Pennsylvania Avenue Landfill
Brooklyn, New York
NYSDEC Site No. 224002

Quarterly Post Closure Operation, Maintenance and Monitoring Report
April through June 2013

October 2013

New York City Department of Environmental Protection
Bureau of Wastewater Treatment
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Section 1 – Introduction

This Quarterly Report (Report) has been prepared by the New York City Department of Environmental Protection (DEP) to fulfill the reporting requirements contained in the Pennsylvania Avenue Landfill (PAL) Operation and Maintenance (O&M) Manual and the PAL Monitoring Plan (as modified) to document the operation, maintenance and monitoring activities performed between April 1, 2013 and June 30, 2013.

Section 2 - Site Background

The PAL inactive hazardous waste disposal site (Site) is located on 110 acres at the southern end of Pennsylvania Avenue in Brooklyn, New York. It is bounded by the Belt Parkway, Jamaica Bay, Hendrix Creek and Fresh Creek. A site location map is provided in Figure 1.

In 1956, the Site was opened to receive residential and commercial wastes, including construction and demolition (C&D) residuals and waste oil. In 1962, land-filling activities shifted to the Fountain Avenue Landfill (FAL). The PAL was reopened for disposal of C&D wastes in 1968. It is reported that, between 1974 and 1980, illegal dumping of hazardous wastes occurred at the Site. Disposal of all wastes stopped by 1980, and the Site was added to the New York State Registry of Inactive Hazardous Waste Disposal Sites requiring surveillance. In 1983, the Site was reclassified to a Class 3, which is a site considered not to pose a significant threat, and for which action can be deferred. After an oil inventory and product recovery feasibility study conducted in 1984, the Site was reclassified to a Class 2, a site which poses a significant threat to public health or the environment.

On December 16, 1985, and again on April 17, 1990, the New York State Department of Environmental Conservation (NYSDEC) executed Orders on Consent with the New York City Department of Sanitation (DOS) to close and remediate the Site. On April 7, 1992, the DEP entered into a Consent Order with the NYSDEC to perform a remedial program at the Site.

In response to this, DEP conducted a Remedial Investigation/Feasibility Study (RI/FS) to determine the nature and extent of contamination. The Final RI/FS, dated May 1994, revealed that certain areas and media at the Site required remediation; a summary of these results follows:

- Surface soil and sediment samples exhibited varying levels of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides and PCBs contamination.
- It was determined that a floating product plume beneath the Site contaminated the groundwater in the leachate mound and the surface water in Fresh Creek. Tests indicated that the waste oils with the capacity to migrate to the shoreline had already done so, and the remaining oils are stationary. In addition to the VOC and SVOC levels associated with residual petroleum contamination, the waste oil contained PCB levels that classify it as a hazardous waste.

- Groundwater in the leachate mound (U wells – fill aquifer) was somewhat contaminated with VOCs, SVOCs and PCBs, and it was more so in the areas where it was in contact with the floating oil plume. The shallow and deep Upper Glacial Aquifer (S & D wells) did not require remediation because they did not exhibit significant levels of contamination.

By the Order on Consent, Interim Remedial Measures (IRMs) were implemented. An interim cover was placed to prevent casual contact with exposed waste and minimize emissions. Rip-rap was installed for shoreline protection. Construction of a passive waste oil interceptor trench was completed in January 1994. The purpose of the trench is to capture waste oil before it reaches Fresh Creek; however, to date actual oil migration to the trench has been minimal.

The goals for the remediation program were set to eliminate or minimize the threats to the public health and the environment, by addressing the contamination of subsurface soils and waste disposal areas; by protecting surface waters through eradication of run-off and erosion from contaminated substrates and the migration of leachate into surrounding waters; by minimizing the impact of contaminated groundwater; by reducing soil and sediment contamination levels and removing the possibility of human or animal contact; and, by controlling and containing landfill gas emissions.

The Final Feasibility Study Report, dated September 1994, detailed the selection process and the remedial alternative chosen. The option selected included a 6 NYCRR Part 360 cap, leachate collection along Fresh Creek, limited sediment excavation, active gas control, and long term monitoring of site media.

The Record of Decision (ROD), dated February 1995, presented the remedial action. In accordance with the ROD, the Site was remediated under construction Contracts Nos. LF-PAL-G2/E2 and LF-PAL-G3. The main elements of this action included:

- Remediation of approximately 30,000 cubic yards of sediment along the Fresh Creek shoreline.
- Installation of a groundwater/leachate management system consisting of a 750-feet-long interceptor trench, two pumping stations, a force-main and an enclosed leachate pre-treatment system with subsequent disposal to the 26th Ward Wastewater Treatment Plant (WWTP).
- Regrading of the Site to provide proper drainage and minimize erosion.
- Installation of a stormwater collection, conveyance and outfall system.
- Installation of an actively vented impermeable final cover consisting, from top to bottom, of a vegetated top soil layer (6” minimum), a soil barrier protection layer (12”), a Type 2 cover double-sided geocomposite drainage layer or a Type 1 cover cushion geotextile, an LLPDE geomembrane liner (40 mil thick), and a sub-base grading fill layer.
- Planting of warm season grasses and approximately 13,000 shrubs and trees
- Installation of an active landfill gas (LFG) collection system and flaring station.

The ROD called for a pre-approved Post-Closure Monitoring, Sampling and Analysis Plan (the Monitoring Plan, the Plan) to commence within one month of DEP’s receipt of NYSDEC’s

written approval of the Final Engineering Report (FER) for the Site. The FER acceptance letter was dated March 26, 2009, and the first monitoring round was initiated within a month of its receipt and performed in accordance with the Monitoring Plan requirements. Subsequently, the ground-water portion of the Monitoring Plan was revised to allow the low-flow purging and sampling method to be used to collect groundwater samples for the analysis of both the inorganic and organic parameters. These revised Monitoring Plan requirements were utilized commencing with the second post-closure monitoring event. Based on the results of one year of quarterly post-closure monitoring, the frequency of ground water monitoring was reduced from quarterly to annually. The 2011 annual monitoring round was performed during the first quarter of 2011, and the 2012 annual monitoring round was performed during the second quarter of 2012. Soil gas quality readings are taken from the five gas monitoring wells located beyond the perimeter of the cap, parallel to the Belt Parkway quarterly.

Prior to approval of the FER, a preliminary groundwater sampling and analysis round was conducted in July 2007. Since their installation in May 2008, the perimeter soil gas wells are monitored as needed, and at least quarterly as mandated by the Monitoring Plan.

In July 2012, the NYSDEC changed the classification of the PAL site from a Class 2 to a Class 4 site on the Registry of Inactive Hazardous Waste Disposal Sites since it was properly remediated and requires site management.

Section 3 – Quarterly Summary

This Report covers the period from April 1, 2013 through June 30, 2013.

3.1 Groundwater/Leachate Management System

The groundwater/leachate management system represents one of the components of the selected remedy in the Site's ROD**.** The ROD stipulated the construction of an active leachate collection trench in the area of the waste oil outbreak along Fresh Creek and pumping the leachate to an on-site facility for pre-treatment prior to discharge to the 26th Ward WWTP.

The groundwater/leachate collection, pre-treatment and disposal system was designed to prevent migration of groundwater/leachate containing oil and dissolved contaminants to Fresh Creek Basin and to produce a treated effluent acceptable for discharge. The main components of the groundwater/leachate management system consist of a stone-filled interceptor trench with two pump stations; a 3-inch diameter HDPE leachate force main carrier pipe in a 6-inch diameter HDPE casing pipe; a pre-treatment facility and a 4-inch diameter HDPE pretreated leachate force main pipe ultimately discharging to a junction manhole at the 26th Ward WWTP. The groundwater/leachate pre-treatment facility was designed to treat up to 30 gpm. The facility's components include oil-water separation with citric acid conditioning, bag filtration and carbon adsorption.

The effluent was originally regulated under DEP's Industrial Wastewater Discharge (IWD) Permit No. 07-P3145-2, effective from August 27, 2007 to August 26, 2012. Based on the historical sampling data indicating that the groundwater/leachate quality in the interceptor trench met the plant's Industrial Pre-Treatment Permit discharge limits, the DEP received approval in 2011 to install diversion piping within the PAL GW/L Pre-Treatment Plant to divert the influent directly to the plant effluent piping. The plant flow was diverted on November 1, 2011 and the new Industrial Wastewater Discharge Permit # 11-P3145-1 was issued effective November 11, 2011-November 10, 2016. Since that time, the GW/L Pre-Treatment System is operated in Pre-Treatment Plant Diversion Mode.

Prior to commencing plant diversion mode, the PLC was reprogrammed to accommodate this second mode of operation. Monthly M-1 sampling continues to be performed under the new permit and is reported quarterly in the Self Monitoring Reports submitted to the Industrial Inspection and Permitting Section (IIPS). Figure 2 shows the current Pre-treatment System Schematic, which includes the diversion-related modifications.

The Pre-Treatment Plant equipment within the building has been, and shall continue to be properly maintained so that if the GW/L water quality degrades, the Pre-Treatment Plant can be put back into operation in accordance with the PAL O&M Manual.

During this reporting period, the system discharged 2,196,110 gallons of groundwater and leachate to the WWTP, without any interruptions. The table below summarizes the flow data for the quarter.

	Apr-13	May-13	Jun-13	Quarter
Total Flow (Gallons)	**685,740**	**730,157**	**780,213**	**2,196,110**
Average Flow (GPM)	**15.9**	**16.4**	**18.1**	**16.8**
Average Daily Flow (GPD)	**22,858**	**23,553**	**26,007**	**24,133**
Maximum Daily Flow (GPD)	**25,310**	**27,793**	**29,930**	**29,930**
Number of days in service	**30**	**31**	**30**	**91**
Percent of time in service	**100%**	**100%**	**100%**	**100%**

Although the system is in diversion mode, the interceptor trench continues to be inspected daily for the presence of product and to verify water levels. There was no indication of product in the trench or offsite leachate migration this quarter.

Inspection and monitoring of the groundwater/leachate pre-treatment system was conducted following the O&M Manual procedures. Daily Operations, bi-weekly (GWL-1), monthly (GWL-2), quarterly (GWL-3), and annual (GWL-5) inspections were performed. Another form, DP-1, "Description of Deficiencies and Problems," is used to highlight specific problems requiring timely attention. While many of the deficiencies caused by the impact of the Hurricane Sandy surge were addressed during a previous reporting period, sand and road material intrusion into the Pump Station No.1 valve vault will be removed after repairs to the embankment and Road D are completed because vehicular access is needed perform the repair. Although the product storage tank is not utilized, it will also be placed back on its base once vehicular access is

restored following the Road D/embankment repair. Other equipment components exposed to the Hurricane Sandy surge that are currently operational will continue to be monitored and assessed over time and may be replaced in the future, if necessary.

Since there has never been any product detected at the leachate pump stations, as a precautionary measure the replacement of the scavenger pumps was examined but determined not to be necessary at this time. The pump stations will continue to be inspected on a daily basis and the water quality will continue to be sampled on a monthly basis in accordance with the Discharge Permit requirements. Should product be observed, mitigation measures will be taken at that time to ensure they are appropriate to the actual conditions encountered. The replacement of the OWS influent filter casing and the petroscreen coalescer baskets has been placed on hold since the treatment system can be placed back on line without these items, thereby, allowing for their replacement when and if the pre-treatment system is placed back on-line. At the commencement of the diversion mode operation, the pre-treatment plant equipment and piping that was being circumvented, was power-washed and prepared in accordance with manufacturer's recommendations to remain in a standby condition. The equipment continues to be inspected as required to ensure that they remain in good operating condition and ready to return to service if needed. Copies of the inspection reports are attached in Appendix A for this reporting period.

During this reporting period, the M-1 pre-treatment system effluent was regulated by DEP IWD Permit No. 11-P3145-1. In accordance with the permit, effluent samples were collected on April3rd, May 6th, and June 6th. Appendix B contains the results of the laboratory analyses.

The Self-Monitoring Report was submitted to the DEP Industrial Pre-Treatment & Permit Section. There were no exceedances of any of the permit parameters during this quarter. A copy of this report is included in Appendix B.

To document that operation of interceptor trench collection system is still warranted, the M1 sample results were compared to the NYSDEC 6NYCRR Part 703 standards and guidance values for Class SA (Saline) surface waters. Based on that comparison, the concentrations of chlorobenzene and dichlorobenzene in the interceptor trench water continue to exceed the 5-ug/L guidance value for protection of saltwater fish propagation, and the lead concentration of the interceptor trench water continued to exceed the 8-ug/L standard for protection of saltwater fish propagation. Therefore, operation of the interceptor trench collection system is still warranted.

3.2 Landfill Gas Management System

The landfill gas management system represents one of the elements of the selected remedy in the Site's ROD. The ROD required the selected remedy "to ensure full collection and control of landfill gas". This system must also meet the requirements of 6 NYCRR Part 360 to limit off-site gas migration to the lower explosive limit (LEL) at the property line (i.e., 5% gas in air) and 25% of the LEL in structures (i.e., 1.25% gas in air). The landfill gas management system operates in accordance with an Air Facility Registration Certificate # 2-6105-00762/00001 issued by the NYSDEC.

The landfill gas management system features 46 gas extraction wells (EWs), a below grade polyethylene collection header piping network with isolation valves, two 375-scfm centrifugal blowers (blower 301 and blower 302), condensate collection system, an enclosed flare system, process instrumentation and controls, a programmable logic control (PLC) management system, a fire alarm system and an emergency condition alarm autodialer phone system. A plan of the overall landfill gas management system is shown on Figure 3 illustrating the location of the extraction wells, header pipe and flare facility.

All 46 gas EWs were inspected and monitored for gas content (percent CH_4, CO_2 and O_2), temperature and vacuum pressure each month. Deficiencies such as missing signage, track cleaning or sampling port repair are corrected at the time of the inspection, work orders are issued for other work. The two broken valves encountered during the June inspection are scheduled for repair/replacement in July. The LFG-3 inspection reports are included in Appendix C.

The four main headers that convey the landfill gas are connected to a condensate drain line at their low point located adjacent to the flare station. The condensate drain line and the drain lines from the two blower demisters (knock out pots) empty into the 2,500 gallon condensate tank located at the flare station. The Hurricane Sandy surge added approximately 780 gallons of brackish water to the tank. At the end of the quarter, the condensate tank inventory was 1,481 gallons.

Main piping on the vacuum side of the blowers contains an 8-inch butterfly valve with an electric actuator. This automatically adjusts the valve position according to the vacuum transmitter readings in order to control the landfill vacuum. This is followed by an 8-inch electro-pneumatic butterfly valve which operates with a compressed nitrogen cylinder. This valve automatically closes in the event of a system failure or shutdown.

The gas flare system is designed to operate with one blower in service and one as redundant standby. Although designed to collect up to 375 scfm of landfill gas, the system averaged 114.1scfm this quarter. Process gas temperature and pressure readings from the vacuum and discharge side are recorded daily in the LFG-1 inspection log. The monthly summary report of the LFG-1 daily inspections is included in Appendix C.

Landfill gas is discharged from the blowers through an 8-inch header and flame arrestor into the enclosed flare. The flare pilot is fired using natural gas from the utility company. The natural gas is also used as auxiliary fuel to supplement the recovery of landfill gas. During this reporting there was no need for the use of supplementary natural gas; 146 SCF were used for the pilot during start-up. The flare support system includes a purge air blower, two manual and two automatic dampers, temperature control with three thermocouples. The flare operation is on automatic control using the middle thermocouple at a target temperature of 1,500 ^{o}F.

During this reporting period, the landfill gas flaring system processed 14,723,173 SCF of landfill gas. The system was off line for 34 hours; 5.5 hours on April 25th for the annual FDNY Inspection, and 28.5 hours in June due to a short circuit in the oxygen monitoring system. The

flare was in service for 98.4 percent of the time during this quarter. Flow data is summarized in the table that follows.

Month	Landfill Gas Flow (Standard Cubic Feet)
Apr-13	4,989,908
May-13	5,022,248
Jun-13	4,711,017
Total	**14,723,173**

Bi-weekly (LFG-2) and quarterly (LFG-4) inspections were conducted, and copies are included in Appendix C. A detailed assessment of the flare and blower station equipment by the manufacturer's representative and an electrician was conducted during this quarter. Deficiencies recorded at the end of the previous reporting period were the flow and vacuum modulating valve, Blower No. 1 check valve and the purge blower motor. These parts are scheduled for replacement in July. Other equipment components exposed to the Hurricane Sandy surge that are currently operational will continue to be monitored and assessed over time and may be replaced in the future, if necessary.

3.3 Final Cover System

The landfill final cover system prevents stormwater infiltration into the landfill and landfill gas migration into the atmosphere. The ROD stipulated the construction of a 6 NYCRR Part 360 landfill cap. According to the O&M Manual, the cover is comprised of a vegetative topsoil layer with a minimum thickness of 6 inches; a 12-inch thick soil barrier protection layer; a Type 2 cover system double-sided geocomposite drainage layer (areas with less than 5% slope); a Type 1 cover system cushion geotextile layer (areas with slopes greater than 5%); a 40-mil thick LLDPE (linear low density polyethylene) geomembrane liner; and 6-inch thick Type II cover soil.

The O&M Manual requires the final cover system be inspected on a monthly basis and after storm events equal to or exceeding the 2 year 24-hour precipitation event (3.5 inches in 24 hours).The surface of the landfill was divided into 17 inspection zones. All 17 inspection zones are shown in Figure 4 which is utilized to identify the system components. This figure is also utilized to identify the components of the stormwater and ancillary systems. A record of the final cover system inspection is summarized on a Monthly Checklist Form FCS-1, with deficiencies noted on the Deficiency and Problems Form (DP-1). The monthly inspection reports can be found in Appendix D. The final cover system is inspected for surface cracking, vegetative growth, vector penetration, settlement, erosion, slope stability, seepage, and vandalism. The inspection is performed by walking up and down the side slopes and across each zone several times. The erosion and sediment/debris deposits on the water side perimeter of Zone 9 caused by Hurricane Sandy will be addressed with other storm related restoration work.

3.4 Stormwater Management System

The stormwater management system is an integral part of the capping and closure system required under the 6 NYCRR Part 360 regulations to protect the landfill final cover system. The system was designed to collect, transport and discharge stormwater to the surface waters surrounding the PAL in order to prevent stormwater ponding and erosion damage to the final cover system.

The stormwater management system consists of several components (as shown in Figure 4) which require monitoring, inspection, and periodic maintenance. The system has been divided into three subsystems (SWM-1, SWM-2 and SWM-3) for ease of inspection and reporting. These subsystems include:

- SWM-1: Geocomposite drain pipes and stormwater drainage swales,
- SWM-2: Outlets, culverts, rip-rap inlet and outlet protection and revetment area, and
- SWM-3: HDPE downchute pipes, manholes, pipe trenches and energy dissipation structures.

The O&M Manual requires that the stormwater management systems SWM-1, SWM-2 and SWM-3 be inspected on a monthly basis and after a storm event equal to or exceeding the 2 year 24-hour precipitation event (3.5 inches in 24 hours). A record of the inspection is summarized on Monthly Checklist Forms SWM-1, SWM-2, SWM-3 and DP-1 (for SWM-1, SWM-2 and SWM-3) for each system in accordance with the requirements of the O&M Manual. A Deficiency and Problems Form DP-1 is completed to summarize the items marked not satisfactory (NS) in the stormwater system checklist forms.

Deficiencies identified during this quarter do not necessarily affect the efficient performance of this system. The concrete pad around Manhole D1A is cracked and has shifted; this is monitored and there has been no change to this condition in the past six years. During this quarter, the swales and culverts were landscaped and cleaned out when debris was noted during inspections. Inspection of the stormwater management system during and after the rainfall events (less than 2-year storm events) on April 12th, May 8th and June 13th, and monthly inspections completed on April 24th, May 29th and June 28th showed the system is working adequately. The monthly inspection reports and DP-1 Forms can be found in Appendix D.

3.5 Ancillary Systems

The ancillary systems (ANS) are those support systems at the PAL that are used for site access and security. The ancillary systems include five (5) access roads (A, B, C, D and E) and two (2) nature trails (East & West) as shown in Figure 4, along with fences, gates, and locks. The roadways are integral in providing access to perform required inspection, monitoring and maintenance activities. In addition, since the selected remedy resulted in leaving waste on-site,

the security fences and gates provide important institutional controls to prevent site access to unauthorized individuals.

The O&M Manual requires that the ANS be inspected on a monthly basis. A record of the inspection is summarized on Monthly Checklist Forms ANS-1 and DP-1 (for ANS-1) in accordance with the requirements of the O&M Manual. The instructions for the checklists further require inspections after storm events equal to or exceeding the 2 year 24-hour precipitation event (3.5 inches in 24 hours). These are incorporated into the monthly inspection reports found in Appendix D.

Damage and wear are inherent in unpaved roads. Potholes on the access roads are recurring and are filled in as part of routine maintenance. Repair details were developed for the embankment and the paved road along Hendrix Creek around Outlet A, damaged by previous severe weather. While the embankment repairs have been completed, the remaining road repair work will be performed under a separate Work Order Authorization. Details are being developed to repair the damage caused by Hurricane Sandy to Road D and the embankments along Hendrix Creek and Fresh Creek Basin.

Holes in the perimeter fence are repaired as soon as possible after they are found during each monthly inspection. Locks are inspected and lubricated quarterly and as needed. Safety inspections are performed monthly. Damaged and missing "Confined Space" and "Hazard" signs were also replaced. The project sign along the Belt Parkway was lost during Hurricane Sandy, and details for its replacement are in progress.

3.6 Post-Closure Environmental Monitoring

The Monitoring Plan for the PAL went into effect when the FER was approved by NYSDEC at the end of March 2009. The Plan addresses the performance evaluation of the effectiveness of the cap and/or landfill gas collection system in controlling leachate and landfill gas migration. It requires monitoring of the groundwater elevation and quality at ten wells (HP wells) located around the perimeter, outside the limits of the closure cap, and soil gas quality in five wells (GMW wells) located outside the limits of the cap parallel to the Belt Parkway as shown in Figure 5. Additionally, monitoring for landfill gas is performed on a monthly basis inside the groundwater/leachate treatment facility building, as per 6 NYCRR Part 360 requirements.

3.6.1 Groundwater Monitoring Program

In the NYSDEC letter of March 2, 2011 to DEP, the NYSDEC approved the DEP's request to reduce the frequency of groundwater monitoring from quarterly to annually, in rotating quarters (i.e., once every five quarters), and to reduce the frequency of monitoring for pesticides and PCBs to once every five years. In addition, beginning in 2011, Annual Reporting periods will be on a calendar year basis. The first quarter 2011 groundwater monitoring round served as the annual monitoring event for 2011. The groundwater monitoring round performed during the second quarter of 2012 served as the annual monitoring event for 2012. Therefore, the next groundwater monitoring round will be performed during the third quarter of 2013.

Due to this new schedule, groundwater monitoring was not conducted this quarter.

3.6.2 Gas Monitoring Program

The quarterly perimeter soil gas readings were taken at the five perimeter gas monitoring wells on June 14th. Figure 5 shows the locations of the perimeter gas wells, while the gas monitoring results are summarized in Table 1. Perimeter Gas Monitoring Well GMW-01 was temporarily not accessible during this reporting period due to NYCDOT Belt Parkway construction contract earthwork operations. The NYCDOT Contractor will be extending the monitoring well and restoring access following the completion of the earthwork operations in that area. Methane concentrations at this location have historically been 0. Methane was not detected at the remaining GMW wells, with the exception of 0.4% in Well GMW-04. Methane readings within the groundwater/leachate pre-treatment facility building were 0.0% throughout the facility as shown in Table 2. These readings were taken monthly April 3rd, May 6th and June 6th. Monitoring data is included in Appendix E.

Based on the results of the post-closure landfill-gas monitoring performed during this reporting period, methane levels measured were less than the 6NYCRR Part 360 requirements indicating that the landfill gas being generated by the PAL is being contained by the collection and treatment system and preventing off-site methane migration. It is expected that landfill gas concentrations will continue to decrease over time as the landfill ages.

Section 4 – Conclusions and Recommendations

Based on the results of the post-closure activities performed during this quarter, the PAL engineering controls and associated institutional controls are in place, performing properly and remain effective. The PAL remedy continues to be protective of public health and the environment and is compliant with the PAL ROD. The activities associated with the O&M Manual and the Post-Closure Monitoring Plan (as approved by the NYSDEC) continue to be implemented.

Routine system maintenance and repair of each of the remediation systems should continue in compliance with the requirements of the PAL O&M Manual. In general, it is recommended that areas of the Site affected by Hurricanes Irene and Sandy should be restored to their existing condition prior to the storm event.

Specific conclusions and recommendations for each of the remediation systems are identified in the following paragraphs.

4.1 Groundwater/Leachate Management System

The GW/L management system continued to be operational and prevent off-site leachate migration during this reporting period. Since November 1, 2011, the Groundwater/Leachate Management System has been operating in plant diversion mode. In this mode, the treatment

system processes are being circumvented since the quality of the interceptor trench water being collected meets the permit discharge limits without pre-treatment. During this quarter, the untreated discharge continued to meet the required permit limits. The interceptor trench discharge monthly monitoring for permit-required parameters will be continued in accordance with the permit requirements. Should it be necessary in the future for the treatment processes to be brought back online, it would be recommended that monthly influent/effluent water quality sampling be reinstated.

As previously recommended in prior Post-Closure Reports, since no separate-phase petroleum has ever been detected at the leachate pump stations, the replacement of the scavenger pumps was examined and determined not to be necessary. The pump stations should continue to be inspected on a daily basis and the water quality should continue to be sampled on a monthly basis in accordance with the Discharge Permit requirements. Should separate-phase petroleum be observed, mitigation measures should be taken at that time to ensure they are appropriate to the actual conditions encountered. Based on the results of the monitoring and inspection activities performed during this reporting period, this recommendation remains in effect.

In general, it is recommended that individual pieces of equipment that are not in use be maintained in good working condition and ready to be placed back on-line, if necessary. The interceptor trench pump stations and related equipment will continue to be operated and maintained. If deficiencies are noted they will be repaired and/or replaced in a timely manner to minimize system down time. Continue to monitor and assess the equipment components that are currently operational but were exposed to the Hurricane Sandy surge to determine the potential need for replacement in the future, if necessary. Following the repair of Road D, remove sand/road material from the PS #1 valve vault and reset the product storage tank. Specifically, the recommended corrective actions listed in Form DP-1, Leachate Pre-Treatment System, Descriptions of Deficiencies and Problems, in Appendix A should be implemented.

4.2 Landfill Gas Management System

The landfill gas management system is operational and is preventing offsite gas migration. Overall the methane concentration and quantity of gas collected by the system have declined since the system was first activated. This may be attributable to the age of the landfill and the condition should continue to be monitored. Continue to implement recommendations made by the DEP oversight consultant to improve system performance. Replace the parts identified by the manufacturer's representative and electrician evaluation. Continue to monitor and assess the equipment components that are currently operational but were exposed to the Hurricane Sandy surge to determine the potential need for replacement in the future, if necessary. The recommended corrective actions listed in Form DP-1, Landfill Gas System, Descriptions of Deficiencies and Problems, in Appendix C should be implemented.

