPH 5.3, GAS COLLECTION MANAGEMENT SYSTEM REPAIRS
Severn Trent Order #003304/Subject: Inspection Report

Dear Barbara:

Below please find the service report for the joint AXD SERVICE INDUSTRIES - Link Control Systems field visit on June 18, 2003 at Pelham Bay Landfill, Bronx, NY.

Present: Guy D. Cusumano, AXD Service Industries Corp.; Peter Turbek, Severn Trent; Kevin, Site Operator; George, Link Controls; Sonya Park and Walter Gross, DEP and others.

REPORT:

It is our understanding that the SOP for the gas flare has been and continues to be in the automatic mode. Due to difficulties in getting the system running a non-conventional method of operation was used only as a last resort to have the system running for the purpose of the site visit. Those present were reminded that operation in hand mode bypasses all safeties. Reviewed circuits/ path in panel and test fire from flare master panel. Blower did not start; however, CR3 & CR4 functioned correctly. Traced to O/L in starter. Heaters had tripped and auto safety feature functioned as designed. Panel running only in crossline start on right side of duplex panel. Left side not used, blower absent.

Suggest replace auto transformers, starter contact faces, clean relays as needed, repair wiring changes so as to implement the reduced volt start feature again. Note that this will reduce KW DMD MAX charge due to no longer having any full voltage locked rotor conditions.

Copy of as built circuit diagrams and start up certification were available.

The new auto transformer kits as furnished contain all parts necessary for a complete overhaul of the controls. In spite of the length of time since initial installation, additional parts are not recommended at this time by Link, the original builders of the panels.

END OF REPORT.

We appreciate this opportunity to be of service to SEVERN TRENT.

Best regards,

Guy P. Cusumano
AXD SERVICE INDUSTRIES

Stanton, Barbara

From:

Stanton, Barbara

Sent:

Wednesday, August 13, 2003 9:41 AM

To:

'Walter_Gross (E-mail)'; 'Sonya_Park (E-mail)'

Cc:

Gardner, Rich; Covati, Joe; Bay, Pelham

Subject:

Pelham Bay blowers

Sonya,

STES is reporting that both gas flare blowers are off line due to automatic shutdown. A summary of the events is as follows:

- On July 31, 2003 AXD was at the site to supervise the installation of the new transformers for the gas flare system.
- STES personnel present, electrical work performed AAR/CO STES electrical subcontractor.
- Blower No. 1 was put online and electrically tested.
- The electrical tests were satisfactory, however the inlet and discharge valves were frozen and could not be opened during the tests.
- The following day the valves were opened and in working order, however, Blower No. 1 was now shutting down on surge and the cfm set point was not achieved.
- STES personnel and electrical subcontractor attempted to troubleshoot Blower No. 1 but were not able to locate the cause.
- Blower No. 2 put on line but would not start.
- STES personnel and electrical subcontractor attempted to troubleshoot Blower No. 2 but were not able to locate the cause.
- STES contacted AXD.
- AXD responded that they completed the oversite on July 31, 2003 with the equipment electrically approved
 and have fulfilled the terms of the proposal.
- Any additional site visits by AXD will result in a service charge.

We would like to have AXD back to the site as soon as possible to troubleshoot and rectify the problem, however, there is no means in the contract to cover this work. Please advise as to how we should proceed.

Also, will you have another swale cleaning directive?

regards,

Barbara

Tracking:

Recipient

Delivery

'Walter_Gross (E-mail)'
'Sonya_Park (E-mail)'

Gardner, Rich

Covati, Joe Bay, Pelham Delivered: 8/13/03 9:41 AM Delivered: 8/13/03 9:41 AM

Delivered: 8/13/03 9:41 AM

New York State Department of Environmental Conservation Razardons Waste and Environmental Monitors Section Division of Environmental Remediation, Region 2 47-40 21ST Street, Long Island City, NY 11101-5407

Phone: (718) 482-4995 FAX: (718) 482-6358

Website: www.dec.stale.ny.us



Mr. John M. Wuthenow
Director
Environmental Compliance and Field Assessments
Office of Environmental Planning and Field Assessments
New York City
Department of Environmental Protection
59-17 Junction Boulevard, 11th Floor High-Rise
Flushing N.Y. 11373-5108

December 18,2003

Re: NYSDEC approval of the Petham Bay Landfill OM&M plan

Dear Mr. Wuthenow:

This letter represents one of the final steps in a process that will end in an approvable Operations, Maintenance and Monitoring (O. M & M) Plan for the Polham Bay landfill. In order that this process may proceed please provide the New York State Department of Environmental Conservation (NYSDEC) an entire set of Volumes II and III of the Pelham Bay landfill Operations, Maintenance & Monitoring (O, M & M) plan.