4.3 Final Cover System

Overall, the landfill final cover system continues to be protective of the landfill cap beneath it. Conditions found are typical of those encountered during the landfill post-closure period, with

only a few deficiencies noted. In general, it is recommended that routine maintenance continue to be performed to prevent problem areas from expanding and worsening. This would include filling ruts caused by erosion, reseeding areas where necessary and maintaining landfill surface slope to promote stormwater runoff. In addition, perimeter areas of the final cover system affected by Hurricane Sandy should be restored to their existing condition prior to the storm event. Specifically, the recommended corrective actions listed in Form DP-1, FCS-1, Descriptions of Deficiencies and Problems, in Appendix D should be implemented.

4.4 Stormwater Management System

The stormwater management system continues to convey stormwater runoff to its outfall locations. Conditions found are typical of those encountered during the landfill post-closure period, with a few deficiencies noted. In general, it is recommended that silt and vegetation in drainage swales continue to be periodically removed and sediment be removed from other portions of the drainage system. In addition, areas of the stormwater management system affected by Hurricane Sandy should be restored to their existing condition prior to the storm event. Specifically, the recommended corrective actions listed in Form DP-1 (SWM-1, SWM-2 SWM-3), Descriptions of Deficiencies and Problems, in Appendix D should be implemented as deemed appropriate.

4.5 Ancillary Systems

The roads and nature trails of the ancillary systems continue to provide access throughout the Site while the fencing and gates continue to allow for controlled site access. Conditions found are typical of those encountered during the landfill post-closure period, with a few deficiencies noted. In general, it is recommended that routine maintenance continue to be performed to prevent problem areas from expanding and worsening. This would include filling ruts and depressions in roads and trails and repairing site fencing and gates when necessary. In addition, areas of the ancillary systems affected by Hurricane Sandy should be restored to their existing condition prior to the storm event. Specifically, the recommended corrective actions listed in Form DP-1, ANS-1, Descriptions of Deficiencies and Problems, in Appendix D should be implemented.

4.6 Post-Closure Environmental Monitoring

Recommendations this quarter are to continue to perform the environmental monitoring in accordance with the modified Monitoring Plan (approved by the NYSDEC in March 2011) reflecting the reduction in the frequency of groundwater monitoring to annually, in rotating quarters (i.e., once every five quarters) and the reduction in the frequency of monitoring for pesticides and PCBs to once every five years. In addition, beginning in 2011 Annual Reporting periods are on a calendar year basis. The next groundwater monitoring round will be performed during the third quarter of 2013.

FIGURES

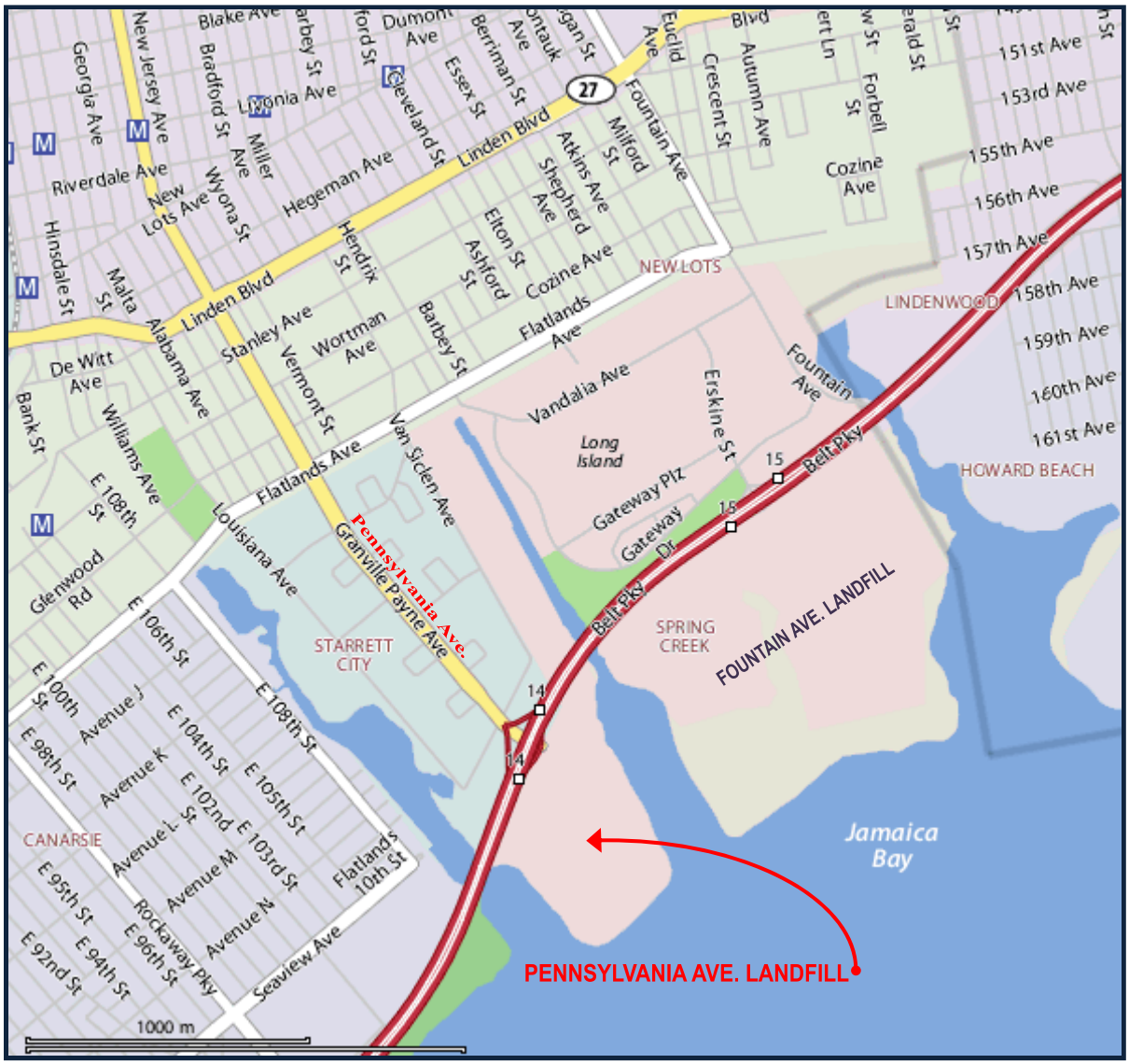




FIGURE 1
SITE LOCATION MAP

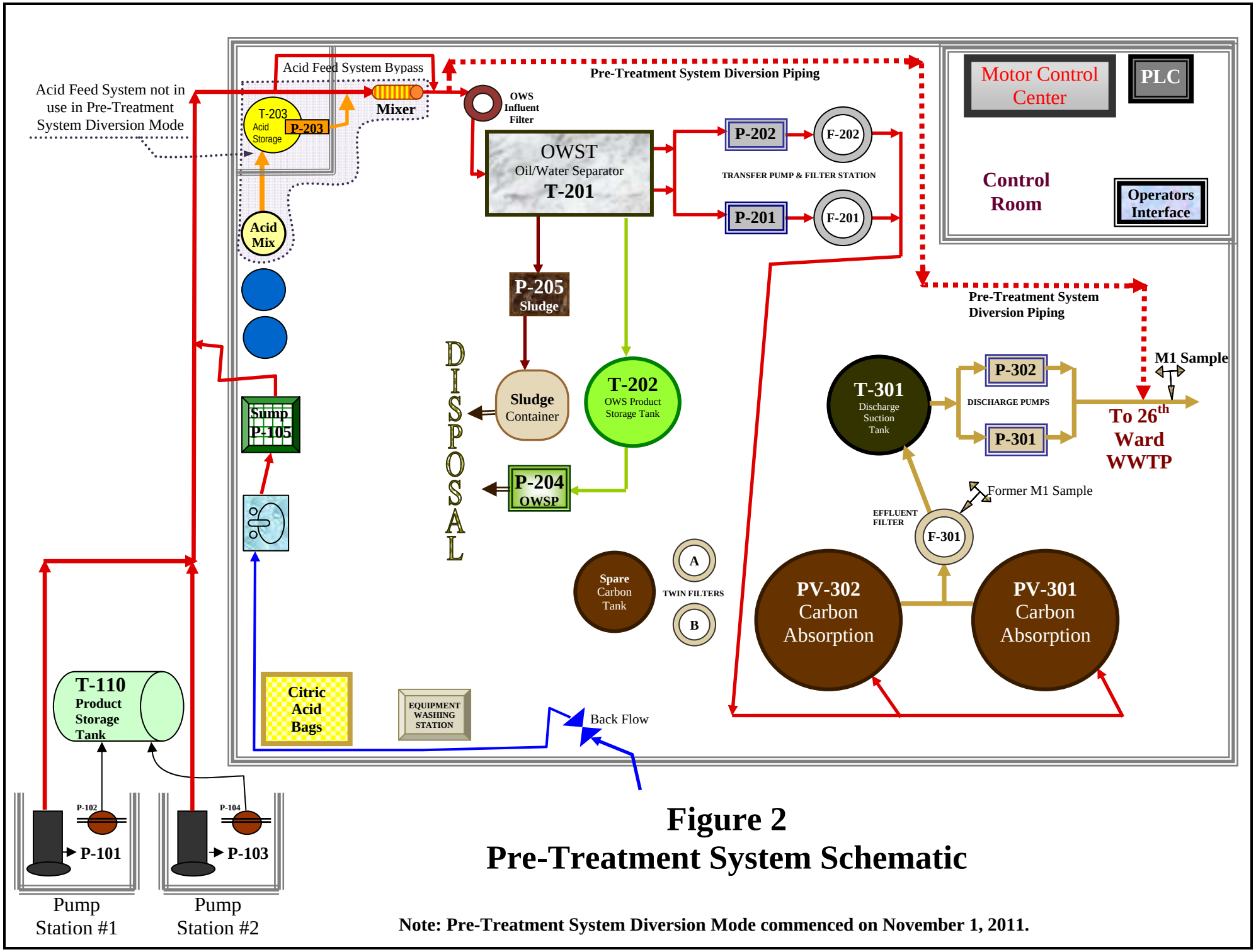


Figure 2
Pre-Treatment System Schematic

Note: Pre-Treatment System Diversion Mode commenced on November 1, 2011.

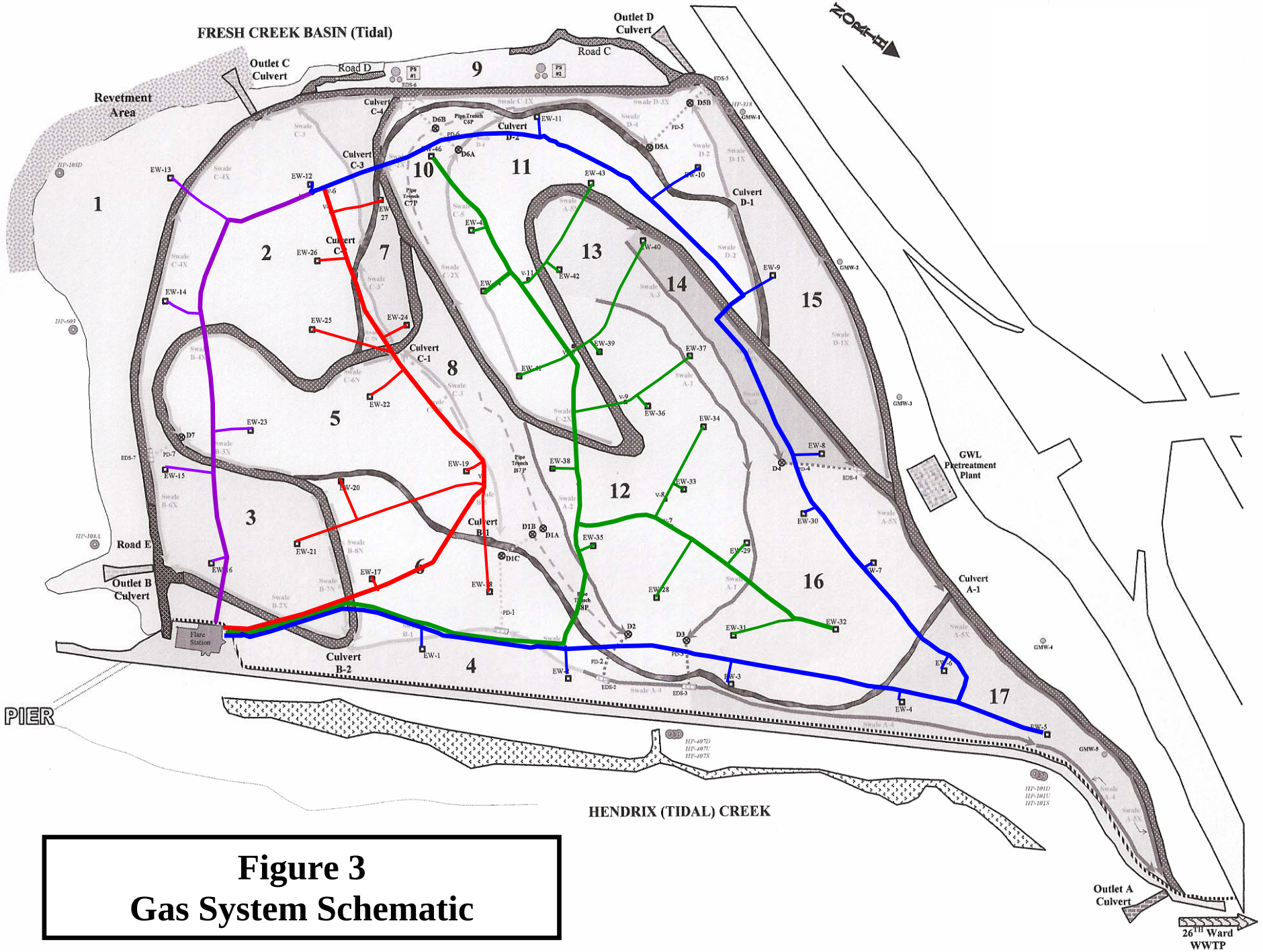


Figure 3
Gas System Schematic

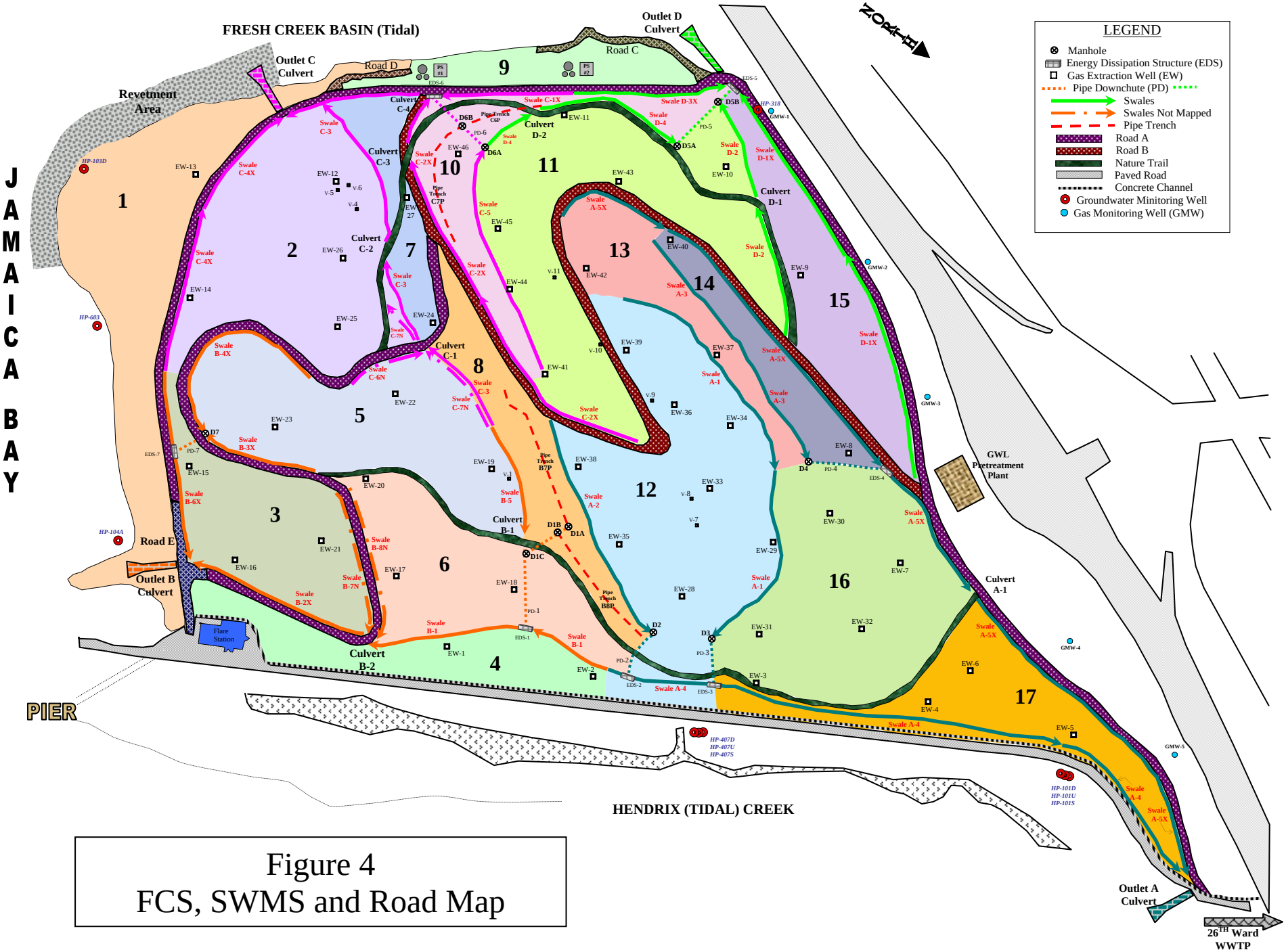


Figure 4
FCS, SWMS and Road Map

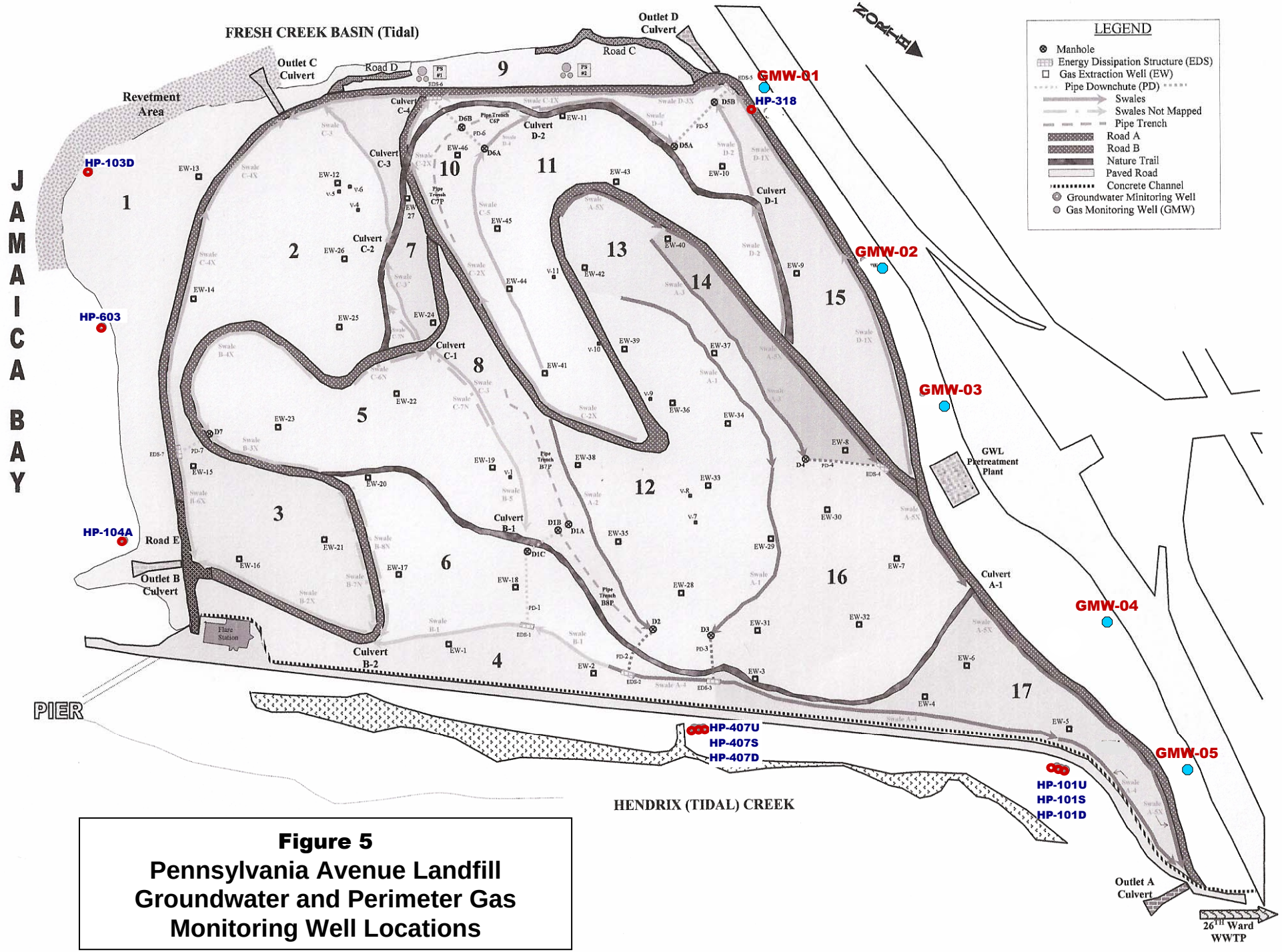


Figure 5
Pennsylvania Avenue Landfill Groundwater and Perimeter Gas Monitoring Well Locations

TABLES

Table 1
Summary of Perimeter Gas Monitoring Well Results

Pennsylvania Avenue Landfill, Brooklyn, NY

Quarterly Monitoring Round	GMW-01	GMW-02	GMW-03	GMW-04	GMW-05
	Methane (% by volume)				
1Q13	0.0	0.0	0.0	0.0	0.0
2Q13	(See Note 1)	0.0	0.0	0.4	0.0
	Carbon Dioxide (% by volume)				
1Q13	0.2	0.7	1.0	9.7	1.0
2Q13	(See Note 1)	2.7	4.5	9.1	2.9
	Oxygen (% by volume)				
1Q13	20.4	20.6	20.6	8.0	20.4
2Q13	(See Note 1)	19.1	16.3	4.7	18.8

Notes

1. Perimeter Gas Monitoring Well GMW-01 was temporarily not accessible due to NYCDOT Belt Parkway construction contract earthwork operations. NYCDOT Contractor will be extending monitoring well to restore access following the completion of the earthwork operations in that area. Methane concentrations at this location have historically been 0.

Table 2:
Summary of Gas Monitoring Results within the Groundwater/Leachate Pre-Treatment Building

Pennsylvania Avenue Landfill
Brooklyn, NY

	Date	Leachate Treatment Building Methane (% by Volume)
1Q13	1/7/13	0.0
	2/6/13	0.0
	3/13/13	0.0
2Q13	4/3/13	0.0
	5/6/13	0.0
	6/6/13	0.0

Appendix A – GWL Inspection Forms

Groundwater Leachate Pretreatment
Flow Reports

(April, May and June, 2013)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH: **April 2013**

	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
1	7:17 AM	9,465,590	**25,310**	24	
2	7:51 AM	9,468,121	**23,650**	24	
3	7:40 AM	9,470,486	**18,580**	24	
4	7:40 AM	9,472,344	**25,300**	24	
5	7:10 AM	9,474,874	**23,087**	24	1
6			**23,087**	24	1
7			**23,087**	24	1
8	7:54 AM	9,481,800	**22,190**	24	
9	7:22 AM	9,484,019	**22,370**	24	
10	7:10 AM	9,486,256	**23,230**	24	
11	7:50 AM	9,488,579	**22,110**	24	
12	7:16 AM	9,490,790	**24,223**	24	1
13			**24,223**	24	1
14			**24,223**	24	1
15	7:51 AM	9,498,057	**23,400**	24	
16	7:29 AM	9,500,397	**24,400**	24	
17	8:29 AM	9,502,837	**21,950**	24	
18	7:30 AM	9,505,032	**23,040**	24	
19	7:42 AM	9,507,336	**22,250**	24	1
20			**22,250**	24	1
21			**22,250**	24	1
22	7:13 AM	9,514,011	**22,230**	24	
23	7:31 AM	9,516,234	**22,980**	24	
24	7:50 AM	9,518,532	**22,340**	24	
25	7:07 AM	9,520,766	**23,010**	24	
26	7:46 AM	9,523,067	**22,230**	24	1
27			**22,230**	24	1
28			**22,230**	24	1
29	7:26 AM	9,529,736	**22,080**	24	
30	7:07 AM	9,531,944	**22,200**	24	
1-May	7:15 AM	9,534,164			

No. of Days in Operation
30.0

Total Flow (gallons)
685,740

Average Daily Flow (gallons)
22,858

Maximum Daily Flow (gallons)
25,310

(1) Estimated flow for weekends and holidays (readings not taken)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH:	MAY 2013				
	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
1	7:15 AM	9,534,164	**22,310**	24	
2	7:44 AM	9,536,395	**21,620**	24	
3	7:45 AM	9,538,557	**21,753**	24	(1)
4			**21,753**	24	(1)
5			**21,753**	24	(1)
6	8:06 AM	9,545,083	**20,020**	24	
7	7:20 AM	9,547,085	**22,440**	24	
8	7:38 AM	9,549,329	**26,160**	24	
9	7:40 AM	9,551,945	**26,920**	24	
10	7:22 AM	9,554,637	**27,793**	24	(1)
11			**27,793**	24	(1)
12			**27,793**	24	(1)
13	7:25 AM	9,562,975	**26,950**	24	
14	7:55 AM	9,565,670	**24,910**	24	
15	7:40 AM	9,568,161	**24,640**	24	
16	7:27 AM	9,570,625	**24,190**	24	
17	7:37 AM	9,573,044	**22,727**	24	(1)
18			**22,727**	24	(1)
19			**22,727**	24	(1)
20	7:33 AM	9,579,862	**22,860**	24	
21	7:45 AM	9,582,148	**22,400**	24	
22	7:27 AM	9,584,388	**23,330**	24	
23	7:55 AM	9,586,721	**22,550**	24	
24	7:19 AM	9,588,976	**22,835**	24	(1)
25			**22,835**	24	(1)
26			**22,835**	24	(1)
27	**Holiday**		**22,835**	24	(1)
28	7:40 AM	9,598,110	**22,070**	24	
29	7:00 AM	9,600,317	**23,360**	24	
30	7:45 AM	9,602,653	**23,060**	24	
31	8:20 AM	9,604,959	**22,207**	24	
3-Jun	8:06 AM	9,611,621			

No. of Days in Operation
31

Total Flow (gallons)
730,157

Average Daily Flow (gallons)
23,553

Maximum Daily Flow (gallons)
27,793

(1) Estimated flow for weekends and holidays (readings not taken)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH: JUNE 2013

	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
31-May	8:20 AM	9,604,959			
1			**22,207**	24	1
2			**22,207**	24	1
3	8:06 AM	9,611,621	**21,740**	24	
4	7:50 AM	9,613,795	**20,880**	24	
5	7:16 AM	9,615,883	**22,260**	24	
6	8:20 AM	9,618,109	**20,700**	24	
7	7:25 AM	9,620,179	**28,617**	24	1
8			**28,617**	24	1
9			**28,617**	24	1
10	7:20 AM	9,628,764	**29,320**	24	
11	7:15 AM	9,631,696	**29,930**	24	
12	7:15 AM	9,634,689	**29,480**	24	
13	7:34 AM	9,637,637	**29,070**	24	
14	7:45 AM	9,640,544	**27,713**	24	1
15			**27,713**	24	1
16			**27,713**	24	1
17	7:38 AM	9,648,858	**22,390**	24	
18	7:20 AM	9,651,097	**25,080**	24	
19	7:07 AM	9,653,605	**27,020**	24	
20	7:33 AM	9,656,307	**26,220**	24	
21	7:15 AM	9,658,929	**26,273**	24	1
22			**26,273**	24	1
23			**26,273**	24	1
24	6:44 AM	9,666,811	**26,910**	24	
25	7:14 AM	9,669,502	**27,110**	24	
26	8:00 AM	9,672,213	**25,650**	24	
27	7:35 AM	9,674,778	**26,000**	24	
28	7:50 AM	9,677,378	**26,077**	24	1
29			**26,077**	24	1
30			**26,077**	24	1
1-Jul	9:00 AM	9,685,201			

No. of Days in Operation
30

Total Flow (gallons)
780,213

Average Daily Flow (gallons)
26,007

Maximum Daily Flow (gallons)
29,930

(1) Estimated flow for weekends and holidays (readings not taken)

Groundwater Leachate Pretreatment

Daily Operations Reports

(April, May and June, 2013)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT DAILY FLOWS
EFFLUENT TO 26TH WARD WWTP

MONTH: APRIL **2013**

	Time		PI 100	TI 100	FT-100 Flow Transmitter 10 Gallon Count Readings			Operator Interface Flow Totalizer Reading			Wet Well Elevation	
	Hour	Min.	(psi)	(°F)	Reading	Previous Reading	Diff.	Reading	Previous Reading	Diff.	PS#1	PS#2
1	7	17	1	65	9465590	9458190	7400	18883040	18778988	104052	-4.3	-3.6
2	7	51	1	63	9468121	9465590	2531	18918766	18883040	35726	-4.3	-3.5
3	7	40	1	61	9470486	9468121	2365	18952964	18918766	34198	-4.3	-3.5
4	7	40	0.5	61	9472344	9470486	1858	18979905	18952964	26941	-4.1	-3.4
5	7	10	1	63	9474874	9472344	2530	19015689	18979905	35784	-4.3	-3.6
6												
7												
8	7	54	1	66	9481800	9474874	6926	19113331	19015689	97642	-4.3	-3.6
9	7	22	1	56	9484019	9481800	2219	19144383	19113331	31052	-4.3	-3.6
10	7	10	1	58	9486256	9484019	2237	19175963	19144383	31580	-4.3	-3.6
11	7	50	1	57	9488579	9486256	2323	19208595	19175963	32632	-4.3	-3.6
12	7	16	1	50	9490790	9488579	2211	19239533	19208595	30936	-4.3	-3.6
13												
14												
15	7	51	1	52	9498057	9490790	7267	19343298	19239533	103765	-4.3	-3.6
16	7	29	1	52	9500397	9498057	2340	19376935	19343298	33637	-4.3	-3.6
17	8	29	1	55	9502837	9500397	2440	19411981	19376935	35046	-4.3	-3.6
18	7	30	1	54	9505032	9502837	2195	19442562	19411981	30581	-4.3	-3.6
19	7	42	1	54	9507336	9505032	2304	19474609	19442562	32047	-4.3	-3.5
20												
21												
22	7	13	1	51	9514011	9507336	6675	19569445	19474609	94836	-4.3	-3.6
23	7	31	1	50	9516234	9514011	2223	19601435	19569445	31990	-4.3	-3.5
24	7	50	1	52	9518532	9516234	2298	19633542	19601435	32107	-4.3	-3.6
25	7	07	1	53	9520766	9518532	2234	19664771	19633542	31229	-4.3	-3.6
26	7	46	1	54	9523067	9520766	2301	19697344	19664771	32573	-4.3	-3.6
27												
28												
29	7	26	1	55	9529736	9523067	6669	19792012	19697344	94668	-4.3	-3.6
30	7	07	1	55	9531944	9529736	2208	19823307	19792012	31295	-4.3	-3.6
31												
MAY 1	7	15	1	54	9534164	9531944	2220	19855138	19823307	31831	-4.3	-3.6

PENNSYLVANIA AVENUE LANDFILL
Groundwater/Leachate Discharge Operation

MONTH:	APRIL		Year: 2013							
			Pump Station No. 1		Pump Station No. 2		Discharge System			
Weekday	Date	Time	Normal	Not Normal	Normal	Not Normal	Normal	Not Normal	Comments	Tech
Monday	4-1-13	7:17AM	✓		✓		✓			EEM
Tuesday	4-2-13	7:51AM	✓		✓		✓			EEM
Wednesday	4-3-13	7:40AM	✓		✓		✓			EEM
Thursday	4-4-13	7:40AM	✓		✓		✓			EEM
Friday	4-5-13	7:10AM	✓		✓		✓			EEM
Monday	4-8-13	7:54AM	✓		✓		✓			EEM
Tuesday	4-9-13	7:22AM	✓		✓		✓			EEM
Wednesday	4-10-13	7:10AM	✓		✓		✓			EEM
Thursday	4-11-13	7:50a	✓		✓		✓			EEM.
Friday	4-12-13	7:16a	✓		✓		✓			EEM.
Monday	4-15-13	7:51a	✓		✓		✓			EEM.
Tuesday	4-16-13	7:29AM	✓		✓		✓			EEM
Wednesday	4-17-13	8:29AM	✓		✓		✓			EEM
Thursday	4-18-13	7:30AM	✓		✓		✓			EEM
Friday	4-19-13	7:42AM	✓		✓		✓			EEM
Monday	4-22-13	7:13AM	✓		✓		✓			EEM
Tuesday	4-23-13	7:31AM	✓		✓		✓			EEM
Wednesday	4-24-13	7:50AM	✓		✓		✓			EEM
Thursday	4-25-13	7:07AM	✓		✓		✓			EEM
Friday	4-26-13	7:46AM	✓		✓		✓			EEM
Monday	4-29-13	7:26AM	✓		✓		✓			EEM
Tuesday	4-30-13	7:07AM	✓		✓		✓			EEM
Wednesday										
Thursday										
Friday										

Additional Comments:

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: APRIL 2013

	Date	Weather	Ambient Temp. (°F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Monday	1-Apr	Fog, mostly cloudy	63	50	37	T	MOG,EM,EEM,JM	Washing, maintenance and State inspection of site truck and trailer. Pump vault water out and worked on extraction well temp probe repairs. Replaced missing hardware on the FAL entrance gate.
Tuesday	2-Apr	Partly cloudy	45	39	33	0.00	MOG,EEM,JM	IT Tech on site for computer and network repairs. FAL Flare out of service due to a malfunction of the thermocouple module. Ordered replacement from LFG Specialties. Performed PM of the UV flame sensors. Royal Flush on site for FAL trailer septic disposal.
Wednesday	3-Apr	Partly cloudy	48	41	33	0.00	MO,EEM,JM	M1 sample collection. Stormwater management system inspections. Repaired silt fencing at Penn. Took FAL perimeter soil gas readings while flare was off line. There is no off site gas migration. Stormwater Sysem inspections.
Thursday	4-Apr	Mostly cloudy	45	39	32	0.00	MOG,EM,EEM,JM	Completed M1 sample collection and delivered them to the laboratory. PCS Tech on site to install replacement thermocouple module at the FAL flare PLC and for troubleshooting and repair of telephone lines for the FAL autodialer and fire alarm system. Continued with silt fencing repairs. Extraction well temp plug repairs. Russell Reid on site for removal of 7,000 gallons of condensate from the FAL Flare Station.
Friday	5-Apr	Overcast	64	52	40	T	MOG,EM,EEM,JM	Cleared area around open manhole at FAL and installed safety barrier. Discovered another manhole and a sink hole in the same area. Stenciled perimeter gas monitoring well ID numbers. Swept and organized storage container. Off-loaded delivery of materials for work order repairs.
Weekend	6-Apr		49	43	36	0.00		
	7-Apr		52	45	37	T		
Monday	8-Apr	Scattered clouds	68	55	42	0.00	EM,EEM,JM	FAL flare off line; reset the blower soft start and fired up the flare. Polished the sheaves on FAL Blower No. 1 pulleys and placed the unit in service. Replaced the cleaned and painted guard on Blower No. 2 and switched back to No. 2. Removed the guard on Blower No. 3 to be painted. Cleared the area round the other manhole and installed safety barrier. Attempted to retrieve cover after removing the grate and tire but could not dislodge it. Stormwater System inspections.
Tuesday	9-Apr	Mostly cloudy, windy	83	65	47	0.00	EEM,JM	Cleaned , prepared and painted FAL Blower No. 3 belt guard.
Wednesday	10-Apr	Mostly cloudy	71	62	53	0.59	EM,EEM,JM	Several attempts made to restart the FAL flare, cleaned the flame monitoring eye and reset the system. Replaced the FAL trailer front door light. Repaired FAL pilot gas pressure gauge
Thursday	11-Apr	Overcast	60	54	47	0.00	EM,JM	Cleaned and polished the pulleys, and replaced the belts on Blower No. 1.
Friday	12-Apr	Steady light rain	48	45	41	0.87	KR,EM,JM	Changed the front louver lever arm connecting rods and repaired a gas leak on the pilot fuel line at the FAL. Restarted the FAL flare, placing Blower No. 1 in service. Checked swales for drainage.
Weekend	13-Apr		58	49	39	0.01		
	14-Apr		59	52	45	T		

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: APRIL 2013

	Date	Weather	Ambient Temp. (°F)			Precipitation (inches)	OM&M Personnel On Site	Comments
			High	Avg.	Low			
Monday	15-Apr	Overcast	53	48	43	0.00	EM,JM	Changed the rear louver lever arm connecting rods and monitored the FAL flare temperature. Stormwater System inspections. Cleared trench in FAL Swale D1X to allow drainage.
Tuesday	16-Apr	Scattered clouds	58	52	45	T	EEM,JM	Switched from FAL Blower No. 1 to Blower No. 2. Cleaned, prepared and painted the FAL fire
Wednesday	17-Apr	Mostly cloudy	70	59	47	0.01	EM,EEM,JM	Reset FAL Blower No. 2 soft start twice Placed Blower No. 1 in service. Replaced the FAL nitrogen tank. Reopened trench to drain FAL Sale D1X.
Thursday	18-Apr	Mostly cloudy	57	51	45	T	EM,EEM	Adjusted belts on FAL Blower No. 1. Switched to Blower No. 2. Lubricated the bearings on Blower No. 1. Cleaned area around fire hydrant at entrance to the FAL. FDNY on site for fire hydrant inspection. Painted fire hydrant pylons.
Friday	19-Apr	Early drizzle, fog all day	65	58	50	0.07	EM,EEM	Lubricated the flare lovers. Washed and performed maintenance on the site utility vehicle. FAL extraction well repairs.
Weekend	20-Apr		59	52	45	0.18		
	21-Apr		54	46	37	0.00		
Monday	22-Apr	Scattered clouds	53	45	37	0.00	MOG,EM,EEM,JM	Pumped out and inspected extraction well vaults at both sites.
Tuesday	23-Apr	Overcast	52	47	42	T	MOG,EEM,JM	Replaced the electrolyte in the FAL oxygen sensor, and calibrated it. Stormwater System inspections. Continued inspection of extraction well vaults.
Wednesday	24-Apr	Scattered clouds	58	50	42	0.00	MOG,EM,EEM,JM	Repaired potholes on the road that provides access to the FAL flare. Lubricated site landscaping and plowing equipment. Pumped out FAL-EW-45, took readings; the sampling leads need to be replaced.
Thursday	25-Apr	Partly cloudy	64	55	46	T	MOG,EM,EEM,JM	FDNY Inspection of the FAL and PAL flare stations. Function was approved; however, an NOV was issued for approval document for the replacement of the fire panel damaged by Hurricane Sandy. Penn flare LEL sensor required calibration after the inspection and the flare was returned to service. The FAL flare would not stay on-line even after repeated attempts to reset. Pumped vaults and inspected extraction wells.
Friday	26-Apr	Partly cloudy	65	54	43	0.00	MOG,EM,EEM,JM	The FAL flare was placed back on-line. Lubricated the FAL flare louvers. Site vehicles State inspections. Removed debris from FAL Swale D2X. Cleared debris from Penn entrance, parking lots and front swales.
Weekend	27-Apr		66	56	46	0.00		
	28-Apr		63	54	45	0.00		
Monday	29-Apr	Steady light rain	55	53	50	0.05	MOG,EM,EEM,JM	Assembled and installed temporary covers over open manholes at the FAL. Also used spare manhole from Penn to cover open manhole on FAL parking lot. Repaired potholes on Road A.
Tuesday	30-Apr	Mostly cloudy	61	56	51	0.00	MOG,EEM,JM	DEP, LKB and Stratis phone conference re. work order status and FDNY-NOV. Notified by Security of hole in fence under Erskin overpass. Fence has been destroyed and materials will be procured for its repair. Removed sediment from FAL-EW-152. Upon second visit to check flare, noted that FAL blower No. 1 was squealing due to loose belts, switched operation to Blower No. 2.

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT DAILY FLOWS
EFFLUENT TO 26TH WARD WWTP

MONTH: MAY 2013

	Time		PI 100	TI 100	FT-100 Flow Transmitter 10 Gallon Count Readings			Operator Interface Flow Totalizer Reading			Wet Well Elevation	
	Hour	Min.	(psi)	(°F)	Reading	Previous Reading	Diff.	Reading	Previous Reading	Diff.	PS#1	PS#2
1	7	15	1	54	9534164	9531944	2220	19855138	19823307	31831	-4.3	-3.6
2	7	44	1	54	9536395	9534164	2231	19887291	19855138	32153	-4.3	-3.5
3	7	45	1	55	9538557	9536395	2162	19918447	19887291	31156	-4.3	-3.6
4												
5												
6	8	06	1	54	9545083	9538557	6526	20012349	19918447	93902	-4.3	-3.6
7	7	20	4	55	9547085	9545083	2002	20040243	20012349	27894	-4.3	-3.6
8	7	38	1	57	9549329	9547085	2244	20072599	20040243	32356	-4.3	-3.5
9	7	40	1	56	9551945	9549329	2616	20109949	20072599	37350	-4.3	-3.5
10	7	22	1	57	9554637	9551945	2692	20148194	20109949	38245	-4.3	-3.5
11												
12												
13	7	25	1	55	9562975	9554637	8338	20267775	20148194	119581	-4.3	-3.5
14	7	55	1	55	9565670	9562975	2695	20305971	20267775	38196	-4.3	-3.4
15	7	40	1	56	9568161	9565670	2491	20341391	20305971	35420	-4.3	-3.4
16	7	27	1	58	9570625	9568161	2464	20375960	20341391	34569	-4.3	-3.4
17	7	37	1	60	9573044	9570625	2419	20410499	20375960	34539	-4.3	-3.4
18												
19												
20	7	33	1	58	9579862	9573044	6818	20506340	20410499	95841	-4.3	-3.4
21	7	45	1	60	9582148	9579862	2286	20538437	20506340	32097	-4.3	-3.5
22	7	27	1	61	9584388	9582148	2240	20569659	20538437	31222	-4.3	-3.5
23	7	55	1	60	9586721	9584388	2333	20602053	20569659	32394	-4.3	-3.5
24	7	19	1	60	9588976	9586721	2255	20633714	20602053	31661	-4.3	-3.5
25												
26												
27					HOLIDAY							
28	7	40	1	59	9598110	9588976	9134	20762140	20633714	128426	-4.3	-3.5
29	7	00	1	59	9600317	9598110	2207	20793114	20762140	30974	-4.3	-35
30	7	45	1	62	9602653	9600317	2336	20825842	20793114	32728	-4.3	-3.6
31	8	20	1	65	9604959	9602653	2306	20858330	20825842	32488	-4.3	-3.6
3-JUN	8	06	1	64	9611621	9604959	6662	20953022	20858330	94692	-4.3	-3.6

PENNSYLVANIA AVENUE LANDFILL
Groundwater/Leachate Discharge Operation

MONTH:	MAY		Year:	2013							
			Pump Station No. 1		Pump Station No. 2		Discharge System			
Weekday	Date	Time	Normal	Not Normal	Normal	Not Normal	Normal	Not Normal	Comments	Tech
Monday										
Tuesday										
Wednesday	5-1-13	7:15AM	✓		✓		✓			EEM
Thursday	5-2-13	7:44AM	✓		✓		✓			EEM
Friday	5-3-13	7:45AM	✓		✓		✓			EEM
Monday	5-6-13	8:06AM	✓		✓		✓			EEM
Tuesday	5-7-13	7:20AM	✓		✓		✓			EEM
Wednesday	5-8-13	7:38 AM	✓		✓		✓			EEM
Thursday	5-9-13	7:40AM	✓		✓		✓			EEM
Friday	5-10-13	7:22AM	✓		✓		✓			EEM
Monday	5-13-13	7:25AM	✓		✓		✓			EEM
Tuesday	5-14-13	7:55AM	✓		✓		✓			EEM
Wednesday	5-15-13	7:40AM	✓		✓		✓			EEM
Thursday	5-16-13	7:27AM	✓		✓		✓			EEM
Friday	5-17-13	7:37AM	✓		✓		✓			EEM
Monday	5-20-13	7:33AM	✓		✓		✓			EEM
Tuesday	5-21-13	7:45AM	✓		✓		✓			EEM
Wednesday	5-22-13	7:27AM	✓		✓		✓			EEM
Thursday	5-23-13	7:55AM	✓		✓		✓			EEM
Friday	5-24-13	7:19AM	✓		✓		✓			EEM
Monday	HOLIDAY									
Tuesday	5-28-13	7:40AM	✓	✓	✓		✓			EEM
Wednesday	5-29-13	7:00AM	✓		✓		✓			EEM
Thursday	5-30-13	7:45AM	✓		✓		✓			EEM
Friday	5-31-13	8:20AM	✓		✓		✓			EEM

Additional Comments:

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: MAY 2013

	Date	Weather	Ambient Temp. (°F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Wednesday	1-May	Sunny	65	54	43	0	EM,JM,EEM	Adjusted the belts on FAL Blower No. 1 and placed it in service. Site utility vehicle maintenance. Was notified by Security of hole in fence at the Ersking overpass. Investigation revealed hole was by overpass between the landfills on the FAL side. Took photos and inspected to determine repair. Mowed area surrounding the GWL warehouse.
Thursday	2-May	Clear	63	54	44	0	EM,JM,EEM	Continued PAL landscaping. Extraction well readings at Penn. All the vaults where the valve was submerged were pumped out for inspection.
Friday	3-May	Sunny	61	54	47	0	MOG,EM,JM,EEM	Obtained materials for fence repair. Landscaping equipment PM. Removed weeds around the FAL trailer. Repaired hole in fence in the vicinity of the gate to 26 Ward WWTP. Continued the Penn extraction well readings, and, as previously, all vaults with submerged valves were pumped out. NR & JD (URS) on site.
Weekend	4-May		64	55	45	0		
	5-May		57	51	44	0		
Monday	6-May	Mostly cloudy	62	54	45	0	MOG,EM,JM,EEM	FAL flare fire alarm due to "IR source fault", FDNY responded. Collecting M1 samples. Repaired the fence under the overpass between landfills on the FAL side. Gas meter PM and calibration. Reset and calibrated the FAL LEL sensors. FAL Oxygen sensor lost programming.
Tuesday	7-May	Mostly cloudy	72	60	48	T	MOG,JM,EEM	Completed the M1 sample collection and delivered them to the laboratory. Site utility vehicle broke down and had to be towed. FAL flare shutdown and reset.
Wednesday	8-May	T-storm, rain	64	60	55	1.54	MOG,EM,JM,EEM	Stormwater Management System inspection. FAL flare went down several times due to middle thermocouple malfunction; it was reset, adjusted and monitored until it remained on for some time. Later on in the day it tripped again on low temp. Stormwater System inspections, cleared the downchutes and opened, and re-opened the trench in FAL Swale D1X to allow drainage. Troubleshooting of utility vehicle points to a broken connecting rod; will send out for repairs.
Thursday	9-May	Overcast, rain	70	63	55	0.75	EM,JM,EEM	Data entry. Continued to monitor the FAL flare operation. Re-programmed and calibrated the FAL oxygen sensor. FAL flare T/C malfunction, flare not reaching temperature, left off-line at site departure. In spite of rain showers throughout the day, intruders were spotted on Road A by the wetlands at the FAL; they were informed that they were trespassing and asked to leave.
Friday	10-May	Mostly cloudy	76	65	54	T	EM,JM,EEM	
Weekend	11-May		65	62	59	0.39		
	12-May		70	61	51	0.02		
Monday	13-May	Mostly cloudy	58	52	46	0	MOG,EM,JM,EEM	Fabricated drainage for FAL Swale F2 and drained it. Continued to monitor FAL flare operation. Observed worsening rutting in area between EW-250 and EW-263. Landscaping of area around Penn DEP trailer and entrance.
Tuesday	14-May	Scattered clouds	60	52	43	0	EM,JM,EEM	Pumped water out of FAL Swale F2. Prepared equipment for road embankment and swale

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: MAY 2013

Date		Weather	Ambient Temp. (°F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Wednesday	15-May	Overcast	62	55	48	0.03	MOG,EM,JM,EEM	Checked valves on FAL EW-106 and EW-168. Closed EW-106. Pumped EW-168 vault and inspection revealed that the riser needs to be cut to adjust header slope, and that there was water intrusion from the side of the vault. Corrected clocks at the FAL Flare Station.
Thursday	16-May	Mostly cloudy	74	65	56	T	MOG,EM,EEM	
Friday	17-May	Mostly cloudy	73	64	55	0	EM,EEM	Landscaping around FAL trailers. Drained FAL Swale F2. Landscaping around FAL trailer and parking lot.
Weekend	18-May		63	59	54	0.01	EM	On site to reset the FAL flare.
	19-May		58	57	55	0.45		
Monday	20-May	Fog, cloudy	72	65	57	T	MOG,EM,JM,EEM	Pumped water out of FAL Swale F2. Removed sediment from FAL EW-152. Replaced the FAL nitrogen tank..
Tuesday	21-May	Fog, scattered clouds	77	69	60	0	EM,JM,EEM	Clearing access to the extraction wells. Continue to monitor FAL flare operation and the middle thermocouple fault. Washed, loaded and delivered utility vehicle to repair shop.
Wednesday	22-May	Overcast, light drizzle	72	65	58	T	MOG,JM,EEM	Continued clearing access to the extraction wells.
Thursday	23-May	Mostly cloudy, light rain	71	66	61	0.03	MOG,JM,EEM	W.Goyzueta and R.Villacres on site, re. perimeter fence and security breach issues. Continued clearing access to the extraction wells. Was notified by Security that fence under the overpass had been reopened; the hole was repaired.
Friday	24-May	Light rain, overcast	69	58	46	0.2	MOG,JM,EEM, DF,PR	Performed a thorough perimeter fence inspection; repairs were intact and no additional holes were observed. However, it should be noted that access can be gained at points that are not fenced, such as the one found at the South end of the FAL wetlands, and along the shoreline during low tide. Two fishermen were spotted; Security was notified and the trespassers were ejected. Crew on site to perform temporary repairs to FAL Swale F2 and slope erosion to prevent further damage.
Weekend	25-May		57	51	45	0.07		
	26-May		68	58	48	0		
Monday	27-May	Partly cloudy	70	59	48	0		**HOLIDAY**
Tuesday	28-May	Rain	68	61	53	0.54	MOG,EM,JM,EEM	FAL flare off line due to flame failure and T/C-2 open, it was reset and relit. Continued clearing access to the extraction wells. Received nitrogen delivery.
Wednesday	29-May	Overcast, haze	75	66	56	0	EM,JM,EEM	Continued clearing access to the extraction wells. Perimeter inspection revealed that the repair on the fence under the overpass had not been reopened, but the hole thing had been pushed down to allow entry; made temporary repair. Mowed around Penn DEP trailer, Security trailer, entrance and parking lots. Replaced the blades on the sickle bar mower.
Thursday	30-May	Scattered clouds	86	75	63	0	EM,JM,EEM	Continued changing blades on the sickle bar mower. Observed intruders, notified Security, and when approached discovered they had left the site.. Pumped extraction well vaults and performed maintenance. Landscaped access to the extraction wells.
Friday	31-May	Scattered clouds	84	75	65	0	MOG,EM,JM,EEM	Pumped FAL EW-71 vault, performed repairs and re-connected the sampling extensions. Repaired the fence under the overpass. Started mowing road shoulders and swales at Penn.