In addition, the following items need to be addressed in Volume I of the O, M & M plan for the Pelham Bay Landfill:

- 1. The NYSDEC requires a copy of the O&M Contract for the flare.
- 2. In Volume I, page 2-9, 3rd paragraph, please review the pump spees for lift stations I and 2.
- 3. In addition please add two Sections to Volume I of the Plan. A section on Reports which shows the format of the Monthly, Quarterly, Yearly and 5-year Reports and a Citizen Participation Section which details the O, M & M Citizen Participation Plan, a Contact List and A Freedom of Information Law (FOIL) Packet.

4. While Volume I contains elements of a Health and Safety Plan (IIASP), please insert a formal site specific Health and Safety Plan in Volume L

 Upon receipt of the abovementioned documents and a determination that the above requested changes are made the NYSDEC will consider the entire O, M & M Plan for the Pelham Bay landfill for approval.

Also, this O, M & M plan must be signed and stamped by a Professional Engineer licensed in the State of New York.

Based on the meeting held at the Fountain Avenue Landfill trailer yesterday attended by staff of the New York State Department of Environmental Conservation (NYSDEC) and the New York City Department of Environmental Protection (NYCDEP) the following will take place:

- 1. The NYCDEP will notify the NYSDEC by letter of any changes made to the previously submitted O, M & M Plan.
- The NYCDEP will talk to their lawyers regarding the institutional controls, as required by the Pelham Bay Landfill Record of Decision (ROD) for this site, and their implementation.
- 3.By the end of January, after the NYCDEP submits to the NYSDEC a summary of the post closure monitoring data, the two agencies will meet to discuss the data. The NYCDEP must include a statistical analysis of the data which analysis must be approved by the NYSDEC prior to it being done.
- 4. At that meeting the two agencies will discuss whether there is a need for continued sampling and/or the installation of extraction wells as promised in the Pelham Bay Landfill Record of Decision (ROD). It is our belief that the monitoring program may be medified as needed.

Henceforward, the NYSDEC is also requesting interim, i.e., quarterly reports and one annual O, M &M report and continues to stress the importance of keeping the plans updated. Please inform us of your plans for the purchase of two new blowers for the flare.

If you have any questions please call me at (718)277-4600 Ext.16.

Very Truly yours

Nigel N Crawford P.E.

Nach N. Cof

Project Manager NYSDEC Region 2 c¢:

G. Rider

M. Dunham

A. Nagi D. Walsh

S. Miller

S. Bollers

P. 01

FAX TRANSMISSION

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office of Environmental Planning and Assessment

59-17 Junction Boulevard, 11th Floor Corona, New York 11368 718-595-4426

Fax: 718-595-4422

Email: JWuthenow@dep.nyc.gov

To:

Rich Gardner

Date:

12/22/03

Fax #:

Pages:

4, including this cover sheet.

From:

John Wuthenow

Subject:

COMMENTS: As we discussed

New York State Department of Environmental Conservation Hazardons Waste and Environmental Monitors Section Division of Environmental Remediation, Region 2 47-40 21 Street, Long Island City, NY 11101-5407

Fax:17185954422

Phone: (718) 482-4995 FAX: (718) 482-6358

Website: www.doc.state.ny.us



Mr. John M. Wuthenow Director Environmental Compliance and Field Assessments Office of Environmental Planning and Field Assessments New York City Department of Environmental Protection 59-17 Junction Boulevard, 11th Floor High-Rise Flushing N.Y. 11373-5108

December 18,2003

Re: NYSDEC approval of the Pelham Bay Landfill OM&M plan

Dear Mr. Wuthenow:

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- 4. At that meeting the two agencies will discuss whether there is a need for continued sampling and/or the installation of extraction wells as promised in the Pelham Bay Landfill Record of Decision (ROD). It is our belief that the monitoring program may be modified as needed.

Henceforward, the NYSDEC is also requesting interim, i.e., quarterly reports and one annual O, M &M report and continues to stress the importance of keeping the plans updated. Please inform us of your plans for the purchase of two new blowers for the flare.

If you have any questions please call me at (718)277-4600 Ext.16.

Very Truly yours

Mad N. Cof Nigel N Crawford P.E.

Project Manager NYSDEC Region 2

G. Rider c¢:

M. Dunham

A. Nagi

D. Walsh

S. Miller

S. Bollers



Operating Services

Water and Wastewater Systems Operation and Maintenance

December 17, 2003

Mr. John Wuthenow, Director

Site Assessment, Office of Environmental Planning and Assessment, 11th floor

New York City Department of Environmental Protection

Municipal and Industrial 59-17 Junction Blvd

Flushing, NY 11373

Meter Reading and Billing

RE: Pelham Bay Landfill

Payment Request No. 4

Dear Mr. Wuthenow:

Design/Build/Operate (DBO) Contracts

I am responding to an e-mail, which Severn Trent received on December 16, 2003 regarding an attached e-mail dated October 31, 2003 from John DeQuinzio to David Turney. In his e-mail Mr. DeQuinzio requested that in addition to the standard 214 B and 214E NYCDEP payment forms for Payment No. 4, Severn Trent should provide an itemized invoice of billed tasks, presented on letterhead and signed. At the time that the e-mail was communicated to David Turney, the PPB rules for interest eligibility were suspended.

Utility Management and Administration

Special Purpose Taxing Districts

I am concerned with the delay in communicating this request to us. Invoice No. 4 was sent to the NYCDEP on August 27, 2003. Since that time we have also submitted Invoice No.s 5, 6 and 7. I am assuming that these are also being held for processing due to the lack of the itemized line item invoice.

Attached are the requested itemized invoices for these payment requests. I will include such with all future invoice submittals. I would like to discuss with you the means for expediting the payment approval process for Invoice No.s 5, 6 and 7. There is already a several month delay in payment for Invoice No. 4.

I am requesting the opportunity to respond to any such further requests from the NYCDEP in a timely manner in order to avoid future problems. Please call either Barbara Stanton or myself at 516-674-6032.

Very truly yours,

Richard G. Gardner. P.E.

Regional Manager

xc: file

D. Turney (NYCDEP)

B. McCullagh-Howell (NYCDEP)

A. Moss (NYCDEP)

J. DeQuinzio (NYCDEP)





Line Item Invoice, Payment No. 4, June 2003 Pelham Bay Landfill Contract Registration No. 20030015700

Municipal and Industrial

ITEM NO.	DESCRIPTION	UNIT PRICE	QUANTITY THIS	APPROVED VALUE
1			PERIOD	THIS PERIOD
1	WEEKLY JANITORIAL SERVICE	\$51.81	4	\$207.24
3	LANDFILL COVER SYSTEM INSPECTION	\$180.89	1	\$180.89
8	PLUMBER'S LABOR	\$102.85	34	\$3,496.90
9	GARDNER'S LABOR	\$25.94	112	\$2,905.28
12	STW LABOR	\$83.76	227.5	\$19,055.40
28	LEACHATE LOADING AND DISPOSAL	0.0331	540,853	\$17,902.23
36	ALLOWANCE FOR SPARE PARTS	\$30,000.00	n/a	\$2,420.74

Meter Reading and Billing

total

\$46,168.68

Design/Build/Operate (DBO) Contracts

Submitted by:

Utility Management and Administration

Richard G. Gardner, P.

Regional Manager

Special Purpose Taxing Districts







Line Item Invoice, Payment No. 5, July 2003 Pelham Bay Landfill Contract Registration No. 20030015700

Municipal and Industrial

ITEM NO.	DESCRIPTION	UNIT PRICE	QUANTITY THIS	APPROVED VALUE
1			PERIOD	THIS PERIOD
1	WEEKLY JANITORIAL SERVICE	\$51.81	4	\$207.24
3	LANDFILL COVER SYSTEM INSPECTION	\$180.89	1	\$180.89
7	ELECTRICIAN'S LABOR	\$102.85	16	\$1,645.60
9	GARDNER'S LABOR	\$25.94	176	\$4,565.44
12	STW LABOR	\$83.76	179	\$14,993.04
31	PROVIDE AND INSTALL HEATED ENCLOSURE FOR RPZ	\$8,268.83	1	\$8,268.83
36	ALLOWANCE FOR SPARE PARTS	\$30,000.00	n/a	\$7,502.00

Meter Reading and Billing

total

\$37,363.04

Design/Build/Operate (DBO) Contracts

Submitted by:

Utility Management and Administration

Richard G. Gardner, P. E.