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT DAILY FLOWS
EFFLUENT TO 26TH WARD WWTP

MONTH: JUNE 2013

	Time		PI 100	TI 100	FT-100 Flow Transmitter 10 Gallon Count Readings			Operator Interface Flow Totalizer Reading			Wet Well Elevation	
	Hour	Min.	(psi)	(°F)	Reading	Previous Reading	Diff.	Reading	Previous Reading	Diff.	PS#1	PS#2
1												
2												
3	8	06	1	64	9611621	9604959	6662	20953022	20858330	94692	-4.3	-3.6
4	7	50	1	63	9613795	9611621	2174	20983817	20953022	30795	-4.3	-3.7
5	7	16	1	62	9615883	9613795	2088	21013384	20983817	29567	-4.3	-3.6
6	8	20	1	62	9618109	9615883	2226	21044994	21013384	31610	-4.3	-3.6
7	7	25	3	61	9620179	9618109	2070	21074831	21044994	29837	-4.3	-3.6
8												
9												
10	7	20	1	64	9628764	9620179	8585	21198028	21074831	123197	-4.0	-3.3
11	7	15	1	64	9631696	9628764	2932	21240733	21198028	42705	-3.9	-3.2
12	7	15	1	65	9634689	9631696	2993	21284053	21240733	43320	-3.7	-3.0
13	7	34	1	64	9637637	9634689	2948	21326767	21284053	42714	-3.8	-3.1
14	7	45	1	60	9640544	9637637	2907	21367423	21326767	40656	-3.8	-3.1
15												
16												
17	7	38	1	65	9648858	9640544	8314	21485362	21367423	117939	-3.6	-3.0
18	7	20	2	66	9651097	9648858	2239	21517240	21485362	31878	-3.4	-2.9
19	7	07	1	64	9653605	9651097	2508	21553275	21517240	36035	-3.6	-2.9
20	7	33	1	64	9656307	9653605	2702	21591404	21553275	38129	-3.7	-3.0
21	7	15	1	64	9658929	9656307	2622	21628389	21591404	36985	-3.7	-3.1
22												
23												
24	6	44	1	67	9666811	9658929	7882	21739910	21628389	111521	-3.9	-3.1
25	7	14	1	68	9669502	9666811	2691	21778123	21739910	38213	-3.9	-3.2
26	8	00	1	70	9672213	9669502	2711	21816811	21778123	38688	-3.9	-3.2
27	7	35	1	70	9674778	9672213	2565	21855583	21816811	36772	-3.9	-3.2
28	7	50	1	69	9677378	9674778	2600	21891387	21855583	37804	-3.9	-3.2
29												
30												
31												
Jul 1	9	00	1	68	9685201	9677378	7823	22005657	21891387	114270	-4.0	-3.3

PENNSYLVANIA AVENUE LANDFILL
Groundwater/Leachate Discharge Operation

MONTH:		Year:								
			Pump Station No. 1		Pump Station No. 2		Discharge System			
Weekday	Date	Time	Normal	Not Normal	Normal	Not Normal	Normal	Not Normal	Comments	Tech
Monday	6-3-13	8:06AM	✓		✓		✓			EEM
Tuesday	6-4-13	7:50AM	✓		✓		✓			EEM
Wednesday	6-5-13	7:19AM	✓		✓		✓			EEM
Thursday	6-6-13	8:20AM	✓		✓		✓			EEM
Friday	6-7-13	7:25AM	✓		✓		✓			EEM
Monday	6-10-13	7:20AM	✓		✓		✓			EEM
Tuesday	6-11-13	7:15AM	✓		✓		✓			EEM
Wednesday	6-12-13	7:15AM	✓		✓		✓			EEM
Thursday	6-13-13	7:34AM	✓		✓		✓			EEM
Friday	6-14-13	7:45AM	✓		✓		✓			EEM
Monday	6-17-13	7:38AM	✓		✓		✓			EEM
Tuesday	6-18-13	7:20AM	✓		✓		✓			EEM
Wednesday	6-19-13	7:07AM	✓		✓		✓			EEM
Thursday	6-20-13	7:33AM	✓		✓		✓			EEM
Friday	6-21-13	7:15AM	✓		✓		✓			EEM
Monday	6-24-13	6:44AM	✓		✓		✓			EEM
Tuesday	6-25-13	7:14AM	✓		✓		✓			EEM
Wednesday	6-26-13	8:00AM	✓		✓		✓			EEM
Thursday	6-27-13	7:35AM	✓		✓		✓			EEM
Friday	6-28-13	7:50AM	✓		✓		✓			EEM
Monday										
Tuesday										
Wednesday										
Thursday										
Friday										

Additional Comments:

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: JUNE 2013

	Date	Weather	Ambient Temp. (^{0}F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Weekend	1-Jun		79	72	64	0		
	2-Jun		74	69	63	0.01		
Monday	3-Jun	Sunny	76	69	62	0.37	MOG,EM,JM, EEM,DF	N.Callipo, M.Geddish (LKB) on site. Preliminary work on FAL Road G and Swale F2. Mowed roadsides at Penn. The FAL PLC had to be reset. Performed a perimeter inspection, and repaired holes in the fence at both Penn and Fountain. Site computer was infected with a virus; important data not lost due to timely backup.
Tuesday	4-Jun	Sunny	76	68	59	0	MOG,EM,JM, EEM,DF	S. Furhman (LKB) on site. Preliminary work on FAL Road G and Swale F2. Mowed and landscaped access, serviced and monitored Penn extraction wells. Truck carrying road material tipped over at the FAL. Reported trespasser to Security; checked for breach in fence, none found. Worked on site computer system recovery. Problems loading Landtec drives.
Wednesday	5-Jun	Sunny	71	64	57	0	MOG,KR,JM,EEM, DM,DF	Received call from Central Monitoring Station at 2:44 am regarding the FAL fire panel Comm 2 supervisory fault. The Penn flare lost power at 6:45 am, inspection revealed there were no tripped breakers and the system could not be reset; scheduled visit by electrician. Showed Security point of access taken by trespassers into the FAL; two fishermen were escorted out. Continued landscaping access to the Penn and FAL extraction wells. Erosion on Road B was repaired. Meeting held at the FAL: DEP/LKB/Stratis.
Thursday	6-Jun	Overcast with increasing cloudiness and winds	71	65	58	0.03	MOG,EM,JM,EEM , DM,DF	NR and JD (URS) and S.Furhman (LKB) on site. Walton Electric on site to troubleshoot power loss at the Penn flare; found defective surge protector and short circuit in oxygen monitoring system. Need to replace the cabinet heater thermostat and the surge protector; used alternate to restore power to system. Flare was placed back on-line at 11:30 AM. Mowing access to FAL extraction wells. Site equipment inspection and PM. Collected M1 samples. Started cleaning the Penn DEP trailer.
Friday	7-Jun	Heavy rain and windy	64	62	60	4.01	MOG,EM,JM,EEM	Continued mowing access to FAL extraction wells. Completed the M1 sample collection and delivered them to the laboratory. Finished cleaning the accessible areas of the Penn DEP trailer. Checked stormwater system in the afternoon, during period of heavy rain; swales were flowing and runoff was contained within the stormwater system.
Weekend	8-Jun	Partly sunny	76	67	57	0.38	PJ, EEM	South Brooklyn Bike and Hike sponsored by the Jamaica Bay Greenway Coalition Partners and Friends. R.Villacres and J.McLaughlin (DEP) on site.
	9-Jun		78	71	64	0		
Monday	10-Jun	Rain, at times heavy	69	66	63	1.38	MOG,EM,JM, EEM,DF	S. Furhman (LKB) on site. FAL Road G and Swale F2 repairs. Performed the perimeter inspection and repaired hole in fence by overpass. Continued mowing access to FAL extraction wells. Data entry. Landfill inspections to determine impact of heavy rains; storm system working as intended and roads experienced some further erosion. Penn Road D embankment water still present. Fountain inspection revealed further erosion on Roads C and F, and some ruts developed on Road D. Preliminary work and set-up for repairs to FAL Road G and Swale F2 to prevent further damage.

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: JUNE 2013

	Date	Weather	Ambient Temp. (°F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Tuesday	11-Jun	Mostly cloudy	81	73	65	0.02	MOG,EM,JM, EEM,DF	S. Furhman (LKB) on site. FAL Road G and Swale F2 repairs. Continued landscaping access to extraction wells.
Wednesday	12-Jun	Scattered clouds	78	70	61	0	EM,JM, EEM,DF	S. Furhman (LKB) on site. FAL Road G and Swale F2 repairs. Landscaping swales and site entrance. At LKB's request, attempted to open the water main valve vault at the entrance to the FAL unsuccessfully due to utility bolts.
Thursday	13-Jun	Overcast, heavy rain, T-storms	66	61	56	0.99	MOG,JM, EEM,DF	S. Furhman (LKB) on site. Completed FAL Road G and Swale F2 repairs. Opened the water main valve vault and took photographs; replaced a damaged bolt on the lid. NYPD responded to Security's call after attempt to evict trespasser failed. Storm event inspections showed Penn Road D runoff coming from eroded road wall. The FAL trailer entrance overhang roof sprang a hole. Both stormwater management systems were flowing.
Friday	14-Jun	Partly sunny	72	63	54	0.15	MOG,EM,JM,EEM	Stormwater and road inspections. Roads showing signs of further erosion in areas where repair is needed. Penn Road D increased erosion and water running below the road. Observed that FAL Swale D1X was flowing. Landscaped area behind Penn DEP trailer to provide access to the septic holding tank. Data entry. FAL Flare would not reset and was off line for the weekend.
Weekend	15-Jun		82	72	62	0		
	16-Jun		80	71	62	T		
Monday	17-Jun	Overcast	82	75	67	0.13	MOG,EM,JM,EEM , DM,KR,DF, RP,JD,GD	Crew working on repair of exposed liner edge on Belt Pkwy side perimeter at the FAL. Walton Electric on site to disconnect power to the FAL Security trailer. Started work to replace Security trailer. Continued mowing access to FAL extraction wells. Extraction well adjustments and inspections. Collected FAL condensate samples and delivered them to the laboratory.
Tuesday	18-Jun	Scattered clouds	78	72	65	0.2	MOG,JM,EEM,DM , DF,RP,JD,GD	Crew completed repair of exposed liner edge on perimeter at the FAL. Performed the perimeter inspection and found hole in the FAL fence. Fabricated "No Trespassing" sign posts to be installed at the FAL access points where there is no fence. Pumped water out of vaults, made extraction well adjustments and opened valves to drain condensate.
Wednesday	19-Jun	Haze	77	69	60	T	EM,JM,EEM,DM, DF,RP,JD,GD	S. Furhman (LKB) on site. Crew working on wetland berm repairs. Completed fabrication of "No Trespassing" posts and installed them at un-fenced access points. Repaired hole in fence along the slope in the bike path at the FAL. Replaced the valve at FAL EW-205. Tried to repair FAL EW-98 boot. Work order needed for repair of the boot and for cutting risers to adjust lateral slopes. Security trailer delivered to the FAL.

PENNSYLVANIA & FOUNTAIN AVENUE LANDFILLS
Daily Operations Monthly Report - Weather and General Comments
Month: JUNE 2013

	Date	Weather	Ambient Temp. (°F) High	Avg.	Low	Precipitation (inches)	OM&M Personnel On Site	Comments
Thursday	20-Jun	Clear	74	67	59	0	MOG,JM,EEM,DF, PR,MW,RP,JD,GD	S. Furhman (LKB) on site. Crew working on wetland berm repairs. Security trailer replacement. Walton Electric on site to run conduit and rewire new FAL Security trailer, and to repair the outdoor lighting at the poles in the FAL entrance and parking lots. Also investigated loss of power to the FAL flare oxygen and LEL sensors, found short circuit in wiring, further troubleshooting and work needed. Extraction well investigation and adjustments. Monitored FAL header isolation valves V-54 and V-55; V-56 ports were chewed by rodents and need to be replaced. Penn EW-21 valve is broken and will be replaced.
Friday	21-Jun	Scattered clouds	76	68	59	0	MOG,JM,EEM,DF, PR,MW,RP,JD,GD	Crew working on wetland berm repairs. Mowed access to extraction wells. FAL extraction well investigation, adjustments and condensate drainage. FAL EW-248 header and vault are flooded; drainage was attempted by opening connected EW valves, isolation valve adjustments and pumping water out, the well remained flooded and could not be monitored. Site utility vehicle PM.
Weekend	22-Jun		77	69	61	0		
	23-Jun		80	73	65	0.03		
Monday	24-Jun	Scattered clouds, T-storm	90	80	70	T	EM,JM,EEM, DM,DF,PR, MW,RP,JD,GD	Crew working on wetland berm repairs. Performed perimeter inspection, and repaired hole in FAL fence. Weed-wacked around extraction wells. FAL flare tripped temp/flame lost fault and could not be reset.
Tuesday	25-Jun	Mostly cloudy	91	81	70	T	MOG,JM,EEM, DM,DF,PR, MW,RP,JD,GD	Crew working on wetland berm repairs. Mowed access to extraction wells. Extraction well inspection and adjustments.
Wednesday	26-Jun	Mostly cloudy	85	78	71	0.1	EM,JM,EEM	Walton Electric on site to continue troubleshooting oxygen and LEL sensors, found short circuit due to damaged wiring. Worked on oxygen sensor and intake LEL sensor wiring; will return to replace wiring in conduit between LEL at stack and control panel. Mowed access to Penn groundwater and perimeter gas monitoring wells and began mowing Penn swales. Landscaped path to extraction wells.
Thursday	27-Jun	Mostly cloudy	84	78	71	0.13	MOG,EM,JM,EEM	Cleared paths to extraction wells so that adjustments could be made. Adjustments and condensate drainage. Replaced all the air conditioner filters and damaged light units at the FAL DEP trailer. For safety reasons, removed the locking bar from the new FAL Security trailer. Removed and filed contents of BDEC offices, and cleaned them for BWT and BEPA employees. Cleaned and organized the storage closet.
Friday	28-Jun	Mostly cloudy	82	77	71	T	MOG,EM,JM,EEM	Landscaped around extraction wells to provide access. Repaired and replaced locks in DEP trailer doors. Observed that FAL Blower No. 1 belts were making noise, adjusted and will be monitored to determine if belt replacement is needed. FAL EW-126 and EW-129, opened on the 27th to drain condensate, were still draining - left open to continue draining over the weekend.
Weekend	29-Jun		80	75	69	T		
	30-Jun		81	75	69	0.02		

Groundwater Leachate Pretreatment

GWL-1 Biweekly Inspections

(April, May and June, 2013)

GWL-1

Date: 4-2-13
Time: 7:51AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 45.82 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.36 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes			**(ONCE WEEKLY)**
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110			**(ONCE WEEKLY)**
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-2-13 Inspected by: GE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date:		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83301.9

GWL-1

Date: 4-4-13
Time: 7:40 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 48.78 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.36 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes			**(ONCE WEEKLY)**
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110			**(ONCE WEEKLY)**
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-4-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date:		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date:		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83302.6 FTS

GWL-1

Date: 4-9-13
Time: 7:22 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 45.36 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☐ On	☐ Off
Frequency: 50.44 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-9-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date:		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83302.6 FTB

GWL-1

Date: 4-11-13.
Time: 8.20a.
Inspected By: E. McLean.

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 45.45.00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.38.00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes			**(ONCE WEEKLY)**
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110			**(ONCE WEEKLY)**
A. Record storage tank level _____			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed _____ gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-11-13. Inspected by: E. McLean.

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.1 43

GWL-1

Date: 4-16-13
Time: 7:21 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 45.09 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.42 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes			**(ONCE WEEKLY)**
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110			**(ONCE WEEKLY)**
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-16-13 Inspected by: _____

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date:		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83302.6 FT3

GWL-1

Date: 4-18-13
Time: 7:30AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 44.72 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.44 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (v) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-18-13 Inspected by: EEMcLEAN

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 88302.6 FTS

GWL-1

Date: 4-23-13
Time: 7:31 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 44.17 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.42 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-23-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83302.6 FTS

GWL-1

Date: 4-25-13
Time: 7:07 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 44.26 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.42 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☐ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☐ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-25-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 8033 83302.6 FFS

GWL-1

Date: 4-30-13
Time: 7:07 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 44.17 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.39 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 4-30-15 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 88302.6 FT3

GWL-1

Date: 5-2-13
Time: 7:44 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 42.86 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.38 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-2-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83305.2 FTS

GWL-1

Date: 5-7-13
Time: 7:20 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 48.80 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 60.58 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-7-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83306.3 FT3

GWL-1

Date: 5-9-13
Time: 7:40AM
Inspected By: E.E. McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 42.84 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 60.38 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-9-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: ~~80337.2~~ FTS 93307.2 FTS

GWL-1

Date: 5-14-13
Time: 7:55 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS		ACTION	
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 46.94 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.44 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-14-13 Inspected by: EEMcLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83307.8 FTS

GWL-1

Date: 5-16-13
Time: 7:27AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 46.27 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 60.40 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-16-13 Inspected by: EEMcLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83307.8 FTS

GWL-1

Date: 5-21-13
Time: 7:45AM
Inspected By: CE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 46.72.00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.31 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-21-13 Inspected by: EEMcLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83307.8 FTS

GWL-1

Date: 5-23-13
Time: 7:55 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 47.12 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 60.42 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-23-13 Inspected by: GS McLaw

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date:		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83307.8 FKS

GWL-1

Date: 5-28-13
Time: 7:40AM
Inspected By: ES McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 44.63.00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.40.00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-28-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83308.0 FTS

GWL-1

Date: 5-30-13
Time: 7:45 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 46.38 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.43 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 5-30-13 Inspected by: ESMcLow

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date:		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83308.0 FTS

GWL-1

Date: 6-27-13
Time: 7:35 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 41.15 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 52.30 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-27-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.5

GWL-1

Date: 6-25-13
Time: 7:14 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 42.96 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.43 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-25-13 Inspected by: EEMcLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.3

GWL-1

Date: 6-20-13
Time: 7:33AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 48.70 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.32 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-20-13 Inspected by: EE McLEAN

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.3 FTS

GWL-1

Date: 6-18-13
Time: 7:20AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 48.96 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.46 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-18-13 Inspected by: EGMcLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A		☐ Yes	☑ No
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.3 FT3

GWL-1

Date: 6-13-13
Time: 7:34 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 43.10 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.42 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-13-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 833033 FTS

GWL-1

Date: 6-11-13
Time: 7:15 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 43.12 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.32 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-11-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.3 Frs

GWL-1

Date: 6-6-13
Time: 8:20 AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 42.96 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.43 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes			**(ONCE WEEKLY)**
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110			**(ONCE WEEKLY)**
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-6-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☑ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☑ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83303.1 FT3

GWL-1

Date: 6-4-13
Time: 7:50 AM
Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

Plant Operation switched to Diverted Mode on November 1, 2011

INSPECTION AND MAINTENANCE TASKS		ACTION	
1. Pump Stations #1			
A. Variable Frequency Drive	☑ On	☐ Off	
Frequency: 43.05 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
2. Pump Stations #2			
A. Variable Frequency Drive		☑ On	☐ Off
Frequency: 50.40 .00 Hz			
B. Running Light (Green)	☑ Bulb	☑ On	☐ Off
C. By-Pass Light (White)	☑ Bulb	☐ On	☑ Off
D. Selector Switch Position	☑ Drive	☐ Off	☐ By-pass
E. Selector Switch Position	☑ Auto	☐ Manual	
3. Pumping Stations #1 and #2 Manholes		**(ONCE WEEKLY)**	
A. Pump Station No.1 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
B. Pump Station No. 2 leak detection riser observation:			
Leak detected		☐ Yes	☑ No
C. Leak Detection /Drain Manhole at Sta. B14+97.32 riser observation:			
Leak detected		☐ Yes	☑ No
D. Inspect Leachate Air/Vacuum release manhole			
Leak detected		☐ Yes	☑ No
E. Air/Vacuum release system function		☑ Normal	☐ Fail
4. Product Storage T-110		**(ONCE WEEKLY)**	
A. Record storage tank level N/A			
B. Coordinate tanker schedule for product removal		☐ Yes	☑ No
C. Record total gallons removed N/A gallons			
D. Monitor tanker procedures		☐ Yes	☑ No
5. Acid Feed Pump P-203			
A. Running Light (Amber)		☐ On	☑ Off
B. Stroke Setting N/A %			
C. Acid Storage Tank Level N/A inches			

Note: When checking bulbs, check (√) box off to indicate that the bulb has been checked. If the bulb does **not** work place a large **X** in the box and notify your supervisor.

GWL-1 Date: 6-4-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Oil Water Separator Tank			
A. Skimming Date: N/A	B. Tank Cleaning Date: N/A		
7. OWS Product Pump P-204			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
8. Sludge Pump P-205			
A. Running Light (Red)	☐ Bulb	☐ On	☑ Off
B. Sludge Storage Tote Level N/A			
C. Sludge Transfer Date: N/A	D. Decant Tote Date: N/A		
9. Transfer Pump P-201			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
Transfer Pump P-202			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Green)	☐ Bulb	☐ On	☐ Off
C. By-Pass Light (White)	☐ Bulb	☐ On	☐ Off
D. Selector Switch Position	☐ Drive	☐ Off	☐ By-Pass
E. Selector Switch Position	☐ Auto	☐ Manual	
F. VFD Frequency: 0.00 .00 Hz			
10. In-Line Bag Filters			
A. Check and record DPT-201 reading N/A psi			
B. Arrangement: ☐ Series ☐ Parallel	C. Leading Filter: ☐ F-201 ☐ F-202		
D. Replace Filters: Date: N/A	☐ Yes	☑ No	
11. Leachate Discharge Transfer Pumps P-301			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
Leachate Discharge Transfer Pumps P-302			
A. Circuit Breaker Switch		☐ On	☑ Off
B. Running Light (Red)	☐ Bulb	☐ On	☐ Off
12. Carbon Absorption System			
A. Record leachate flow through Carbon Absorber		10 Gallon Count	
Date/time: N/A	**Reading:**	N/A	
Date/time: N/A	**Previous Reading:**	N/A	
B. Record DPT-301 reading N/A psi	**Quantity:**	N/A	
C. Replace filter F-301 Date: N/A	D. Backwash Date: N/A		
E. Arrangement: ☐ Series ☐ Parallel	F. Leading Absorber: ☐ F-201 ☐ F-202		
G. Pressure Gauge Local Readings:	Carbon Absorbers Influent: N/A psi		
F-301 Filter Effluent: N/A psi	Carbon Absorbers Effluent: N/A psi		

City Water Meter Reading: 83302.4 FTS

Groundwater Leachate Pretreatment

GWL-2 Monthly Inspections

(April, May and June, 2013)

GWL-2

Date: 4-12-13.
Time: 2.00p.
Inspected By: E. McLeRan.

MONTHLY O&M INSPECTION CHECKLIST
LECHEATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pumping Station #1 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #1 * See DP-1.	☐ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☐ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
2. Pump Station #1			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
3. Pumping Station #2 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #2	☑ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☑ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
4. Pump Station #2			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
5. Product Storage T-110 * See DP-1.			
A. Check Wiring	☐ Yes		☐ No
B. Check Tank Vent	☐ Yes		☐ No
C. Check Tank Level Transmitter Operation	☐ Yes		☐ No

PENNSYLVANIA AVENUE LANDFILL

GWL-2 **Monthly O&M Inspection**

Date: 4-12-18. **Inspected by:** E. McLean.

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Transfer Pumps P-201 and P-202 ✱			
A. Inspect External Connections			
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
B. Inspect Pump and Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
7. Transfer Pumps P-301 and P-302 ✱			
A. Inspect External Connections			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
8. Acid Feed Pump P-203			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-203	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
F. Inspect Acid Feed Tank and Pit	OK		

PENNSYLVANIA AVENUE LANDFILL

GWL-2 Monthly O&M Inspection

Date: 4-12-18. Inspected by: E. McLEAN.

INSPECTION AND MAINTENANCE TASKS	ACTION		
9. Pretreatment Building Sump Pump P-105			
A. Check Sump Pump Normal Operation	☑ Normal		☐ Abnormal
B. Clean Check Valve, Suction Flush Discharge	☑ Completed		☐ Incomplete
C. Check Pump Control Level Switches	☑ Normal		☐ Abnormal
D. Check Pump High Level Alarm	☑ Normal		☐ Abnormal
10. Sludge Pump P-205 *			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-204 (OWSP)	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
11. Carbon Absorption System			
A. Coordinate Carbon Supplier	☐ Yes		☐ No
B. Record and Monitor Carbon Removal and Replaced	☐ Yes		☐ No
C. Monitor Carbon Supplier Procedures	☐ Yes		☐ No
D. Inspect Level Transmitter LT-301	☐ Yes		☐ No
12. Motor Control Center			
A. Check Operation of all Circuit Breakers	☑ Yes		☐ No
B. Check Operation of all Electrical Controls	☑ Yes		☐ No
C. Check Operation of all Starters	☑ Yes		☐ No
D. Check and Replace Fuses, Lamps and Switches	☑ Yes		☐ No

- The groundwater leachate flow is being diverted away from the Oil Water Separator Tank, the Transfer Pump/Filter Station, the Carbon Absorbers and the discharge filter. Therefore, this equipment is currently off-line and only visual observations are recorded.

* MANUAL SHAFT ROTATIONS WERE PERFORMED.

Form DP-1

DESCRIPTION OF DEFICIENCIES AND PROBLEMS
LEACHATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
4-12-13.	Pump Station #1.	Valve Box Is Filled With Debris And Road Material From Hurricane 'Sandy'.	
4-12-13.	Product Storage T-110.	Tank Floated Off Base During Hurricane Sandy - All Electrical And Piping Connections Were Broken.	

Date: 4-12-13. Inspected by: E. McLean.

Signature

GWL-2

Date: 5-9-13
Time: 6:40 AM
Inspected By: EE McLean

MONTHLY O&M INSPECTION CHECKLIST
LECHEATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pumping Station #1 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #1	☐ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☐ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
2. Pump Station #1			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
3. Pumping Station #2 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #2	☑ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☑ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
4. Pump Station #2			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
5. Product Storage T-110			
A. Check Wiring	☐ Yes		☐ No
B. Check Tank Vent	☐ Yes		☐ No
C. Check Tank Level Transmitter Operation	☐ Yes		☐ No

PENNSYLVANIA AVENUE LANDFILL

GWL-2 Monthly O&M Inspection

Date: 5-9-13 Inspected by: EE McLean

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Transfer Pumps P-201 and P-202 *			
A. Inspect External Connections			
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
B. Inspect Pump and Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
7. Transfer Pumps P-301 and P-302 *			
A. Inspect External Connections			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
8. Acid Feed Pump P-203			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-203	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
F. Inspect Acid Feed Tank and Pit			

PENNSYLVANIA AVENUE LANDFILL

GWL-2 Monthly O&M Inspection

Date: 5-9-13 Inspected by: EE McLEAN

INSPECTION AND MAINTENANCE TASKS	ACTION		
9. Pretreatment Building Sump Pump P-105			
A. Check Sump Pump Normal Operation	☑ Normal		☐ Abnormal
B. Clean Check Valve, Suction Flush Discharge	☑ Completed		☐ Incomplete
C. Check Pump Control Level Switches	☑ Normal		☐ Abnormal
D. Check Pump High Level Alarm	☑ Normal		☐ Abnormal
10. Sludge Pump P-205 ✳			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-204 (OWSP)	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
11. Carbon Absorption System			
A. Coordinate Carbon Supplier	☐ Yes		☐ No
B. Record and Monitor Carbon Removal and Replaced	☐ Yes		☐ No
C. Monitor Carbon Supplier Procedures	☐ Yes		☐ No
D. Inspect Level Transmitter LT-301	☐ Yes		☐ No
12. Motor Control Center			
A. Check Operation of all Circuit Breakers	☑ Yes		☐ No
B. Check Operation of all Electrical Controls	☑ Yes		☐ No
C. Check Operation of all Starters	☑ Yes		☐ No
D. Check and Replace Fuses, Lamps and Switches	☑ Yes		☐ No

- The groundwater leachate flow is being diverted away from the Oil Water Separator Tank, the Transfer Pump/Filter Station, the Carbon Absorbers and the discharge filter. Therefore, this equipment is currently off-line and only visual observations are recorded.

✳ MANUAL SHAFT ROTATIONS PROFORMED ON PUMPS.

Form DP-1

DESCRIPTION OF DEFICIENCIES AND PROBLEMS
LEACHATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
5-9-13	PUMP STATION #1	VALVE BOX IS FILLED WITH DEBRIS & ROAD MATERIAL FROM HURRICANE SANDY.	
5-9-13	PRODUCT STORAGE T-110	TANK FLOATED OF BASE DURING SANDY.	