Regional Manager

Special Purpose Taxing Districts







Line Item Invoice, Payment No. 6 August 1, 2003 through September 30, 2003 Pelham Bay Landfill Contract Registration No. 20030015700

Municipal and Industrial

Meter Reading and Billing

ITEM NO.	DESCRIPTION	UNIT PRICE	QUANTITY THIS	APPROVED VALUE
			PERIOD	THIS PERIOD
1	WEEKLY JANITORIAL SERVICE	\$51.81	4	\$207.24
3	LANDFILL COVER SYSTEM INSPECTION	\$180.89	1	\$180.89
4	MOW LANDFILL	\$197.93	2.88	\$570.04
7	ELECTRICIAN'S LABOR	\$102.85	72	\$7,405.20
8	PLUMBER'S LABOR	\$102.85	3	\$308.55
9	GARDNER'S LABOR	\$25.94	168	\$4,357.92
12	STW LABOR	\$83.76	190	\$15,914.40
20	SEMI-ANNUAL ANALYSIS OF GROUNDWATER WELLS	\$9,569.40	1	\$9,569.40
27	QUARTERLY GAS CONDENSATE TCLP	\$1,429.96	1	\$1,429.96
32	EMPLACE LCS PER O&M	\$44.84	30	\$1,345.20
34	REMOVE SEDIMENT FROM STORMWATER DITCHES	\$14.01	575	\$8,055.75
36	ALLOWANCE FOR SPARE PARTS	\$30,000.00	n/a	\$1,552.33

Design/Build/Operate (DBO) Contracts

total

\$50,896.88

Utility Management and Administration

Submitted by:

Special Purpose Taxing Districts

Richard G. Gardner, P. E.

Regional Manager





Line Item Invoice, Payment No. 7, October, 2003 Pelham Bay Landfill Contract Registration No. 20030015700

Municipal and Industrial

ITEM NO.	DESCRIPTION	UNIT PRICE	TOTAL ESTIMATED	QUANTITY THIS	APPROVED VALUE
			cost	PERIOD	THIS PERIOD
1	WEEKLY JANITORIAL SERVICE	\$51.81	\$5,336.43	3	\$155.43
3	LANDFILL COVER SYSTEM INSPECTION	\$180.89	\$5,426.70	1	\$180.89
7	ELECTRICIAN'S LABOR	\$102.85	\$102,850.00	88	\$9,050.80
8	PLUMBER'S LABOR	\$102.85	\$102,850.00	8	\$822.80
9	GARDNER'S LABOR	\$25.94	\$64,850.00	556.5	\$14,435.61
12	STW LABOR	\$83.76	\$278,753.28	361	\$30,237.36
25	SEMI-ANNUAL ANALYSIS OF LANDFILL GAS SURFACE GAS	\$516.82	\$2,067.28	1	\$516.82
36	ALLOWANCE FOR SPARE PARTS	\$30,000.00	\$30,000.00	n/a	\$5,821.31

total

\$61,221.02

Meter Reading and Billing

Design/Build/Operate (DBO) Contracts

Submitted by:

Richard G. Gardner, P. E.

Regional Manager

date

Utility Management and Administration

Special Purpose Taxing Districts





Facsimile cover sheet

DATE:

December 18, 2003

TO:

David Turney

COPY:

Sabrina Bhola

FAX:

718.595.4479

COMPANY:

NYCDEP OEPA

FROM:

Barbara Stanton

NUMBER OF PAGES: 7

David,

As per your e-mail, here are faxed copies of the requested itemized invoices for the Pelham Bay Landfill contract no 20030015700. A hard copy will follow for Monday delivery.

These pertain to invoice No.s 4,5,6 and 7, which have been previously sent to your office Please contact the appropriate parties to distribute these documents in order that our invoice payments will be processed. Please call or e-mail me if you need any further information.

Regards,

Barbara Stanton

a	par	t of
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Severn Trent Environmental

Glen Cove, New York 11542

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