Date: 5-9-13 Inspected by: EE McLEAN

Signature

GWL-2

Date: 6-10-13
Time: 1:00 PM
Inspected By: E.E. McLean

MONTHLY O&M INSPECTION CHECKLIST
LECHEATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

INSPECTION AND MAINTENANCE TASKS	ACTION		
1. Pumping Station #1 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #1 *	☐ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☐ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
2. Pump Station #1			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
3. Pumping Station #2 Manholes			
A. Alignment of Manhole and Valve Chamber Manhole	☑ Normal		☐ Misalign
B. Exercise all Valves at Pump Station #2	☑ Normal Operation		☐ Abnormal Operation
C. Valve Box Inspection	☑ Normal		☐ Leaks
D. Manhole Leachate Level	☑ Normal	☐ High	☐ Low
4. Pump Station #2			
A. External Wiring Checked	☑ Yes		☐ No
B. Alignment of Force Main Discharge	☑ Normal		☐ Abnormal
C. Check Local Control Indicators and Switches	☑ Yes		☐ No
D. Rate of Fall of Leachate In Manhole	☑ Normal		☐ Abnormal
E. Check Main Control Panel Pump Operation	☑ Yes		☐ No
F. Pump Motor	☐ High Temp	☐ Seal Fail	☐ Fault
5. Product Storage T-110 *			
A. Check Wiring	☐ Yes		☐ No
B. Check Tank Vent	☐ Yes		☐ No
C. Check Tank Level Transmitter Operation	☐ Yes		☐ No

PENNSYLVANIA AVENUE LANDFILL

GWL-2 Monthly O&M Inspection

Date: 6-10-13 **Inspected by:** S.E. McLEAN

INSPECTION AND MAINTENANCE TASKS	ACTION		
6. Transfer Pumps P-201 and P-202 ✱			
A. Inspect External Connections			
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
B. Inspect Pump and Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-201	☑ Normal		☐ Abnormal
Pump P-202	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-201	☐ Normal		☐ Abnormal
Pump P-202	☐ Normal		☐ Abnormal
7. Transfer Pumps P-301 and P-302 ✱			
A. Inspect External Connections			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches			
Pump P-301	☑ Normal		☐ Abnormal
Pump P-302	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation			
Pump P-301	☐ Normal		☐ Abnormal
Pump P-302	☐ Normal		☐ Abnormal
8. Acid Feed Pump P-203			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-203	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
F. Inspect Acid Feed Tank and Pit			

PENNSYLVANIA AVENUE LANDFILL

GWL-2 **Monthly O&M Inspection**

Date: 6-10-13 **Inspected by:** E.E. McLEAN

INSPECTION AND MAINTENANCE TASKS	ACTION		
9. Pretreatment Building Sump Pump P-105			
A. Check Sump Pump Normal Operation	☑ Normal		☐ Abnormal
B. Clean Check Valve, Suction Flush Discharge	☑ Completed		☐ Incomplete
C. Check Pump Control Level Switches	☑ Normal		☐ Abnormal
D. Check Pump High Level Alarm	☑ Normal		☐ Abnormal
10. Sludge Pump P-205 *			
A. Inspect External Connections	☑ Normal		☐ Abnormal
B. Inspect Pump & Motor Assembly for Potential Problems	☑ Completed		☐ Incomplete
Pump P-204 (OWSP)	☑ Normal		☐ Abnormal
C. Check Indicating Lamps and Switches	☑ Normal		☐ Abnormal
D. Check Pump Normal/Automatic Operation	☐ Normal		☐ Abnormal
E. Check Pump Manual Operation	☐ Normal		☐ Abnormal
11. Carbon Absorption System			
A. Coordinate Carbon Supplier	☐ Yes		☐ No
B. Record and Monitor Carbon Removal and Replaced	☐ Yes		☐ No
C. Monitor Carbon Supplier Procedures	☐ Yes		☐ No
D. Inspect Level Transmitter LT-301	☐ Yes		☐ No
12. Motor Control Center			
A. Check Operation of all Circuit Breakers	☑ Yes		☐ No
B. Check Operation of all Electrical Controls	☑ Yes		☐ No
C. Check Operation of all Starters	☑ Yes		☐ No
D. Check and Replace Fuses, Lamps and Switches	☑ Yes		☐ No

- The groundwater leachate flow is being diverted away from the Oil Water Separator Tank, the Transfer Pump/Filter Station, the Carbon Absorbers and the discharge filter. Therefore, this equipment is currently off-line and only visual observations are recorded.

* MANUAL SHAFT ROTATIONS WERE PREFORMED.

Form DP-1

DESCRIPTION OF DEFICIENCIES AND PROBLEMS
LEACHATE PRETREATMENT SYSTEM
FRESH CREEK BASIN REMEDIATION
PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
6-10-13	PUMP STATION #1	VALVE BOX IS FILLED WITH DEBRIS AND ROAD MATERIAL FROM HURRICANE 'SANDY'.	
6-10-13	PRODUCT STORAGE T-110	TANK FLOATED OF BASE DURING SANDY - ALL CONNECTIONS WERE BROKEN.	

Date: 6-10-13 **Inspected by:** E.E. McLEAN

Signature E.E. McLean

Groundwater Leachate Pretreatment

GWL-3 Quarterly Inspection

GWL-3
Quarterly

Date: 6-13-13
Time: 10:00AM
Inspected By: EE McLEAN

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

INSPECTION AND MAINTENANCE TASKS	ACTION	
1. Pump Stations #1 and # 2		
A. Check and Reset Instrumentation Sensors		
Pump Station #1	☑ Yes	☐ No
Pump Station #2	☑ Yes	☐ No
2. Transfer Pumps P-201 and P-202		
A. Check Level Controls		
Pumps P-201 and P-202	☑ Completed	☐ Incomplete
B. Clean and Check Switches		
Pumps P-201 and P-202	☑ Completed	☐ Incomplete
3. Transfer Pumps P-301 and P-302		
A. Check Level Controls		
Pumps P-301 and P-302	☑ Completed	☐ Incomplete
B. Clean and Check Switches		
Pumps P-301 and P-302	☑ Completed	☐ Incomplete
4. Acid Feed Pump P-203		
A. Clean and Check Switches		
Pump P-203	☑ Completed	☐ Incomplete
5. OWS Pump P-204		
A. Clean and Check Switches		
	☑ Completed	☐ Incomplete
6. Sludge Pump P-205		
A. Clean and Check Switches		
Pump P-205	☑ Completed	☐ Incomplete

Groundwater Leachate Pretreatment

GWL-4 Semi-Annual Inspection

GWL-4

EVERY 6 MONTHS

Date: 6-13-13

Time: 10:00 AM

Inspected By: EE McLean

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

INSPECTION AND MAINTENANCE TASKS	ACTION	
1. Pump Stations #1 (P.S. #1) Manholes		
A. Exercise and Lubricate Valves – P. S. #1	☐ Yes	☑ No
B. Exercise Discharge and Check Valves – P. S. #1	☐ Yes	☑ No
C. Inspect Valves for Wear and Adjust - P. S. #1	☐ Yes	☑ No
D. Lubricate/Adjust Manhole and Control Cabinet Hardware	☑ Yes	☐ No
2. Pump Stations #2 (P.S. #2) Manholes		
A. Exercise and Lubricate Valves – P. S. #2	☑ Yes	☐ No
B. Exercise Discharge and Check Valves – P. S. #2	☑ Yes	☐ No
C. Inspect Valves for Wear and Adjust - P. S. #2	☑ Yes	☐ No
D. Lubricate/Adjust Manhole and Control Cabinet Hardware	☑ Yes	☐ No
3. Interceptor Trench		
A. Flow from Trench into Manhole at P.S. #1	_____ Time Required	
B. Flow from Trench into Manhole at P.S. #2	_____ Time Required	
4. Pumping Station #1		
A. Exercise and Lubricate Valves – P. S. #1	☐ Yes	☑ No
B. Inspect Pump Lifting Device and Cables – P.S. #1	☑ Yes	☐ No
C. Pull Pump Station Pump & Inspect Pump & Motor – P.S. #1	☑ Yes	☐ No
D. Measure Pump Station Pump Motor Resistance – P.S. #1	_____ Ohms	
E. Check Pump Oil Level and Condition – P.S. #1 Oil Level: _____ Oil Condition: _____		
F. Check Pump Seal Monitoring System Operation – P.S. #1	☐ Normal	☐ Abnormal
5. Pumping Station #2		
A. Exercise and Lubricate Valves – P. S. #2	☑ Yes	☐ No
B. Inspect Pump Lifting Device and Cables – P.S. #2	☑ Yes	☐ No
C. Pull Pump Station Pump & Inspect Pump & Motor – P.S. #2	☑ Yes	☐ No
D. Measure Pump Station Pump Motor Resistance – P.S. #2	_____ Ohms	
F. Check Pump Oil Level and Condition – P.S. #2 Oil Level: _____ Oil Condition: _____		
F. Check Pump Seal Monitoring System Operation – P.S. #2	☐ Normal	☐ Abnormal

LECHEATE SYSTEM O&M INSPECTION CHECKLIST
PENNSYLVANIA AVENUE LANDFILL

GWL - 4 **Date:** 6-13-13 **Inspected by:** EE/McLEAN

6. Pretreatment Building Sump Pump P-105		
A. Exercise Discharge Valves and Check Valve	☑ Normal	☐ Abnormal
7. Transfer Pump P-201		
A. Pull Pump and Inspect Pump P-201	☐ Completed	☐ Incomplete
8. Transfer Pump P-202		
A. Pull Pump and Inspect Pump P-202	☐ Completed	☐ Incomplete
9. Effluent Discharge Pump P-301		
A. Pull Pump and Inspect Pump P-301	☐ Completed	☐ Incomplete
10. Effluent Discharge Pump P-302		
A. Pull Pump and Inspect Pump P-302	☐ Completed	☐ Incomplete
11. Acid Feed Pump P-203		
A. Pull Pump and Inspect Pump P-203	☐ Completed	☐ Incomplete
12. Sludge Pump P-205		
A. Pull Pump and Inspect Pump P-205	☐ Completed	☐ Incomplete
13. Carbon Absorption System		
A. Test DPT-301 and T-301 Alarms and Shutdowns	☐ Yes	☐ No
B. Inspect Pressure Gauges	☐ Yes	☐ No
C. Exercise and Lubricate All Valves	☑ Yes	☐ No

Comments: SYSTEM DIVERTED. PUMPS ARE VISUALLY INSPECTED AND SHAFTS ROTATED.

PUMP STATION NO. 1 HIT BY SURGE DURING HURRICANE SANDY. STATION OUT OF SERVICE.

PUMP STATION NO. 2 IS MAINTAINING THE WATER LEVELS.

Appendix B – M-1 Self Monitoring Report and Analyses

Industrial Wastewater Discharge Permit No. 11-P3145-1

STRATIS
CONTRACTING CORP.
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July 25, 2013

Frances Leung, P.E., Chief
IPP Inspection and Permit Section
Bureau of Wastewater Treatment
New York City Department of Environmental Protection
96-05 Horace Harding Expressway
Corona, New York 11368

Re: New York City Department of Environmental Protection
Fresh Creek Basin Remediation
Pennsylvania Avenue Landfill

Dear Ms. Leung,

Enclosed is the April through June, 2013 (Second Quarter) Self Monitoring Report for the NYCDEP Pennsylvania Avenue Landfill Leachate Treatment Plant. The report consists of the quarterly self monitoring report form, the April, May and June, 2013 monthly flow reports, the summary of the analytical data, April, May and June, 2013 chain of custody and laboratory reports from EcoTest Laboratories, a division of H2M Labs, Inc.

The operation continues on plant diversion mode. There were no exceedances of any permit parameters during this second quarter of 2013.

If you have any questions, please feel free to contact me at (718) 348-9076 or (914) 980-7661.

Sincerely,

Mildred Olson Gonos
Project Manager

cc: R. Raha, NYCDEP BWT
T. Heneveld, LKB
P. Jeris, Stratis

INDUSTRIAL USER SELF MONITORING REPORT

1	♦ Establishment Information ♦					
A	Name:	**New York City Department of Environmental Protection, Fresh Creek Basin Remediation, Pennsylvania Avenue Landfill**				
B	Address:	**1750 Pennsylvania Avenue, Brooklyn, New York 11239**				
C	Industrial Category:	**Miscellaneous Landfill**				
D	Contact Official:	**Rupak Raha**				
F	Reporting Period			G	Date Sampled	
	Start	End			Start	End
	1-Apr-13	**30-Jun-13**			**3-Apr-13**	**7-Jun-13**

Note: If the only wastewater discharges by your establishment into the public sewer system are sanitary or non contact cooling water, do not address items in Tables 2, 3, 4, 5 and 6. In this case check [ ] here and proceed directly to Table 7.

2	♦ Flow Information ♦		
		Average	Peak
A	Plant Flow, gal/day	**25,202**	**29,930**
B	Regulated Flow, gal/day	**25,202**	**29,623**
C	Method of Flow Measurement	**Flow Meter / Electronic PCS**	

3	♦ Sample Collection Information ♦	
A	Sampling Location	**M1 - Leachate Treatment Plant Effluent**
B	Sampling Procedures	**4 grab samples taken at least one hour apart, and a 24 hour composite using an automatic sampler are collected once per month**
C	Preservatives Used	**See attached Chain of Custody Records**

4	This establishment's wastewater discharge DOES [ ] / DOES NOT [**X**] exceed nationwide categorical standard(s) or 15 RCNY 19-04 (a).

5	♦ Production Rate ♦
If Applicable, provide production rate: **N/A**	

6	♦ Ph Monitoring ♦								
(Four Samples Per Day - One Hour Apart - Once a Month)									
Date:	**3-Apr-13**			**6-May-13**			**6-Jun-13**		
	Time	pH In-situ	pH Lab	Time	pH In-situ	pH Lab	Time	pH In-situ	pH Lab
	9:00	**6.78**	**7.3**	**9:00**	**6.79**	**6.9**	**9:00**	**6.78**	**6.9**
	11:00	**6.92**	**7.2**	**11:00**	**6.75**	**6.9**	**11:00**	**6.92**	**6.9**
	13:00	**6.84**	**7.2**	**13:00**	**6.78**	**6.9**	**13:00**	**6.84**	**6.9**
	14:30	**6.85**	**7.1**	**14:30**	**6.91**	**6.9**	**14:30**	**6.85**	**6.9**

7	♦ HAZARDOUS WASTES GENERATION ♦	
This establishment DID [ ] / DID NOT [**X**] generate any hazardous wastes, during this reporting period. If hazardous wastes were generated,		
A	Type of Waste	
B	Amount Generated (in kilograms)	
C	Method of Disposal	

8	♦ CERTIFICATION ♦
A.	NON-CONTAMINATED WASTEWATER DISCHARGE CERTIFICATION: I hereby certify, that during this reporting period, this facility has not discharged any industrial wastewater, chemicals, cleaners or like substances generated from or in relation to any of this establishment's operations other than sanitary or non-contact cooling water. I understand that I must obtain prior written approval from the IPP Inspection and Permit Section before I can discharge any such wastewater. I am aware that there are significant civil and criminal sanctions for submitting false information.
	Name (Print) Signature
	Title Date Phone Number

8	♦ CERTIFICATION (CONTINUED) ♦

B. TOXIC ORGANICS CERTIFICATION:

I. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, no Toxic Organics are used or stored at my facility. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Mildred Olson Gonos	Mildred O Gonos	
Name (Print)		Signature
Project Manager	7/25/2013	(718) 642-2163
Title	Date	Phone Number

OR

II. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to a public sewer of toxic organics during the past six months. I also certify that explanations provided concerning the disposal of toxic organics from the facility are true , accurate and complete. I further certify that this facility is implementing a toxic organics management plan to protect against the release of such compounds to a public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (Print)		Signature
Title	Date	Phone Number

C AUTHORIZED FIRM REPRESENTATIVE CERTIFICATION:

I hereby certify, under penalty of law, that I have personally examined and am familiar with the information contained in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the reported sampling results are representative of the facility's normal work cycles and expected pollutant discharges.

Mildred Olson Gonos	Mildred O Gonos	
Name (Print)		Signature
Project Manager	7/25/2013	(718) 642-2163
Title	Date	Phone Number

Please sign the following certification if required by the Permit/Directive:

D. CYANIDE CERTIFICATION:

a. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, cyanide is not used or stored at my facility or generated in any of our manufacturing processes and there was no discharge of cyanide to the public sewer. I certify that I am duly authorized by the establishment to make this statement on its behalf, and I am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Mildred Olson Gonos	Mildred Olson Gonos	
Name (Print)		Signature
Project Manager	7/25/2013	(718) 642-2163
Title	Date	Phone Number

OR

b. "Based upon my inquiry of the person or persons directly responsible for managing environmental affairs at my facility, I certify that, to the best of my knowledge and belief, there was no discharge to the public sewer of cyanide-bearing waste during the last six months. I also certify that the explanations provided concerning the disposal of cyanide-bearing waste from the facility are true, accurate and complete. I certify that I am duly authorized by the establishment to make this statement on its behalf, and I am fully aware that there are significant civil and criminal sanctions for submitting false information, including the possibility of a fine and/or imprisonment."

Name (Print)		Signature
Title	Date	Phone Number

If certification b. (above) is signed and submitted, explanations concerning the disposal of cyanide-bearing waste from the facility shall be provided.

9	♦ DESCRIPTION OF OPERATION ♦
The landfill leachate pretreatment system is currently operating in plant diversion mode via piping that was installed to circumvent the existing treatment process. This mode of operation is appropriate since historic plant influent data has indicated that the influent from the site's interceptor trench meets the Bureau requirements for discharge to the 26th Ward WWTP without treatment. This mode of operation was approved by both the NYSDEC and the NYCDEP BWT IPP Inspection and Permit Section.	

10	♦ ATTACHMENTS ♦	Yes	No	N/A
A	All laboratory analyses must be conducted by a New York State Health Department certified wastewater laboratory. The results must be certified by the laboratory and submitted on the laboratory's letterhead. For each sample, the laboratory report must indicate the date of sampling, time sample was taken, sample location, sampling preservation procedures, analytical techniques used, date of analysis, units of measurement, and the laboratories sample identification; where the analytical result reported is below the method detection level, the laboratory report must also indicate the method detection level.	**X**		
B	Chain of custody for all samples.	**X**		
C	Explanation of non-compliance and what will be done to rectify it. A compliance schedule is to be included.			**X**
D	Amount of spent solvents generated and method of disposal. Explanation of zero discharges to be included.			**X**
E	Description of any major modifications or malfunctions in manufacturing or pretreatment operations.			**X**
F	Hazardous wastes manifests.			**X**

Groundwater Leachate Pretreatment

Flow Reports

(April, May and June, 2013)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH: **April 2013**

	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
1	7:17 AM	9,465,590	**25,310**	24	
2	7:51 AM	9,468,121	**23,650**	24	
3	7:40 AM	9,470,486	**18,580**	24	
4	7:40 AM	9,472,344	**25,300**	24	
5	7:10 AM	9,474,874	**23,087**	24	1
6			**23,087**	24	1
7			**23,087**	24	1
8	7:54 AM	9,481,800	**22,190**	24	
9	7:22 AM	9,484,019	**22,370**	24	
10	7:10 AM	9,486,256	**23,230**	24	
11	7:50 AM	9,488,579	**22,110**	24	
12	7:16 AM	9,490,790	**24,223**	24	1
13			**24,223**	24	1
14			**24,223**	24	1
15	7:51 AM	9,498,057	**23,400**	24	
16	7:29 AM	9,500,397	**24,400**	24	
17	8:29 AM	9,502,837	**21,950**	24	
18	7:30 AM	9,505,032	**23,040**	24	
19	7:42 AM	9,507,336	**22,250**	24	1
20			**22,250**	24	1
21			**22,250**	24	1
22	7:13 AM	9,514,011	**22,230**	24	
23	7:31 AM	9,516,234	**22,980**	24	
24	7:50 AM	9,518,532	**22,340**	24	
25	7:07 AM	9,520,766	**23,010**	24	
26	7:46 AM	9,523,067	**22,230**	24	1
27			**22,230**	24	1
28			**22,230**	24	1
29	7:26 AM	9,529,736	**22,080**	24	
30	7:07 AM	9,531,944	**22,200**	24	
1-May	7:15 AM	9,534,164			

No. of Days in Operation
30.0

Total Flow (gallons)
685,740

Average Daily Flow (gallons)
22,858

Maximum Daily Flow (gallons)
25,310

(1) Estimated flow for weekends and holidays (readings not taken)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH:	MAY 2013				
	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
1	7:15 AM	9,534,164	**22,310**	24	
2	7:44 AM	9,536,395	**21,620**	24	
3	7:45 AM	9,538,557	**21,753**	24	(1)
4			**21,753**	24	(1)
5			**21,753**	24	(1)
6	8:06 AM	9,545,083	**20,020**	24	
7	7:20 AM	9,547,085	**22,440**	24	
8	7:38 AM	9,549,329	**26,160**	24	
9	7:40 AM	9,551,945	**26,920**	24	
10	7:22 AM	9,554,637	**27,793**	24	(1)
11			**27,793**	24	(1)
12			**27,793**	24	(1)
13	7:25 AM	9,562,975	**26,950**	24	
14	7:55 AM	9,565,670	**24,910**	24	
15	7:40 AM	9,568,161	**24,640**	24	
16	7:27 AM	9,570,625	**24,190**	24	
17	7:37 AM	9,573,044	**22,727**	24	(1)
18			**22,727**	24	(1)
19			**22,727**	24	(1)
20	7:33 AM	9,579,862	**22,860**	24	
21	7:45 AM	9,582,148	**22,400**	24	
22	7:27 AM	9,584,388	**23,330**	24	
23	7:55 AM	9,586,721	**22,550**	24	
24	7:19 AM	9,588,976	**22,835**	24	(1)
25			**22,835**	24	(1)
26			**22,835**	24	(1)
27	**Holiday**		**22,835**	24	(1)
28	7:40 AM	9,598,110	**22,070**	24	
29	7:00 AM	9,600,317	**23,360**	24	
30	7:45 AM	9,602,653	**23,060**	24	
31	8:20 AM	9,604,959	**22,207**	24	
3-Jun	8:06 AM	9,611,621			

No. of Days in Operation
31

Total Flow (gallons)
730,157

Average Daily Flow (gallons)
23,553

Maximum Daily Flow (gallons)
27,793

(1) Estimated flow for weekends and holidays (readings not taken)

PENNSYLVANIA AVENUE LANDFILL
LEACHATE PRETREATMENT PLANT EFFLUENT
TO 26TH WARD W.W.T.P.

MONTH: JUNE 2013

	Time of Reading	10 Gallon Counter Readings	Flow (gallons)	Hours On-Line	
31-May	8:20 AM	9,604,959			
1			**22,207**	24	1
2			**22,207**	24	1
3	8:06 AM	9,611,621	**21,740**	24	
4	7:50 AM	9,613,795	**20,880**	24	
5	7:16 AM	9,615,883	**22,260**	24	
6	8:20 AM	9,618,109	**20,700**	24	
7	7:25 AM	9,620,179	**28,617**	24	1
8			**28,617**	24	1
9			**28,617**	24	1
10	7:20 AM	9,628,764	**29,320**	24	
11	7:15 AM	9,631,696	**29,930**	24	
12	7:15 AM	9,634,689	**29,480**	24	
13	7:34 AM	9,637,637	**29,070**	24	
14	7:45 AM	9,640,544	**27,713**	24	1
15			**27,713**	24	1
16			**27,713**	24	1
17	7:38 AM	9,648,858	**22,390**	24	
18	7:20 AM	9,651,097	**25,080**	24	
19	7:07 AM	9,653,605	**27,020**	24	
20	7:33 AM	9,656,307	**26,220**	24	
21	7:15 AM	9,658,929	**26,273**	24	1
22			**26,273**	24	1
23			**26,273**	24	1
24	6:44 AM	9,666,811	**26,910**	24	
25	7:14 AM	9,669,502	**27,110**	24	
26	8:00 AM	9,672,213	**25,650**	24	
27	7:35 AM	9,674,778	**26,000**	24	
28	7:50 AM	9,677,378	**26,077**	24	1
29			**26,077**	24	1
30			**26,077**	24	1
1-Jul	9:00 AM	9,685,201			

No. of Days in Operation
30

Total Flow (gallons)
780,213

Average Daily Flow (gallons)
26,007

Maximum Daily Flow (gallons)
29,930

(1) Estimated flow for weekends and holidays (readings not taken)

PENNSYLVANIA AVENUE LANDFILL

Leachate Treatment Flow Summary

Max Permit Flow (GPD): 43,000

	Apr-13	May-13	Jun-13
Average Flow (GPD)	22,858	23,553	26,007
Maximum Flow (GPD)	25,310	27,793	29,930

Second Quarter 2013 Summary

Average Flow (GPD)	**24,133**
Maximum Flow (GPD)	**29,930**
Average GPM:	**16.8**

Leachate Treatment Building Methane (% by Volume)

	3-Apr	6-May	6-Jun	
Inside Building	0.0	0.0	0.0	

Groundwater Leachate Pretreatment
Laboratory Analysis Summary

Pennsylvania Avenue Landfill
April through June 2013 - M1 Lab Data Summary

Analyte	Units	Permit			04/03/13	05/06/13	06/06/13
		Max. Conc.	Daily Limit	Monthly Limit	M-1 Results	M-1 Results	M-1 Results
Cadmium	µg/L	2000	690		<5.00	<5.00	<5.00
Chromium	mg/L				0.01	0.01	<0.01
Chromium, Hexavalent	mg/L	5.0			<0.02	<0.02	0.07
Copper	mg/L	5.0			<0.02	<0.02	<0.02
Lead	ug/L	2000			10	8.32	12.7
Mercury	ug/L	50			<0.2	<0.2	<0.2
Molybdenum	mg/L				<0.05	0.05	<0.05
Nickel	mg/L	3.0			<0.04	0.04	<0.04
Silver	mg/L				<0.01	<0.01	<0.01
Zinc	mg/L	5.0			<0.02	<0.02	<0.02
Carbonaceous Biological Oxygen Demand	mg/L				4	<4	33
Chloride	mg/L				2460 D	3160 D	<0.10
Cyanide	µg/L	200			<10	<10	<10
Cyanide, Amenable to Chlorination	µg/L				<1.0	<1.0	<1.0
Nitrate as N	mg/L				0.61	0.11	70.8 D
Nitrite as N	mg/L				<0.10	<0.10	<4
Nitrogen, Kjeldahl, Total	mg/L				64.1 D	70.7 D	71
Nitrogen, Total	mg/L				64.7	70.8	0.17
Hexane Extractable Material (O&G)	mg/L	50.0			<5.0	<5.0	<5.0
Hexane Extractable Material (O&G)	mg/L	↓			<5.0	<5.0	<5.0
Hexane Extractable Material (O&G)	mg/L	↓			<5.0	<5.0	<5.0
Hexane Extractable Material (O&G)	mg/L	↓			<5.0	<5.0	<5.0
Suspended Solids (Residue, Non-Filterable)	mg/L	350			14	<10	<10
Suspended Solids (Residue, Non-Filterable)	mg/L	↓			<10	<10	11
Suspended Solids (Residue, Non-Filterable)	mg/L	↓			<10	<10	<10
Suspended Solids (Residue, Non-Filterable)	mg/L	↓			<10	<10	11
pH							
pH Grab 1 (Field/Lab)	SU	5.0 - 11.0			6.78 / 7.3	6.79 / 6.9	6.78 / 6.9
pH Grab 2 (Field/Lab)	SU	Standard Units			6.92 / 7.2	6.75 / 6.9	6.92 / 6.9
pH Grab 3 (Field/Lab)	SU				6.84 / 7.2	6.78 / 6.9	6.84 / 6.9
pH Grab 4 (Field/Lab)	SU				6.85 / 7.1	6.91 / 6.9	6.85 / 6.9
PCBs		1 (Total PCBs)					
Aroclor 1016	µg/L				<0.065	<0.065	<0.065
Aroclor 1221	µg/L				<0.065	<0.065	<0.065
Aroclor 1232	µg/L				<0.065	<0.065	<0.065
Aroclor 1242	µg/L				<0.065	<0.065	<0.065
Aroclor 1248	µg/L				<0.065	<0.065	<0.065
Aroclor 1254	µg/L				<0.065	<0.065	<0.065
Aroclor 1260	µg/L				<0.065	<0.065	<0.065

Pennsylvania Avenue Landfill
April through June 2013 - M1 Lab Data Summary

Analyte	Units	Permit			04/03/13	05/06/13	06/06/13
		Max. Conc.	Daily Limit	Monthly Limit	M-1 Results	M-1 Results	M-1 Results
VOCs							
1,1,1-Trichloroethane	µg/L				<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	µg/L				<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L				<1.0	<1.0	<1.0
1,1-Dichloroethane	µg/L				<1.0	<1.0	<1.0
1,1-Dichloroethene	µg/L				<1.0	<1.0	<1.0
1,2-Dichlorobenzene	µg/L				2.5	1.8	2.4
1,2-Dichloroethane	µg/L				<1.0	<1.0	<1.0
1,2-Dichloroethene (total)	µg/L				<1.0	<1.0	<1.0
1,2-Dichloropropane	µg/L				<1.0	<1.0	<1.0
1,3-Dichlorobenzene	µg/L				1	<1.0	<1.0
1,4-Dichlorobenzene	µg/L				3.7	2.7	3.6
2-Butanone	µg/L				<5.0	<5.0	<5.0
2-Hexanone	µg/L				<5.0	<5.0	<5.0
4-Methyl-2-pentanone	µg/L				<5.0	<5.0	<5.0
Acetone	µg/L				5.1	11	10
Benzene	µg/L		134	57	2.5	2	2.7
Bromodichloromethane	µg/L				<1.0	<1.0	<1.0
Bromoform	µg/L				<1.0	<1.0	<1.0
Bromomethane	µg/L				<1.0	<1.0	<1.0
Carbon disulfide	µg/L				<1.0	<1.0	<1.0
Carbon tetrachloride	µg/L				<1.0	<1.0	<1.0
Chlorobenzene	µg/L				28	22	28
Chloroethane	µg/L				<1.0	<1.0	<1.0
Chloroform	µg/L				<1.0	<1.0	<1.0
Chloromethane	µg/L				<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	µg/L				<1.0	<1.0	<1.0
Dibromochloromethane	µg/L				<1.0	<1.0	<1.0
Ethylbenzene	µg/L		380	142	<1.0	<1.0	<1.0
m,p-Xylene	µg/L				<1.0	<1.0	<1.0
Methyl tert-butyl ether	µg/L	50			<1.0	<1.0	<1.0
Methylene chloride	µg/L				<1.0	<1.0	<1.0
o-Xylene	µg/L				<1.0	<1.0	<1.0
Styrene	µg/L				<1.0	<1.0	<1.0
Tetrachloroethene	µg/L	20			<1.0	<1.0	<1.0
Toluene	µg/L		74	28	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	µg/L				<1.0	<1.0	<1.0
Trichloroethene	µg/L				<1.0	<1.0	<1.0
Vinyl chloride	µg/L				<1.0	<1.0	<1.0
Xylene (total)	µg/L		74	28	<1.0	<1.0	<1.0

Pennsylvania Avenue Landfill
April through June 2013 - M1 Lab Data Summary

Analyte	Units	Permit			04/03/13	05/06/13	06/06/13
		Max. Conc.	Daily Limit	Monthly Limit	M-1 Results	M-1 Results	M-1 Results
SVOs							
1,2,4-Trichlorobenzene	µg/L				<1.0	<1.0	<1.0
2,2´-oxybis(1-Chloropropane)	µg/L				<1.0	<1.0	<1.0
2,4,5-Trichlorophenol	µg/L				<1.0	<1.0	<1.0
2,4,6-Trichlorophenol	µg/L				<1.0	<1.0	<1.0
2,4-Dichlorophenol	µg/L				<1.0	<1.0	<1.0
2,4-Dimethylphenol	µg/L				<1.0	<1.0	<1.0
2,4-Dinitrophenol	µg/L				<10	<10	<10
2,4-Dinitrotoluene	µg/L				<1.0	<1.0	<1.0
2,6-Dinitrotoluene	µg/L				<1.0	<1.0	<1.0
2-Chloronaphthalene	µg/L				<1.0	<1.0	<1.0
2-Chlorophenol	µg/L				<1.0	<1.0	<1.0
2-Methylnaphthalene	µg/L				<1.0	<1.0	<1.0
2-Methylphenol	µg/L				<1.0	<1.0	<1.0
2-Nitroaniline	µg/L				<1.0	<1.0	<1.0
2-Nitrophenol	µg/L				<1.0	<1.0	<1.0
3,3´-Dichlorobenzidine	µg/L				<10	<10	<10
3/4-Methylphenol	µg/L				<1.0	<1.0	<1.0
3-Nitroaniline	µg/L				<1.0	<1.0	<1.0
4,6-Dinitro-2-methylphenol	µg/L				<10	<10	<10
4-Bromophenyl-phenylether	µg/L				<1.0	<1.0	<1.0
4-Chloro-3-methylphenol	µg/L				<1.0	<1.0	<1.0
4-Chloroaniline	µg/L				<1.0	<1.0	<1.0
4-Chlorophenyl-phenylether	µg/L				<1.0	<1.0	<1.0
4-Nitroaniline	µg/L				<1.0	<1.0	<1.0
4-Nitrophenol	µg/L				<10	<10	<10
Acenaphthene	µg/L				<1.0	<1.0	<1.0
Acenaphthylene	µg/L				<1.0	<1.0	<1.0
Anthracene	µg/L				<1.0	<1.0	<1.0
Benzo(a)anthracene	µg/L				<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L				<1.0	<1.0	<1.0
Benzo(b)fluoranthene	µg/L				<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	µg/L				<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L				<1.0	<1.0	<1.0
Bis(2-chloroethoxy)methane	µg/L				<1.0	<1.0	<1.0
Bis(2-chloroethyl)ether	µg/L				<1.0	<1.0	<1.0
Bis(2-ethylhexyl)phthalate	µg/L				<1.0	<1.0	<1.0
Butyl benzyl phthalate	µg/L				<1.0	<1.0	<1.0
Carbazole	µg/L				<1.0	<1.0	<1.0
Chrysene	µg/L				<1.0	<1.0	<1.0

Pennsylvania Avenue Landfill

April through June 2013 - M1 Lab Data Summary

Analyte	Units	Permit			04/03/13	05/06/13	06/06/13
		Max. Conc.	Daily Limit	Monthly Limit	M-1 Results	M-1 Results	M-1 Results
SVOs (Cont…)							
Dibenzo(a,h)anthracene	µg/L				<1.0	<1.0	<1.0
Dibenzofuran	µg/L				<1.0	<1.0	<1.0
Diethylphthalate	µg/L				<1.0	<1.0	<1.0
Dimethylphthalate	µg/L				<1.0	<1.0	<1.0
Di-n-butyl phthalate	µg/L				<1.0	<1.0	<1.0
Di-n-octyl phthalate	µg/L				<1.0	<1.0	<1.0
Fluoranthene	µg/L				<1.0	<1.0	<1.0
Fluorene	µg/L				<1.0	<1.0	<1.0
Hexachlorobenzene	µg/L				<1.0	<1.0	<1.0
Hexachlorobutadiene	µg/L				<1.0	<1.0	<1.0
Hexachlorocyclopentadiene	µg/L				<10	<10	<10
Hexachloroethane	µg/L				<1.0	<1.0	<1.0
Indeno(1,2,3-cd)pyrene	µg/L				<1.0	<1.0	<1.0
Isophorone	µg/L				<1.0	<1.0	<1.0
Naphthalene	µg/L		47	19	<1.0	<1.0	<1.0
Nitrobenzene	µg/L				<1.0	<1.0	<1.0
N-Nitroso-di-n-propylamine	µg/L				<1.0	<1.0	<1.0
N-Nitrosodiphenylamine	µg/L				5.8	5.7	5.1
Pentachlorophenol	µg/L				<10	<10	<10
Phenanthrene	µg/L				<1.0	<1.0	<1.0
Phenol	µg/L				<1.0	<1.0	<1.0
Pyrene	µg/L				<1.0	<1.0	<1.0
Qualifier D = Result for dilution							

Groundwater Leachate Pretreatment

M1 Effluent Analysis Laboratory Reports and Chain of Custody Records

(April, May and June, 2013)

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/4/2013 7:30:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 4/11/2013 12:00:00 PM Analyst: Aba

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cadmium	< 5.00		1	ug/L	04/12/2013 1:45 PM	Container-01 of 01
Chromium	0.01		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01
Copper	< 0.02		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01
Lead	10.0		1	ug/L	04/12/2013 1:45 PM	Container-01 of 01
Molybdenum	< 0.05		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01
Nickel	< 0.04		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01
Silver	< 0.01		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01
Zinc	< 0.02		1	mg/L	04/12/2013 1:45 PM	Container-01 of 01

Analytical Method: E608 : Prep Method: E608 Prep Date: 4/8/2013 1:25:27 PM Analyst: KB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Aroclor 1016	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1221	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1232	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1242	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1248	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1254	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Aroclor 1260	< 0.065		1	µg/L			04/08/2013 8:18 PM	Container-03 of 04
Surr: Decachlorobiphenyl	72.8		1	%REC	Limit	10-149	04/08/2013 8:18 PM	Container-03 of 04
Surr: Tetrachloro-m-xylene	89.2		1	%REC	Limit	16-128	04/08/2013 8:18 PM	Container-03 of 04

Qualifiers: E = Value above quantitation range
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N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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NYSDOH ID#10478

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Collected : 4/4/2013 7:30:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Lab No. : 1304347-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 4/5/2013 12:11:19 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,2´-oxybis(1-Chloropropane)	< 1.0	c	1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4,5-Trichlorophenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4,6-Trichlorophenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4-Dichlorophenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4-Dimethylphenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4-Dinitrophenol	< 10		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,4-Dinitrotoluene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2,6-Dinitrotoluene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Chloronaphthalene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Chlorophenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Methylnaphthalene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Methylphenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Nitroaniline	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
2-Nitrophenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
3,3´-Dichlorobenzidine	< 10		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
3/4-Methylphenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
3-Nitroaniline	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4,6-Dinitro-2-methylphenol	< 10		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Bromophenyl-phenylether	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Chloro-3-methylphenol	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Chloroaniline	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Chlorophenyl-phenylether	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Nitroaniline	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
4-Nitrophenol	< 10		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Acenaphthene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Acenaphthylene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Anthracene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Benzo(a)anthracene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Benzo(a)pyrene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Benzo(b)fluoranthene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04
Benzo(g,h,i)perylene	< 1.0		1	µg/L	04/06/2013 12:29 AM	Container-01 of 04

Qualifiers: E = Value above quantitation range
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Laboratory Manager

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NYSDOH ID#10478

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7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/4/2013 7:30:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Lab No. : 1304347-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 4/5/2013 12:11:19 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Benzo(k)fluoranthene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Bis(2-chloroethoxy)methane	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Bis(2-chloroethyl)ether	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Bis(2-ethylhexyl)phthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Butyl benzyl phthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Carbazole	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Chrysene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Dibenzo(a,h)anthracene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Dibenzofuran	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Diethylphthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Dimethylphthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Di-n-butyl phthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Di-n-octyl phthalate	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Fluoranthene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Fluorene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Hexachlorobenzene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Hexachlorobutadiene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Hexachlorocyclopentadiene	< 10	c	1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Hexachloroethane	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Indeno(1,2,3-cd)pyrene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Isophorone	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Naphthalene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Nitrobenzene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
N-Nitroso-di-n-propylamine	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
N-Nitrosodiphenylamine	5.8		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Pentachlorophenol	< 10		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Phenanthrene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Phenol	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Pyrene	< 1.0		1	µg/L			04/06/2013 12:29 AM	Container-01 of 04
Surr: 1,2-Dichlorobenzene-d4	61.9		1	%REC	Limit	16-110	04/06/2013 12:29 AM	Container-01 of 04
Surr: 2,4,6-Tribromophenol	123	S	1	%REC	Limit	10-123	04/06/2013 12:29 AM	Container-01 of 04
Surr: 2-Chlorophenol-d4	71.3		1	%REC	Limit	33-110	04/06/2013 12:29 AM	Container-01 of 04

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7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/4/2013 7:30:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 4/5/2013 12:11:19 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Surr: 2-Fluorobiphenyl	84.8		1	%REC	Limit 43-116	04/06/2013 12:29 AM	Container-01 of 04
Surr: 2-Fluorophenol	36.1		1	%REC	Limit 21-110	04/06/2013 12:29 AM	Container-01 of 04
Surr: 4-Terphenyl-d14	89.9		1	%REC	Limit 33-141	04/06/2013 12:29 AM	Container-01 of 04
Surr: Nitrobenzene-d5	70.5		1	%REC	Limit 35-114	04/06/2013 12:29 AM	Container-01 of 04
Surr: Phenol-d5	31.1		1	%REC	Limit 10-110	04/06/2013 12:29 AM	Container-01 of 04

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 4/5/2013 9:52:00 AM Analyst: CN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Carbonaceous Biological Oxygen Demand	4		1	mg/L	04/05/2013 11:40 AM	Container-01 of 01

Analytical Method: SM4500-CL- E : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	2,460	D	100	mg/L	04/09/2013 2:05 PM	Container-01 of 01

Analytical Method: M3500-Cr D : Analyst: EM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chromium, Hexavalent	< 0.02		1	mg/L	04/05/2013 5:32 AM	Container-01 of 01

Analytical Method: E245.1 : Prep Method: E245.1 Prep Date: 4/10/2013 10:00:00 AM Analyst: JG

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.2		1	ug/L	04/10/2013 1:38 PM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10		1	mg/L	04/05/2013 9:14 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrate as N	0.61		1	mg/L	04/05/2013 10:50 AM	Container-01 of 01

Analytical Method: M4500-N C : Analyst: Calc

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Total	64.7		1	mg/L	04/15/2013	Container-01 of 01

Analytical Method: E351.2 : Prep Method: E351.2 Prep Date: 4/12/2013 6:45:00 AM Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Kjeldahl, Total	64.1	D	10	mg/L	04/12/2013 3:43 PM	Container-01 of 01

Qualifiers:
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7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/4/2013
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,1,2-Trichloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,1-Dichloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,1-Dichloroethene	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,2-Dichlorobenzene	2.5		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,2-Dichloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,2-Dichloroethene (total)	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,2-Dichloropropane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,3-Dichlorobenzene	1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
1,4-Dichlorobenzene	3.7		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
2-Butanone	< 5.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
2-Hexanone	< 5.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
4-Methyl-2-pentanone	< 5.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Acetone	5.1		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Benzene	2.5		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Bromodichloromethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Bromoform	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Bromomethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Carbon disulfide	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Carbon tetrachloride	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Chlorobenzene	28		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Chloroethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Chloroform	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Chloromethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
cis-1,3-Dichloropropene	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Dibromochloromethane	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Ethylbenzene	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
m,p-Xylene	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Methyl tert-butyl ether	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
Methylene chloride	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08
o-Xylene	< 1.0		1	µg/L	04/08/2013 8:35 PM	Container-01 of 08

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported : 4/16/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/4/2013
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Styrene	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Tetrachloroethene	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Toluene	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
trans-1,3-Dichloropropene	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Trichloroethene	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Vinyl chloride	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Xylene (total)	< 1.0		1	µg/L			04/08/2013 8:35 PM	Container-01 of 08
Surr: 1,2-Dichloroethane-d4	95.5		1	%REC	Limit	51-156	04/08/2013 8:35 PM	Container-01 of 08
Surr: 4-Bromofluorobenzene	101		1	%REC	Limit	40-150	04/08/2013 8:35 PM	Container-01 of 08
Surr: Toluene-d8	100		1	%REC	Limit	61-156	04/08/2013 8:35 PM	Container-01 of 08

Analytical Method: SM4500-CN E : Prep Method: SM4500-CN E Prep Date: 4/8/2013 12:00:00 PM Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide	< 10		1	µg/L	04/08/2013 2:51 PM	Container-01 of 01

Analytical Method: SM4500-CN G : Prep Method: SM4500-CN E Prep Date: 4/8/2013 12:00:00 PM Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide, Amenable to Chlorinatio	< 1.0		1	µg/L	04/08/2013 2:52 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/3/2013 9:00:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-003
Client Sample ID: M1 - 9:00 GRAB #1

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	04/08/2013 8:50 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: BJV

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	7.3	H +	1	pH Units	04/04/2013 4:40 PM	Container-01 of 01
pH Temperature	9.3	H +	1	°C	04/04/2013 4:40 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	14		1	mg/L	04/07/2013 8:49 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/3/2013 11:00:00 AM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1304347-004
Client Sample ID: M1 - 11:00 GRAB #2

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	04/08/2013 8:55 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: BJV

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	7.2	H +	1	pH Units	04/04/2013 4:41 PM	Container-01 of 01
pH Temperature	9.2	H +	1	°C	04/04/2013 4:41 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	04/07/2013 8:51 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
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s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/3/2013 1:00:00 PM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Lab No. : 1304347-005
Client Sample ID: M1 - 13:00 GRAB #3

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	04/08/2013 9:00 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: BJV

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	7.2	H +	1	pH Units	04/04/2013 4:42 PM	Container-01 of 01
pH Temperature	9.4	H +	1	°C	04/04/2013 4:42 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	04/07/2013 8:53 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
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Joann M. Slavin
Laboratory Manager

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Date Reported : 4/16/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 4/3/2013 2:30:00 PM
Received : 4/4/2013 3:13:00 PM
Collected By EM99

Lab No. : 1304347-006
Client Sample ID: M1 - 14:30 GRAB #4

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	04/08/2013 9:05 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: BJV

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	7.1	H +	1	pH Units	04/04/2013 4:43 PM	Container-01 of 01
pH Temperature	9.6	H +	1	°C	04/04/2013 4:43 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	04/07/2013 8:55 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
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Laboratory Manager

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H2M LABS INC
575 Broad Hollow Rd.
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name **STRATIS** Date and Time Received: **4/4/2013 3:13:00 PM**

Work Order Number: **1304347** RcptNo: **1** Received by: **LindsayPacelli**

Completed by: Lindsay Pacelli Reviewed by: Jennifer Cox

Completed Date: 4/4/2013 3:49:32 PM Reviewed Date: 4/8/2013 12:54:54 PM

Carrier name: Client

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To 4.9 º	
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bil	☐	Sticker	☐	Not Present	☑
Airbill No:						

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☑ No Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

ECOTEST LABORATORIES, INC. • ENVIRONMENTAL TESTING

A Division of H2M Labs, Inc.
575 Broad Hollow Road
Melville, NY 11747

CHAIN OF CUSTODY RECORD

PENNSYLVANIA AVE. LANDFILL

Cooler temp 2.1 - 2 °C
IR gun 111728524 / 122076478
pH strips (HC256691) ≤2 3 9 ≥12
Free Cl2 strips(041912C)Present/Absent
Lot#_____

M1

Client: **STRATIS CONTRACTING CORP.**
Address: **7 Corporate Drive**
Peekskill, NY 10566
Phone: **(914) 736-1808** FAX: **(914) 788-6294**
Person receiving report: **Vincent Pelusio**
Sampled by: **Ed E. McLean**
Source: **Pennsylvania Avenue Landfill**
Job No.:
IWD Permit No.: 11-P3145-1

MATRIX (Water, Soil, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	Total Number of Containers: 27	VOCs (Grabs composited at Lab) 40 mL VIALS [HCl]	Cyanide (Grabs composited at Lab) 250 mL Plastic [NaOH]	TSS, pH 500 mL Plastic	Oil & Grease 1 Liter Amber Glass [HCl]	Non Metals 1 Liter Plastic	Metals 500 mL Plastic [HNO_3]	Total N, TKN 250 mL Amber Glass [H_2SO_4]	SVOC (625) and PCB (608) 1 Liter Amber Glass	Field Ph	Lab. ID #	REMARKS
Water	4/3/13	9:00	M1 - 9:00 - Grab #1	5	2	1	1	1						1304347	002 003 / 002
Water	4/3/13	11:00	M1 - 11:00 - Grab #2	5	2	1	1	1							003 004
Water	4/3/13	13:00	M1 - 13:00 - Grab #3	5	2	1	1	1							005
Water	4/3/13	14:30	M1 - 14:30 - Grab #4	5	2	1	1	1							006
Start:	4/3/13	8:30	M1 - 24 Hour Field Composite												001
End:	4/4/13	7:30		7					1	1	1	4			

Laboratory Use Only
Samples were:
1. Shipped____ or Hand Delivered ___ Airbill#_____
2. Ambient or Chilled, **Temperature** 4.9
3. Received in good condition (Yes) or No
4. Properly preserved Yes or No
• Discrepancies between labels and COC? Yes or No

Relinquished by: (Signature) / Representing:	Date / Time	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	Date / Time	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:
Ed E. McLean	Date: 4-4-13 Time: 2:00 PM				Date: 4/4/13 Time: 15:13	(NA)	4/4/13
Relinquished by: (Signature) / Representing:	Date: / Time:	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	Date: / Time:	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/7/2013 7:30:00 AM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 5/10/2013 10:00:00 AM Analyst: CM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cadmium	< 5.00		1	ug/L	05/14/2013 12:29 PM	Container-01 of 01
Chromium	< 0.01		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01
Copper	< 0.02		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01
Lead	8.32		1	ug/L	05/14/2013 12:29 PM	Container-01 of 01
Molybdenum	< 0.05		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01
Nickel	< 0.04		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01
Silver	< 0.01		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01
Zinc	< 0.02		1	mg/L	05/14/2013 12:29 PM	Container-01 of 01

Analytical Method: E608 : Prep Method: E608 Prep Date: 5/9/2013 1:35:45 PM Analyst: KB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Aroclor 1016	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1221	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1232	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1242	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1248	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1254	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Aroclor 1260	< 0.065		1	µg/L			05/09/2013 7:21 PM	Container-01 of 04
Surr: Decachlorobiphenyl	36.7		1	%REC	Limit	10-149	05/09/2013 7:21 PM	Container-01 of 04
Surr: Tetrachloro-m-xylene	72.1		1	%REC	Limit	16-128	05/09/2013 7:21 PM	Container-01 of 04

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

QA Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported : 5/16/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/7/2013 7:30:00 AM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 5/13/2013 2:04:36 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,2,4-Trichlorobenzene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,2´-oxybis(1-Chloropropane)	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4,5-Trichlorophenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4,6-Trichlorophenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4-Dichlorophenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4-Dimethylphenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4-Dinitrophenol	< 10		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,4-Dinitrotoluene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2,6-Dinitrotoluene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Chloronaphthalene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Chlorophenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Methylnaphthalene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Methylphenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Nitroaniline	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
2-Nitrophenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
3,3´-Dichlorobenzidine	< 10		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
3/4-Methylphenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
3-Nitroaniline	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4,6-Dinitro-2-methylphenol	< 10		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Bromophenyl-phenylether	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Chloro-3-methylphenol	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Chloroaniline	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Chlorophenyl-phenylether	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Nitroaniline	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
4-Nitrophenol	< 10		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Acenaphthene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Acenaphthylene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Anthracene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Benzo(a)anthracene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Benzo(a)pyrene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Benzo(b)fluoranthene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04
Benzo(g,h,i)perylene	< 1.0		1	µg/L	05/15/2013 4:11 AM	Container-02 of 04

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Nicole R. Crespi
QA Manager

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575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/7/2013 7:30:00 AM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 5/13/2013 2:04:36 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Benzo(k)fluoranthene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Bis(2-chloroethoxy)methane	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Bis(2-chloroethyl)ether	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Bis(2-ethylhexyl)phthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Butyl benzyl phthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Carbazole	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Chrysene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Dibenzo(a,h)anthracene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Dibenzofuran	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Diethylphthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Dimethylphthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Di-n-butyl phthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Di-n-octyl phthalate	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Fluoranthene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Fluorene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Hexachlorobenzene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Hexachlorobutadiene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Hexachlorocyclopentadiene	< 10		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Hexachloroethane	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Indeno(1,2,3-cd)pyrene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Isophorone	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Naphthalene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Nitrobenzene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
N-Nitroso-di-n-propylamine	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
N-Nitrosodiphenylamine	5.7		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Pentachlorophenol	< 10	c	1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Phenanthrene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Phenol	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Pyrene	< 1.0		1	µg/L			05/15/2013 4:11 AM	Container-02 of 04
Surr: 1,2-Dichlorobenzene-d4	61.7		1	%REC	Limit	16-110	05/15/2013 4:11 AM	Container-02 of 04
Surr: 2,4,6-Tribromophenol	90.9		1	%REC	Limit	10-123	05/15/2013 4:11 AM	Container-02 of 04
Surr: 2-Chlorophenol-d4	59.8		1	%REC	Limit	33-110	05/15/2013 4:11 AM	Container-02 of 04

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Nicole R. Crespi
QA Manager

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NYSDOH ID#10478

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Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 5/13/2013 2:04:36 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Surr: 2-Fluorobiphenyl	79.3		1	%REC	Limit	43-116	05/15/2013 4:11 AM	Container-02 of 04
Surr: 2-Fluorophenol	35.5		1	%REC	Limit	21-110	05/15/2013 4:11 AM	Container-02 of 04
Surr: 4-Terphenyl-d14	100		1	%REC	Limit	33-141	05/15/2013 4:11 AM	Container-02 of 04
Surr: Nitrobenzene-d5	72.4		1	%REC	Limit	35-114	05/15/2013 4:11 AM	Container-02 of 04
Surr: Phenol-d5	22.7		1	%REC	Limit	10-110	05/15/2013 4:11 AM	Container-02 of 04

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 5/8/2013 6:36:58 AM Analyst: CN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Carbonaceous Biological Oxygen Demand	< 4		1	mg/L	05/08/2013	Container-01 of 01

Analytical Method: SM4500-CL- E : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	3,160	D	100	mg/L	05/13/2013 2:31 PM	Container-01 of 01

Analytical Method: M3500-Cr D : Analyst: EM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chromium, Hexavalent	< 0.02		1	mg/L	05/08/2013 6:18 AM	Container-01 of 01

Analytical Method: E245.1 : Prep Method: E245.1 Prep Date: 5/15/2013 9:30:00 AM Analyst: JG

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.2		1	ug/L	05/15/2013 2:17 PM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10		1	mg/L	05/08/2013 11:23 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrate as N	0.11		1	mg/L	05/08/2013 2:17 PM	Container-01 of 01

Analytical Method: M4500-N C : Analyst: Calc

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Total	70.8		1	mg/L	05/09/2013	Container-01 of 01

Analytical Method: E351.2 : Prep Method: E351.2 Prep Date: 5/9/2013 6:00:00 AM Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Kjeldahl, Total	70.7	D	10	mg/L	05/09/2013 2:43 PM	Container-01 of 01

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QA Manager

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NYSDOH ID#10478

LABORATORY RESULTS

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/6/2013 2:30:00 PM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Lab No. : 1305346-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,1,2-Trichloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,1-Dichloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,1-Dichloroethene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,2-Dichlorobenzene	1.8		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,2-Dichloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,2-Dichloroethene (total)	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,2-Dichloropropane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,3-Dichlorobenzene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
1,4-Dichlorobenzene	2.7		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
2-Butanone	< 5.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
2-Hexanone	< 5.0	S	1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
4-Methyl-2-pentanone	< 5.0	S	1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Acetone	11		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Benzene	2.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Bromodichloromethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Bromoform	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Bromomethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Carbon disulfide	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Carbon tetrachloride	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Chlorobenzene	22		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Chloroethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Chloroform	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Chloromethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
cis-1,3-Dichloropropene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Dibromochloromethane	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Ethylbenzene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
m,p-Xylene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Methyl tert-butyl ether	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
Methylene chloride	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08
o-Xylene	< 1.0		1	µg/L	05/10/2013 12:48 PM	Container-01 of 08

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QA Manager

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Collected : 5/6/2013 2:30:00 PM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Styrene	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Tetrachloroethene	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Toluene	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
trans-1,3-Dichloropropene	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Trichloroethene	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Vinyl chloride	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Xylene (total)	< 1.0		1	µg/L			05/10/2013 12:48 PM	Container-01 of 08
Surr: 1,2-Dichloroethane-d4	121		1	%REC	Limit	51-156	05/10/2013 12:48 PM	Container-01 of 08
Surr: 4-Bromofluorobenzene	102		1	%REC	Limit	40-150	05/10/2013 12:48 PM	Container-01 of 08
Surr: Toluene-d8	99.3		1	%REC	Limit	61-156	05/10/2013 12:48 PM	Container-01 of 08

Analytical Method: SM4500-CN E : Prep Method: SM4500-CN E Prep Date: 5/8/2013 10:45:00 AM Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide	< 10		1	µg/L	05/08/2013 2:44 PM	Container-01 of 01

Analytical Method: SM4500-CN G : Prep Method: SM4500-CN E Prep Date: 5/8/2013 10:45:00 AM Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide, Amenable to Chlorinatior	< 1.0		1	µg/L	05/08/2013 2:45 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range
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Nicole R. Crespi
QA Manager

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7 Corporate Drive
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Attn To : Vincent G. Pelusio
Collected : 5/6/2013 9:00:00 AM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-003
Client Sample ID: M1 - 9:00 GRAB #1

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	05/10/2013 7:30 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: LP

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	05/08/2013 6:47 PM	Container-01 of 01
pH Temperature	10	H +	1	°C	05/08/2013 6:47 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	05/09/2013	Container-01 of 01

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7 Corporate Drive
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Attn To : Vincent G. Pelusio
Collected : 5/6/2013 11:00:00 AM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-004
Client Sample ID: M1 - 11:00 GRAB #2

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	05/10/2013 7:35 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: LP

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	05/08/2013 6:48 PM	Container-01 of 01
pH Temperature	9.2	H +	1	°C	05/08/2013 6:48 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	05/09/2013	Container-01 of 01

Qualifiers:
E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Nicole R. Crespi
QA Manager

Test results meet the requirements of NELAC unless otherwise noted.

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ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/6/2013 1:00:00 PM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-005
Client Sample ID: M1 - 13:00 GRAB #3

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	05/10/2013 7:40 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: LP

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	05/08/2013 6:50 PM	Container-01 of 01
pH Temperature	8.8	H +	1	°C	05/08/2013 6:50 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	05/09/2013	Container-01 of 01

Qualifiers:
E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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Nicole R. Crespi
QA Manager

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NYSDOH ID#10478

LABORATORY RESULTS

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 5/6/2013 2:30:00 PM
Received : 5/7/2013 3:33:00 PM
Collected By : EM99

Penn Ave Monthly

Lab No. : 1305346-006
Client Sample ID: M1 - 14:30 GRAB #4

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	05/10/2013 7:45 AM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: LP

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	05/08/2013 6:51 PM	Container-01 of 01
pH Temperature	10.5	H +	1	°C	05/08/2013 6:51 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	05/09/2013	Container-01 of 01

Qualifiers:
E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
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QA Manager

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H2M LABS INC
575 Broad Hollow Rd.
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name: **STRATIS** Date and Time Received: **5/7/2013 3:33:00 PM**

Work Order Number: **1305346** RcptNo: **1** Received by: **LindsayPacelli**

Completed by: M - Ward Reviewed by: Jennifer Cox

Completed Date: 5/7/2013 Reviewed Date: 5/8/2013 9:42:54 PM

Carrier name: Client

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To 3.9 º	
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☐	Sticker	☐	Not Present	☑

Airbill No:

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☑ No Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

ECO TEST LABORATORIES. INC. • ENVIRONMENTAL TESTING

A Division of H2M Labs, Inc.
575 Broad Hollow Road
Melville, NY 11747

CHAIN OF CUSTODY RECORD

M1

Client: **STRATIS CONTRACTING CORP.**
Address: **7 Corporate Drive**
Peekskill, NY 10566
Phone: **(914) 736-1808** FAX: **(914) 788-6294**
Person receiving report: **Vincent Pelusio**
Sampled by: **Ed E. McLean**
Source: **Pennsylvania Avenue Landfill**
Job No.:
IWD Permit No.: 11-P3145-1

Laboratory Use Only
Samples were:
1. Shipped___ or Hand Delivered_✓_ Airbill#_____
2. Ambient or Chilled, **Temperature** 3.9°C
3. Received in good condition Yes or No
4. Properly preserved Yes or No
• Discrepancies between labels and COC? Yes or No

MATRIX (Water, Soil, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	Total Number of Containers: 27	VOCs (Grabs composited at Lab) 40 mL VIALS [HCl]	Cyanide (Grabs composited at Lab) 250 mL Plastic [NaOH]	TSS, pH 500 mL Plastic	Oil & Grease 1 Liter Amber Glass [HCl]	Non Metals 1 Liter Plastic	Metals 500 mL Plastic [HNO_3]	Total N, TKN 250 mL Amber Glass [H_2SO_4]	SVOC (625) and PCB (608) 1 Liter Amber Glass	Field Ph	Lab. ID #	REMARKS
Water	5/6/13	9:00	M1 - 9:00 - Grab #1	5	2	1	1	1						1305346	
Water	5/6/13	11:00	M1 - 11:00 - Grab #2	5	2	1	1	1						↓	
Water	5/6/13	13:00	M1 - 13:00 - Grab #3	5	2	1	1	1							
Water	5/6/13	14:30	M1 - 14:30 - Grab #4	5	2	1	1	1							
Start:	5/6/13	8:30	M1 - 24 Hour Field Composite												
End:	5/7/13	7:30		7					1	1	1	4		↓	

Relinquished by: (Signature)	Date / Time	SEAL INTACT? YES NO NA	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	SEAL INTACT? YES NO NA	Received by: (Signature)
Ed E. McLean Representing:	Date: 5-7-13 Time: 2:30 PM		Representing:	Representing:	Date: 5/7/13 Time: 15:33		Representing:
Relinquished by: (Signature) Representing:	Date: Time:	SEAL INTACT? YES NO NA	Received by: (Signature) Representing:	Relinquished by: (Signature) Representing:	Date: Time:	SEAL INTACT? YES NO NA	Received by: (Signature) Representing:

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 7:30:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E200.7 : Prep Method: E200.7 Prep Date: 6/12/2013 9:01:00 AM Analyst: Aba

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cadmium	< 5.00		1	ug/L	06/17/2013 4:35 PM	Container-01 of 01
Chromium	< 0.01		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01
Copper	< 0.02		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01
Lead	12.7		1	ug/L	06/17/2013 4:35 PM	Container-01 of 01
Molybdenum	< 0.05		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01
Nickel	< 0.04		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01
Silver	< 0.01		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01
Zinc	< 0.02		1	mg/L	06/17/2013 4:35 PM	Container-01 of 01

Analytical Method: E608 : Prep Method: E608 Prep Date: 6/11/2013 1:08:06 PM Analyst: KB

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Aroclor 1016	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1221	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1232	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1242	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1248	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1254	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Aroclor 1260	< 0.065		1	µg/L			06/12/2013 12:33 PM	Container-02 of 04
Surr: Decachlorobiphenyl	50.8		1	%REC	Limit	10-149	06/12/2013 12:33 PM	Container-02 of 04
Surr: Tetrachloro-m-xylene	86.2		1	%REC	Limit	16-128	06/12/2013 12:33 PM	Container-02 of 04

Qualifiers: E = Value above quantitation range
B = Found in Blank
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N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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Date Reported : 6/24/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 7:30:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 6/12/2013 6:13:26 PM Analyst: EAG

Parameter(s)	Results	Qualifier		D.F.	Units	Analyzed:	Container:
1,2,4-Trichlorobenzene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,2´-oxybis(1-Chloropropane)	< 1.0	c		1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4,5-Trichlorophenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4,6-Trichlorophenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4-Dichlorophenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4-Dimethylphenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4-Dinitrophenol	< 10			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,4-Dinitrotoluene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2,6-Dinitrotoluene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Chloronaphthalene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Chlorophenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Methylnaphthalene	< 1.0		+	1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Methylphenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Nitroaniline	< 1.0		+	1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
2-Nitrophenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
3,3´-Dichlorobenzidine	< 10			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
3/4-Methylphenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
3-Nitroaniline	< 1.0		+	1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4,6-Dinitro-2-methylphenol	< 10			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Bromophenyl-phenylether	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Chloro-3-methylphenol	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Chloroaniline	< 1.0		+	1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Chlorophenyl-phenylether	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Nitroaniline	< 1.0		+	1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
4-Nitrophenol	< 10			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Acenaphthene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Acenaphthylene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Anthracene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Benzo(a)anthracene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Benzo(a)pyrene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Benzo(b)fluoranthene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04
Benzo(g,h,i)perylene	< 1.0			1	µg/L	06/13/2013 5:25 PM	Container-03 of 04

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Laboratory Manager

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 7:30:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Lab No. : 1306393-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 6/12/2013 6:13:26 PM Analyst: EAG

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Benzo(k)fluoranthene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Bis(2-chloroethoxy)methane	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Bis(2-chloroethyl)ether	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Bis(2-ethylhexyl)phthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Butyl benzyl phthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Carbazole	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Chrysene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Dibenzo(a,h)anthracene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Dibenzofuran	< 1.0	+	1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Diethylphthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Dimethylphthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Di-n-butyl phthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Di-n-octyl phthalate	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Fluoranthene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Fluorene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Hexachlorobenzene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Hexachlorobutadiene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Hexachlorocyclopentadiene	< 10	c	1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Hexachloroethane	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Indeno(1,2,3-cd)pyrene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Isophorone	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Naphthalene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Nitrobenzene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
N-Nitroso-di-n-propylamine	< 1.0	c	1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
N-Nitrosodiphenylamine	5.1		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Pentachlorophenol	< 10		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Phenanthrene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Phenol	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Pyrene	< 1.0		1	µg/L			06/13/2013 5:25 PM	Container-03 of 04
Surr: 1,2-Dichlorobenzene-d4	52.4		1	%REC	Limit	16-110	06/13/2013 5:25 PM	Container-03 of 04
Surr: 2,4,6-Tribromophenol	99.1		1	%REC	Limit	10-123	06/13/2013 5:25 PM	Container-03 of 04
Surr: 2-Chlorophenol-d4	60.0		1	%REC	Limit	33-110	06/13/2013 5:25 PM	Container-03 of 04

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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Joann M. Slavin
Laboratory Manager

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Date Reported : 6/24/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 7:30:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E625 : Prep Method: E625 Prep Date: 6/12/2013 6:13:26 PM Analyst: EAG

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Surr: 2-Fluorobiphenyl	71.8		1	%REC	Limit	43-116	06/13/2013 5:25 PM	Container-03 of 04
Surr: 2-Fluorophenol	43.4		1	%REC	Limit	21-110	06/13/2013 5:25 PM	Container-03 of 04
Surr: 4-Terphenyl-d14	92.2		1	%REC	Limit	33-141	06/13/2013 5:25 PM	Container-03 of 04
Surr: Nitrobenzene-d5	56.9		1	%REC	Limit	35-114	06/13/2013 5:25 PM	Container-03 of 04
Surr: Phenol-d5	32.6		1	%REC	Limit	10-110	06/13/2013 5:25 PM	Container-03 of 04

Analytical Method: SM5210B : Prep Method: SM5210B Prep Date: 6/7/2013 9:18:18 AM Analyst: CN

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Carbonaceous Biological Oxygen Demand	< 4		1	mg/L	06/07/2013 3:25 PM	Container-01 of 01

NOTES:
Blank depletion exceeds 0.2 mg/L - average depletion of 0.58 mg/L

Analytical Method: SM4500-CL- E : Analyst: bka

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chloride	33.0		1	mg/L	06/12/2013 12:55 PM	Container-01 of 01

Analytical Method: M3500-Cr D : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Chromium, Hexavalent	0.07		1	mg/L	06/08/2013	Container-01 of 01

Analytical Method: E245.1 : Prep Method: E245.1 Prep Date: 6/11/2013 10:00:00 AM Analyst: Aba

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.2		1	ug/L	06/11/2013 3:37 PM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrite as N	< 0.10		1	mg/L	06/08/2013 7:36 AM	Container-01 of 01

Analytical Method: E353.2 : Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrate as N	0.17		1	mg/L	06/08/2013 8:08 AM	Container-01 of 01

Analytical Method: M4500-N C : Analyst: Calc

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Total	71.0		1	mg/L	06/11/2013	Container-01 of 01

Qualifiers:
E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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Date Reported : 6/24/2013

ECOTEST LABORATORIES
A division of H2M Labs, Inc.

575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 7:30:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-001
Client Sample ID: M1 - 24 HOUR COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E351.2 : Prep Method: E351.2 Prep Date: 6/11/2013 7:30:00 AM Analyst: MJL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Nitrogen, Kjeldahl, Total	70.8	D	10	mg/L	06/11/2013 4:13 PM	Container-01 of 01

Qualifiers:
E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
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c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
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Laboratory Manager

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 2:30:00 PM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Lab No. : 1306393-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Penn Ave Monthly

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
1,1,1-Trichloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,1,2,2-Tetrachloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,1,2-Trichloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,1-Dichloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,1-Dichloroethene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,2-Dichlorobenzene	2.4		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,2-Dichloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,2-Dichloroethene (total)	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,2-Dichloropropane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,3-Dichlorobenzene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
1,4-Dichlorobenzene	3.6		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
2-Butanone	< 5.0	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
2-Hexanone	< 5.0	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
4-Methyl-2-pentanone	< 5.0	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Acetone	10	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Benzene	2.7		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Bromodichloromethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Bromoform	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Bromomethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Carbon disulfide	< 1.0	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Carbon tetrachloride	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Chlorobenzene	28		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Chloroethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Chloroform	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Chloromethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
cis-1,3-Dichloropropene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Dibromochloromethane	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Ethylbenzene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
m,p-Xylene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Methyl tert-butyl ether	< 1.0	+	1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
Methylene chloride	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08
o-Xylene	< 1.0		1	µg/L	06/08/2013 1:40 PM	Container-01 of 08

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/7/2013 2:30:00 PM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-002
Client Sample ID: M1 - 4 GRAB COMPOSITE

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E624 : Analyst: GKB

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Styrene	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Tetrachloroethene	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Toluene	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
trans-1,3-Dichloropropene	< 1.0	c	1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Trichloroethene	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Vinyl chloride	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Xylene (total)	< 1.0		1	µg/L		06/08/2013 1:40 PM	Container-01 of 08
Surr: 1,2-Dichloroethane-d4	127		1	%REC	Limit 51-156	06/08/2013 1:40 PM	Container-01 of 08
Surr: 4-Bromofluorobenzene	102		1	%REC	Limit 40-150	06/08/2013 1:40 PM	Container-01 of 08
Surr: Toluene-d8	96.1		1	%REC	Limit 61-156	06/08/2013 1:40 PM	Container-01 of 08

Analytical Method: SM4500-CN E : Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide	< 10		1	µg/L	06/11/2013 4:15 PM	Container-01 of 01

Analytical Method: SM4500-CN G : Analyst: HT

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Cyanide, Amenable to Chlorinatio	< 1.0		1	µg/L	06/11/2013 4:16 PM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Joann M. Slavin
Laboratory Manager

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/6/2013 9:00:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-003
Client Sample ID: M1 - 9:00 GRAB #1

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	06/08/2013 12:20 PM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: Client

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	06/07/2013 5:29 PM	Container-01 of 01
pH Temperature	20.2	H +	1	°C	06/07/2013 5:29 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MLM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	06/10/2013 11:44 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
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Laboratory Manager

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NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/6/2013 11:00:00 AM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-004
Client Sample ID: M1 - 11:00 GRAB #2

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	06/08/2013 12:25 PM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: Client

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	06/07/2013 5:31 PM	Container-01 of 01
pH Temperature	19.9	H +	1	°C	06/07/2013 5:31 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MLM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	11		1	mg/L	06/10/2013 11:46 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

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Laboratory Manager

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575 Broad Hollow Rd. , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/6/2013 1:00:00 PM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-005
Client Sample ID: M1 - 13:00 GRAB #3

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&C	< 5.0		1	mg/L	06/08/2013 12:30 PM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: Client

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	06/07/2013 5:34 PM	Container-01 of 01
pH Temperature	20.3	H +	1	°C	06/07/2013 5:34 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MLM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	< 10		1	mg/L	06/10/2013 11:48 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
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s = Recovery exceeded control limits for this analyte
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Laboratory Manager

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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478

LABORATORY RESULTS

Results for the samples and analytes requested

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Stratis Contracting Corp.
7 Corporate Drive
Peekskill, NY 10566
Attn To : Vincent G. Pelusio
Collected : 6/6/2013 2:30:00 PM
Received : 6/7/2013 2:33:00 PM
Collected By EM99

Penn Ave Monthly

Lab No. : 1306393-006
Client Sample ID: M1 - 14:30 GRAB #4

Sample Information:
Type : Aqueous

Origin:

Analytical Method: E1664A : Analyst: CO

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Hexane Extractable Material (O&G	< 5.0		1	mg/L	06/08/2013 12:35 PM	Container-01 of 01

Analytical Method: SM4500-H B : IOC Analyst: Client

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
pH	6.9	H +	1	pH Units	06/07/2013 5:36 PM	Container-01 of 01
pH Temperature	20.1	H +	1	°C	06/07/2013 5:36 PM	Container-01 of 01

Analytical Method: SM2540D : Analyst: MLM

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Suspended Solids (Residue, Non-Filterable)	11		1	mg/L	06/10/2013 11:50 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = ELAP / NELAC does not offer certification for this analyte
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ
J = Estimated value - below calibration range
s = Recovery exceeded control limits for this analyte
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Laboratory Manager

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Date Reported : 6/24/2013

H2M LABS INC
575 Broad Hollow Rd.
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.h2mlabs.com

Sample Receipt Checklist

Client Name **STRATIS** Date and Time Received: **6/7/2013 2:33:00 PM**

Work Order Number: **1306393** RcptNo: **1** Received by: **Gina Pierre**

Completed by: M - Ward Reviewed by: Jennifer Cox

Completed Date: 6/7/2013 Reviewed Date: 6/13/2013 7:04:01 PM

Carrier name: Client

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☐	No	☑		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To 5.8 º	
Water - Were bubbles absent in VOC vials?	Yes	☑	No	☐	No Vials	☐
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☑	No	☐	No Water	☐
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bil	☐	Sticker	☐	Not Present	☑

Airbill No:

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☑ No Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

The samples for pH were received outside the analytical holdtime.

CorrectiveAction:

H 2 M labs
575 Broad Hollow Road, Melville, NY 11747
(631) 694-3040 Fax: (631) 420-8436
www.h2mlabs.com

EXTERNAL CHAIN OF CUTODY

Client: STRATIS CONTRACTING CORP.
7 Corporate Drive, Peekskill, NY 10566
Phone: **(914) 736-1808** FAX: **(914) 788-6294**

Project Contact: Vincent Pelusio

Project Name/Number: **Pennsylvania Avenue Landfill**
IWD Permit No.: 11-P3145-1

Source: **M1**

Sampled by: Ed E. McLean
Signature: Ed E. McLean

PIS/Quote #

H2M SDG NO:

Notes:

MATRIX	COLLECTED DATE	COLLECTED TIME	SAMPLE FIELD IDENTIFICATION	Total Number of Containers	VOCs (Grabs composited at Lab)	Cyanide (Grabs composited at Lab)	TSS, pH	Oil & Grease	Non Metals	Metals	Total N, TKN	SVOC (625) and PCB (608)	Field pH	Lab. ID No.	REMARKS
				27	40 mL VIALS [HCl]	250 mL Plastic [NaOH]	500 mL Plastic	1 Liter Amber Glass [HCl]	1 Liter Plastic	500 mL Plastic [HNO_3]	250 mL Amber Glass [H_2SO_4]	1 Liter Amber Glass			
					SAMPLE CONTAINER DESCRIPTION										
					ANALYSIS REQUESTED										
Water	6/6/13	9:00	M1 - 9:00 - Grab #1	5	2	1	1	1						1306393	
Water	6/6/13	11:00	M1 - 11:00 - Grab #1	5	2	1	1	1							
Water	6/6/13	13:00	M1 - 13:00 - Grab #1	5	2	1	1	1							
Water	6/6/13	14:30	M1 - 14:30 - Grab #1	5	2	1	1	1							
Start:	6/6/13	8:30	**M1 - 24 Hour Field Composite**												
End:	6/7/13	7:30		7					1	1	1	4			

Relinquished by: (Signature) Ed E. McLean	Date: 6-7-13	Time: 13:30	Received by: (Signature)	Date: 6/7/13	Time: 13:30
	Representing: STRATIS			Representing:	
Relinquished by: (Signature)	Date: 6/7/13	Time: 14:33	Received by: (Signature)	Date: 6/7/13	Time: 14:33
	Representing:			Representing:	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	Representing:			Representing:	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	Representing:			Representing:	

Laboratory Use Only
Cooler temp 5.8 °C
IR gun 122336969 / 122076478
pH strips (10BDH0431) ≤2 3 9 ≥12
Free Cl2 strips(041912C)Present/Absent
Lot#_____
1. Present on outer package: Yes or No
2. Unbroken on outer package: Yes or No

Appendix C – LFG Inspections

Landfill Gas Management System

LFG-1 Daily Inspections

(April, May and June, 2013)

PENNSYLVANIA AVENUE LANDFILL			Month: **April**									Year: **2013**			**LFG-1**
			Process Overview (YIC-1 From Main Menu Screen)									**Flow & Totalizer**			
DATE	TIME	Hours On Line	Landfill Vacuum (in WC)	Flow Rate (SCFM)	LFG Oxygen (%)	Blower Current (Amps)	Flare Top Temp. (°F)	Flare Middle Temp. (°F)	Flare Bottom Temp. (°F)	Area LEL (%)	Area #1 LEL	Area #2 LEL	Current Flow (SCFM)	Today's Total Flow (SCF)	Total Flow (SCF)	Yesterday's Flow (SCF)
1	7:19	24	8.7	118	0	6.1	1443	1513	1552	2	2	0	121	46,399	304,647,693	174,873
2	6:57	24	8.3	118	0	6.2	1427	1484	1526	2	2	0	120	443,338	304,816,365	170,733
3	7:05	24	8.4	117	0	6.3	1442	1507	1545	3	3	0	123	45,201	304,990,685	173,457
4	7:03	24	8.6	119	0	6.2	1417	1477	1509	3	3	0	121	44,828	305,162,713	172,401
5	7:01	24	8.6	122	0	6.2	1423	1485	1519	3	3	0	122	45,277	305,337,609	174,447
6		24														172,568
7		24														170,596
8	7:17	24	8.1	117	0	6.2	1379	1500	1557	2	2	0	121	46,585	305,855,847	173,766
9	6:53	24	6.0	116	0	6.1	1324	1508	1563	3	3	0	110	40,981	306,015,502	165,259
10	6:51	24	7.4	110	0	6	1409	1494	1545	2	2	0	111	39,710	306,174,355	160,124
11	7:25	24	9.5	110	0	6.2	1424	1497	1528	3	3	0	109	43,532	306,337,828	159,651
12	6:45	24	8.0	121	0	6.2	1444	1489	1514	3	3	0	125	41,498	306,497,231	161,437
13		24														169,259
14		24														169,862
15	7:28	24	9.0	118	0	6.2	1427	1488	1520	3	3	0	120	47,413	307,012,722	170,455
16	7:22	24	10.2	118	0	6.2	1426	1488	1538	3	3	0	119	46,957	307,184,928	172,662
17	9:06	24	8.2	116	0	6.2	1429	1495	1528	3	3	0	112	55,393	307,364,372	171,008
18	7:49	24	11.8	120	0	6.1	1415	1478	1527	3	3	0	120	50,885	307,521,608	161,744
19	8:15	24	14.8	116	0	6.1	1430	1493	1515	3	3	0	114	50,750	307,688,895	167,309
20		24														160,637
21		24														159,697
22	7:47	24	10.7	120	0	6.3	1420	1481	1498	3	3	0	120	50,234	308,177,457	168,740
23	6:15	24	7.9	124	0	6.1	1417	1487	1511	4	4	0	118	38,992	308,338,379	172,281
24	7:50	24	11.8	110	0	6.1	1377	1502	1560	3	3	0	113	47,467	308,516,068	169,214
25	6:38	18.5	7.7	113	0	6.1	1373	1486	1533	3	3	0	111	38,343	308,669,189	162,245
26	7:40	24	8.9	117	0	6.2	1428	1502	1547	0	0	0	114	46,876	308,806,684	128,962
27		24														166,041
28		24														165,074
29	7:09	24	7.1	117	0	6.1	1423	1495	1536	0	0	0	110	42,246	309,295,151	161,982
30	6:48	24	7.8	117	0	6.1	1418	1498	1546	0	0	0	120	42,909	309,463,941	168,127
4/25/13 - FDNY Methane Recovery System Inspection. Had trouble resetting system after the inspection was completed, and LEL sensor required calibration.														1-May		170,170
														April 2013 Total Flow:		**4,989,908**

PENNSYLVANIA AVENUE LANDFILL								Month:	**April**	Year:	**2013**		**LFG-1**			
		BLOWER STATION												**Blower Data**			
DATE	TIME	Blower In Service **301** or **302**	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Balance Gas (% Vol)	Inlet Vacuum (in WC)	Demister Inlet Valve Position (% Open)	Demister Differential Pressure (in WC)	Nitrogen Pressure (psi)	Blower Inlet Valve (% Open)	Blower Inlet Temp. (°F)	Blower Discharge Temp. (°F)	Blower **301** Current (**Amps**)	Blower **301** Current (**Hours**)	Blower **302** Current (**Amps**)	Blower **302** Current (**Hours**)
1	7:19	302	21.5	18.1	0.6	59.8	7.6	20	1.4	1600	30	45	105	0.0	20806	6.2	32852
2	6:57	302	20.1	17.8	0.8	61.3	8.4	20	0.2	1600	30	52	98	0.0	20806	6.2	32875
3	7:05	302	19.7	17.5	0.8	62.0	8.3	20	0.1	1600	30	52	94	0.0	20806	6.3	32899
4	7:03	302	18.6	16.9	1.6	62.9	9.2	20	0.4	1600	30	52	100	0.0	20806	6.2	32923
5	7:01	302	20.0	17.4	1.1	61.5	8.1	20	0.5	1600	30	54	102	0.0	20806	6.2	32947
6																	
7																	
8	7:17	302	20.1	17.9	0.7	61.3	8.5	20	1.5	1600	30	56	108	0.0	20806	6.1	33020
9	6:53	302	20.4	18.2	0.4	61.0	7.6	20	2.3	1600	30	60	110	0.0	20806	6.1	33043
10	6:51	302	20.1	17.9	0.5	61.5	7.7	20	2.2	1600	30	64	112	0.0	20806	6.0	33067
11	7:25	302	19.9	18.0	0.4	61.7	7.9	20	2	1600	30	64	110	0.0	20806	6.1	33092
12	6:45	302	20.1	17.5	0.7	61.7	7.2	20	2	1600	30	58	96	0.0	20806	6.2	33115
13																	
14																	
15	7:28	302	18.7	17.8	0.6	62.9	8.2	20	2	1600	30	58	106	0.0	20806	6.3	33188
16	7:22	302	19.2	17.7	0.7	62.4	7.8	20	1.8	1600	30	60	108	0.0	20806	6.2	33212
17	9:06	302	19.1	17.3	0.6	63.0	7.7	20	2	1600	30	62	110	0.0	20806	6.1	33237
18	7:49	302	18.7	17.4	1.0	62.9	11.8	20	0.8	1600	30	63	108	0.0	20806	6.2	33260
19	8:15	302	19.3	17.6	1.1	62.0	7.7	20	2	1600	30	63	110	0.0	20806	6.1	33285
20																	
21																	
22	7:47	302	17.7	17.6	0.8	63.9	8.3	20	1.5	1600	30	58	102	0.0	20806	6.3	33356
23	6:15	302	18.8	18.0	0.7	62.5	7.9	20	1.8	1600	30	58	100	0.0	20806	6.1	33379
24	7:50	302	19.1	18.4	0.6	61.9	7.8	20	1.5	1600	30	60	110	0.0	20806	6.2	33404
25	6:38	302	18.2	17.5	0.9	63.4	7.7	20	1	1600	30	60	104	0.0	20806	6.1	33427
26	7:40	302	17.6	17.1	1.0	64.3	6.7	20	1	1600	30	62	110	0.0	20806	6.2	33447
27																	
28																	
29	7:09	302	19.4	18.2	0.4	62.0	8.1	20	1.8	1600	30	64	112	0.0	20806	6.1	33518
30	6:48	302	18.4	17.6	1.2	62.8	8.3	20	1.5	1600	30	64	112	0.0	20806	6.0	33542

PENNSYLVANIA AVENUE LANDFILL																LFG-1
		WEATHER					FLARE TEMPERATURE							FLARE STATION		
DATE	TIME	Weather	Ambient Temp (°F)	Wind Speed	Wind Direction	Barometric Pressure (in Hg)	Top Flare Temp. (°F)	Middle Flare Temp. (°F)	Bottom Flare Temp. (°F)	Controlling Thermo-couple	Louver Position (% Closed)	Control Temp. (SP)	Control Mode	Flare Inlet Pressure (in WC)	Flame Arrestor Differential Pressure (in WC)	Aux Fuel Pressure (in WC) Natural Gas
1	7:19	sun/clouds	44	7	W	29.55	1445	1515	1553	middle	89	1500	auto	1.84	0	0
2	6:57	sun/clouds	34	13	NW	29.82	1434	1499	1542	middle	92	1500	auto	1.14	0	0
3	7:05	clear	34	14	W	30.04	1440	1504	1545	middle	90	1500	auto	0.82	0	0
4	7:03	sun/clouds	33	5	WNW	30.24	1406	1473	1509	middle	92	1500	auto	0.90	0	0
5	7:01	overcast	40	7	S	29.82	1423	1486	1518	middle	90	1500	auto	0.92	0	0
6																
7																
8	7:17	sun/clouds	45	6	SW	29.91	1373	1500	1558	middle	90	1500	auto	1.11	0	0
9	6:53	sun/clouds	48	calm		29.97	1318	1504	1562	middle	89	1500	auto	1.10	0	0
10	6:51	sun/clouds	55	7	NNE	29.77	1412	1497	1545	middle	90	1500	auto	1.07	0	0
11	7:25	sun/clouds	55	8	N	29.75	1423	1495	1527	middle	89	1500	auto	1.02	0	0
12	6:45	showers	44	28	ENE	29.82	1444	1493	1516	middle	95	1500	auto	1.02	0	0
13																
14																
15	7:28	overcast	45	5	ENE	30.20	1421	1486	1519	middle	92	1500	auto	1.13	0	0
16	7:22	cloudy	50	11	SE	30.20	1426	1492	1541	middle	93	1500	auto	1.02	0	0
17	9:06	mostly cloudy	55	10	N	30.11	1426	1490	1524	middle	91	1500	auto	1.23	0	0
18	7:49	scattered clouds	52	14	E	30.18	1413	1480	1528	middle	92	1500	auto	1.02	0	0
19	8:15	fog/light drizzle	54	15	S	29.82	1427	1490	1513	middle	92	1500	auto	0.90	0	0
20																
21																
22	7:47	sun	45	11	ENE	30.49	1420	1480	1497	middle	94	1500	auto	1.06	0	0
23	6:15	cloudy	42	15	NE	30.21	1417	1488	1512	middle	93	1500	auto	1.02	0	0
24	7:50	sun/clouds	50	6	NW	29.91	1376	1502	1560	middle	93	1500	auto	1.07	0	0
25	6:38	sun/clouds	47	20	NW	29.95	1373	1486	1533	middle	96	1500	auto	1.00	0	0
26	7:40	sun	55	11	NNW	30.99	1426	1497	1545	middle	91	1500	auto	1.04	0	0
27																
28																
29	7:09	showers	52	9	SE	30.21	1425	1497	1538	middle	93	1500	auto	1.00	0	0
30	6:48	cloudy	53	5	NE	30.24	1420	1499	1548	middle	91	1500	auto	1.01	0	0

Notes:

PENNSYLVANIA AVENUE LANDFILL
LANDFILL DAILY OPERATIONS MONTHLY REPORT
Month: APRIL 2013

	Date	Landfill Gas System			Landfill - Cover & Stormwater Systems, Roads, etc.
		Hours On Line	Flare	LFG Collection - Extraction Wells	
Monday	1-Apr	24	The flare processed 4,989,908 scf of landfill gas during the month of April 2013. Supplemental natural gas was not needed during this period. The flare ran 99.2 % of the time, with one outage of 5.5 hours due to the Annual FDNY Inspection conducted on April 25th. The system operates on automatic mode, and the target temperature of 1,500°F is controlled by the middle thermocouple.	All 46 extraction wells were inspected and monitored this month.	Cleared downchute gratings and removed debris from culverts and swales.
Tuesday	2-Apr	24			
Wednesday	3-Apr	24			
Thursday	4-Apr	24		For details see the LFG-3 report.	
Friday	5-Apr	24			
Weekend	6-Apr	24			
	7-Apr	24			
Monday	8-Apr	24			
Tuesday	9-Apr	24			
Wednesday	10-Apr	24			
Thursday	11-Apr	24			
Friday	12-Apr	24			
Weekend	13-Apr	24			
	14-Apr	24			
Monday	15-Apr	24			
Tuesday	16-Apr	24			
Wednesday	17-Apr	24			
Thursday	18-Apr	24			
Friday	19-Apr	24			
Weekend	20-Apr	24			
	21-Apr	24			
Monday	22-Apr	24			
Tuesday	23-Apr	24			
Wednesday	24-Apr	24			
Thursday	25-Apr	18.5			
Friday	26-Apr	24			
Weekend	27-Apr	24			
	28-Apr	24			
Monday	29-Apr	24			
Tuesday	30-Apr	24			

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/1/13	**Time**	7:19
Technician	JM	Wind Speed/Direction	7 W
Ambient Temperature (°F)	44	Barometric Pressure (in Hg)	29.55
Weather	Sun/clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.4
Methane (% Vol)	21.5		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F) 45F	45
Balance Gas (% Vol)	59.8		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.6		Blower Discharge Temp. (°F) 105F	105
			Blower Discharge Pressure (in WC)	2.7

FLARE STATION		
Flare Inlet Pressure (in WC)		1.84
Flame Arrestor Differential Pressure (in WC)		0
Aux Fuel Pressure (in WC) - Natural Gas		0

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.7	Top Flare Temp. (°F)	1445
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1515
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1553
Blower Current (Amps)	6.1	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1443	Louver Position (% Closed)	89
Flare Middle Temp. (°F)	1513	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1552	Control Mode	Auto
Area LEL (%)	2		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	121
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	46399
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	3046497693
Blower **302** Current **(Hours)**	32852		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	174873	Resettable Total Flow (SCF)	193963539
2 Days Ago Flow (SCF)	175413	Reset Time	11:33:3
3 Days Ago Flow (SCF)	176089	Reset Date	11/21/08
4 Days Ago Flow (SCF)	176042		
5 Days Ago Flow (SCF)	174811	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	171926	Area **#1** LEL	2
7 Days Ago Flow (SCF)	174936	Area **#2** LEL	0

Date And Time			
Date	4/1/13	Time	7:27

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/2/13	**Time**	6:57
Technician	JM	Wind Speed/Direction	13 NW
Ambient Temperature (°F)	34	Barometric Pressure (in Hg)	29.82
Weather	sun/clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)	.2
Methane (% Vol)	20.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.8		Blower Inlet Valve (% Open)	30 52
Oxygen (% Vol)	0.8		Blower Inlet Temp. (°F)	
Balance Gas (% Vol)	61.3		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	-8.43		Blower Discharge Temp. (°F)	98
			Blower Discharge Pressure (in WC)	2.1

FLARE STATION		
Flare Inlet Pressure (in WC)	TOO HIGH	TO 14
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.3	Top Flare Temp. (°F)	1434
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1499
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1542
Blower Current (Amps)	6.2	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1427	Louver Position (% Closed)	92%
Flare Middle Temp. (°F)	1489	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1526	Control Mode	AUTO
Area LEL (%)	2		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	44338
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	3048116365
Blower **302** Current **(Hours)**	32875		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	170733	Resettable Total Flow (SCF)	194132207
2 Days Ago Flow (SCF)	174873	Reset Time	11:33:3
3 Days Ago Flow (SCF)	175413	Reset Date	11/21/08
4 Days Ago Flow (SCF)	176087		
5 Days Ago Flow (SCF)	176042	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	174811	Area #1 LEL	2
7 Days Ago Flow (SCF)	171926	Area #2 LEL	0

Date And Time			
Date	4/2/13	Time	7:09:32

4248991

414196

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/3/13	**Time**	7:05
Technician	JM	Wind Speed/Direction	14 W
Ambient Temperature (°F)	34	Barometric Pressure (in Hg)	30.04
Weather	~~SUN~~ CLEAR	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	.1
Methane (% Vol)	19.7		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.8		Blower Inlet Temp. (°F)	52
Balance Gas (% Vol)	61.8		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	8.30		Blower Discharge Temp. (°F)	94
			Blower Discharge Pressure (in WC)	1.3

FLARE STATION		
Flare Inlet Pressure (in WC)	.182	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.4	Top Flare Temp. (°F)	1440
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1504
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1545
Blower Current (Amps)	6.3	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1442	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1507	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1545	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	123
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	45201
Blower **302** Current **(Amps)**	6.3	Total Flow (SCF)	3049906885
Blower **302** Current **(Hours)**	32899		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	173457	Resettable Total Flow (SCF)	194306650
2 Days Ago Flow (SCF)	170733	Reset Time	11:33:3
3 Days Ago Flow (SCF)	174873	Reset Date	11/21/08
4 Days Ago Flow (SCF)	175413		
5 Days Ago Flow (SCF)	176087	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	176042	Area #**1** LEL	3
7 Days Ago Flow (SCF)	174811	Area #**2** LEL	0

Date And Time			
Date	4/3/13	Time	7:18:17

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/4/13	**Time**	7:03
Technician	JM	Wind Speed/Direction	5 WNW
Ambient Temperature (°F)	33	Barometric Pressure (in Hg)	30.24
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION					
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)		20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)		.4
Methane (% Vol)	18.6	19.0	Nitrogen Pressure (psi)		1600
Carbon Dioxide (% Vol)	16.9	16.8	Blower Inlet Valve (% Open)		30
Oxygen (% Vol)	1.6	.7	Blower Inlet Temp. (°F)		52
Balance Gas (% Vol)	63	64.8	Blower Inlet Vacuum (in WC)		39
Inlet Vacuum (in WC)		-9.22	Blower Discharge Temp. (°F)		100
			Blower Discharge Pressure (in WC)		1.4

FLARE STATION		
Flare Inlet Pressure (in WC)	+.90	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	66	Top Flare Temp. (°F)	1406
Flow Rate (SCFM)	119	Middle Flare Temp. (°F)	1473
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1509
Blower Current (Amps)	6.2	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1417	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1477	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1509	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	121
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	144828
Blower **302** Current (**Amps**)	6.2	Total Flow (SCF)	305162713
Blower **302** Current (**Hours**)	32923		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	172401	Resettable Total Flow (SCF)	194478558
2 Days Ago Flow (SCF)	173457	Reset Time	11:33:3
3 Days Ago Flow (SCF)	170733	Reset Date	11/21/08
4 Days Ago Flow (SCF)	174873		
5 Days Ago Flow (SCF)	175413	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	176087	Area #1 LEL	3
7 Days Ago Flow (SCF)	176042	Area #2 LEL	0

Date And Time			
Date	4/4/13	Time	7:13

4248991
4146196

KEY
°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/5/13	**Time**	7:01
Technician	JM	Wind Speed/Direction	7 S
Ambient Temperature (°F)	40	Barometric Pressure (in Hg)	29.82
Weather	~~cloudy~~ OVERCAST	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	.5
Methane (% Vol)	20.0		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.7		Blower Inlet Temp. (°F)	54
Balance Gas (% Vol)	61.4		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	8.11		Blower Discharge Temp. (°F)	102
			Blower Discharge Pressure (in WC)	2.7

FLARE STATION		
Flare Inlet Pressure (in WC)	+.92	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.6	Top Flare Temp. (°F)	1423
Flow Rate (SCFM)	122	Middle Flare Temp. (°F)	1486
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1518
Blower Current (Amps)	6.2	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1423	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1485	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1519	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	122
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45277
Blower **302** Current (**Amps**)	6.2	Total Flow (SCF)	3 05-337609
Blower **302** Current (**Hours**)	32947		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	DID 174447	Resettable Total Flow (SCF)	194653334
2 Days Ago Flow (SCF)	172401	Reset Time	11:33:3
3 Days Ago Flow (SCF)	173457	Reset Date	11/21/08
4 Days Ago Flow (SCF)	170733		
5 Days Ago Flow (SCF)	174873	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	175413	Area #1 LEL	3
7 Days Ago Flow (SCF)	176087	Area #2 LEL	0

Date And Time			
Date	4/5/13	Time	7:14

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/8/13	**Time**	7:17
Technician	JM	Wind Speed/Direction	6 SW
Ambient Temperature (°F)	45	Barometric Pressure (in Hg)	29.91
Weather	sun/clouds.	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	20.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.9		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	56
Balance Gas (% Vol)	61.3		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	8.48		Blower Discharge Temp. (°F)	108
			Blower Discharge Pressure (in WC)	2.9

FLARE STATION		
Flare Inlet Pressure (in WC)	+ 1.11	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.1	Top Flare Temp. (°F)	1373
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1500
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1558
Blower Current (Amps)	6.2	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1379	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1500	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1557	Control Mode	Auto
Area LEL (%)	2		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	121
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	46585
Blower **302** Current (**Amps**)	6.1	Total Flow (SCF)	3058555847
Blower **302** Current (**Hours**)	33020		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	173766	Resettable Total Flow (SCF)	195171692
2 Days Ago Flow (SCF)	170596	Reset Time	11:33:3
3 Days Ago Flow (SCF)	172568	Reset Date	11/21/08
4 Days Ago Flow (SCF)	174447		
5 Days Ago Flow (SCF)	172401	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	173457	Area #1 LEL	2
7 Days Ago Flow (SCF)	170733	Area #2 LEL	0

Date And Time			
Date	4/8/13	Time	7:28

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/9/13	**Time**	6:53
Technician	JM	Wind Speed/Direction	CALM
Ambient Temperature (°F)	48	Barometric Pressure (in Hg)	29.97
Weather	sun/clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.3
Methane (% Vol)	20.4		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	60
Balance Gas (% Vol)	61.0		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	7.62		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.10	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.0	Top Flare Temp. (°F)	1318
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1504
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1562
Blower Current (Amps)	6.1	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1324	Louver Position (% Closed)	89
Flare Middle Temp. (°F)	1508	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1563	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	110
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	40981
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	3060/5502
Blower **302** Current **(Hours)**	33043		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	165259	Resettable Total Flow (SCF)	1953331340
2 Days Ago Flow (SCF)	173766	Reset Time	1133:3
3 Days Ago Flow (SCF)	170596	Reset Date	11/21/08
4 Days Ago Flow (SCF)	172568		
5 Days Ago Flow (SCF)	174447	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	172401	Area **#1** LEL	3
7 Days Ago Flow (SCF)	173457	Area **#2** LEL	0

Date And Time			
Date	Tues 4/9/13	Time	7:04

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/10/13	**Time**	6:51
Technician	JM	Wind Speed/Direction	7 NNE
Ambient Temperature (°F)	55	Barometric Pressure (in Hg)	29.77
Weather	Sun/clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.2
Methane (% Vol)	20.1		Nitrogen Pressure (psi)	1690
Carbon Dioxide (% Vol)	17.9		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	64
Balance Gas (% Vol)	61.4		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.65		Blower Discharge Temp. (°F)	112
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	+107	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.4	Top Flare Temp. (°F)	1412
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1497
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1545
Blower Current (Amps)	6.0	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1409	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1494	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1545	Control Mode	Auto
Area LEL (%)	2		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	111
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	39710
Blower **302** Current (**Amps**)	6.0	Total Flow (SCF)	306174355
Blower **302** Current (**Hours**)	33067		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	160124	Resettable Total Flow (SCF)	195490192
2 Days Ago Flow (SCF)	165259	Reset Time	11:33:3
3 Days Ago Flow (SCF)	173766	Reset Date	11/21/08
4 Days Ago Flow (SCF)	170596		
5 Days Ago Flow (SCF)	172568	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	174447	Area #1 LEL	2
7 Days Ago Flow (SCF)	172401	Area #2 LEL	0

Date And Time			
Date	4/10/13	Time	6:58

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/11/13	**Time**	725
Technician	JM	Wind Speed/Direction	8 N
Ambient Temperature (°F)	55	Barometric Pressure (in Hg)	29.75
Weather	sun/clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2+0
Methane (% Vol)	19.9		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	64
Balance Gas (% Vol)	61.7		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	7.85		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	1.8

FLARE STATION		
Flare Inlet Pressure (in WC)	~~1.85~~ +1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	~~10.0~~ 9.5	Top Flare Temp. (°F)	1423
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1495
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1527
Blower Current (Amps)	6.2	Controlling Thermocouple	~~BT~~ middle
Flare Top Temp. (°F)	1424	Louver Position (% Closed)	~~1580~~ 89
Flare Middle Temp. (°F)	1497	Control Temperature (SP)	~~1600~~ 1500
Flare Bottom Temp. (°F)	1528	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	109
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	43532
Blower **302** Current (**Amps**)	6.1	Total Flow (SCF)	306357828
Blower **302** Current (**Hours**)	33092		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	154051	Resettable Total Flow (SCF)	195653667
2 Days Ago Flow (SCF)	160124	Reset Time	11:33:3
3 Days Ago Flow (SCF)	165259	Reset Date	11/21/08
4 Days Ago Flow (SCF)	173766		
5 Days Ago Flow (SCF)	170596	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	172568	Area **#1** LEL	3
7 Days Ago Flow (SCF)	174447	Area **#2** LEL	0

Date And Time			
Date	~~7/04~~ 4/11/13	Time	734

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/12/13	**Time**	6:45
Technician	BM	Wind Speed/Direction	28 ENE
Ambient Temperature (°F)	44	Barometric Pressure (in Hg)	29.82
Weather	Showers	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	20.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	58
Balance Gas (% Vol)	61.8		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.2		Blower Discharge Temp. (°F)	90
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	TRACE	1.02
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.0	Top Flare Temp. (°F)	1444
Flow Rate (SCFM)	121	Middle Flare Temp. (°F)	1493
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1516
Blower Current (Amps)	6.2	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1444	Louver Position (% Closed)	95-90
Flare Middle Temp. (°F)	1489	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1514	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	125
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	41498
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	306497231
Blower **302** Current **(Hours)**	3315		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	186437	Resettable Total Flow (SCF)	1958/2956
2 Days Ago Flow (SCF)	159651	Reset Time	11:33:3
3 Days Ago Flow (SCF)	160124	Reset Date	11/21/08
4 Days Ago Flow (SCF)	165259		
5 Days Ago Flow (SCF)	173766	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	170596	Area #1 LEL	3
7 Days Ago Flow (SCF)	172568	Area #2 LEL	0

Date And Time			
Date	4/12/13	Time	6:52:48

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/15/13	**Time**	7:28
Technician	TM	Wind Speed/Direction	5 ENE
Ambient Temperature (°F)	45	Barometric Pressure (in Hg)	30.20
Weather	Overcast	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.7		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.8		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	58
Balance Gas (% Vol)	62.9		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	8.16		Blower Discharge Temp. (°F)	106
			Blower Discharge Pressure (in WC)	1.75

FLARE STATION		
Flare Inlet Pressure (in WC)	11.13	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.0	Top Flare Temp. (°F)	1421
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1486
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1519
Blower Current (Amps)	6.2	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1427	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1488	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1520	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	47413
Blower **302** Current **(Amps)**	6.3	Total Flow (SCF)	3070122
Blower **302** Current **(Hours)**	33188		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	170455	Resettable Total Flow (SCF)	1963284447
2 Days Ago Flow (SCF)	169862	Reset Time	11:33:3
3 Days Ago Flow (SCF)	169259	Reset Date	11/24/08
4 Days Ago Flow (SCF)	161437		
5 Days Ago Flow (SCF)	159651	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160124	Area #1 LEL	3
7 Days Ago Flow (SCF)	165259	Area #2 LEL	0

Date And Time			
Date	4/15/13	Time	7:35

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/16/13	**Time**	7:22
Technician	JM	Wind Speed/Direction	11 SE
Ambient Temperature (°F)	50.	Barometric Pressure (in Hg)	30.20
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.8
Methane (% Vol)	19.2		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.7		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	60
Balance Gas (% Vol)	62.5		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-7.78		Blower Discharge Temp. (°F)	108
			Blower Discharge Pressure (in WC)	2.3

FLARE STATION		
Flare Inlet Pressure (in WC)	+1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	10.2	Top Flare Temp. (°F)	1426
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1492
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1541
Blower Current (Amps)	6.2	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1426	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1488	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1538	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	119
Blower **301** Current **(Hours)**	20506	Today's Total Flow (SCF)	46957
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	30718492-8
Blower **302** Current **(Hours)**	33242		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	172602	Resettable Total Flow (SCF)	196500773
2 Days Ago Flow (SCF)	170455	Reset Time	11:33:3
3 Days Ago Flow (SCF)	169862	Reset Date	11/21/08
4 Days Ago Flow (SCF)	169259		
5 Days Ago Flow (SCF)	161437	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159651	Area #1 LEL	3
7 Days Ago Flow (SCF)	160124	Area #2 LEL	0

Date And Time			
Date	7:31 4/16/13	Time	

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/17/13	**Time**	9:06
Technician		Wind Speed/Direction	10 N
Ambient Temperature (°F)	55	Barometric Pressure (in Hg)	30.11
Weather	MOSTLY CLOUDY	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	19.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.3		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	62
Balance Gas (% Vol)	63.0		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	7.66		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	3.4

FLARE STATION		
Flare Inlet Pressure (in WC)	1.23	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.2	Top Flare Temp. (°F)	1426
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1490
LFG Oxygen (%)	0.8	Bottom Flare Temp. (°F)	1524
Blower Current (Amps)	6.2	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1429	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1495	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1528	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	112
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	55373
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	307364372
Blower **302** Current **(Hours)**	33237		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	171008	Resettable Total Flow (SCF)	196680211
2 Days Ago Flow (SCF)	172662	Reset Time	11:33:3
3 Days Ago Flow (SCF)	170415	Reset Date	11/21/08
4 Days Ago Flow (SCF)	169862		
5 Days Ago Flow (SCF)	169259	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	161437	Area #1 LEL	3
7 Days Ago Flow (SCF)	159657	Area #2 LEL	0

Date And Time			
Date	4/17/13	Time	9:13

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4-18-13	**Time**	7:49
Technician	EEM	Wind Speed/Direction	14 E
Ambient Temperature (°F)	52	Barometric Pressure (in Hg)	30.18
Weather	Scattered Clouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	0.8
Methane (% Vol)	18.7		Nitrogen Pressure (psi)	99
Carbon Dioxide (% Vol)	17.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.0		Blower Inlet Temp. (°F)	63
Balance Gas (% Vol)	62.9		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-7.5		Blower Discharge Temp. (°F)	108
			Blower Discharge Pressure (in WC)	1.6

FLARE STATION	
Flare Inlet Pressure (in WC)	1.02
Flame Arrestor Differential Pressure (in WC)	0
Aux Fuel Pressure (in WC) - Natural Gas	0

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	11.8	Top Flare Temp. (°F)	1413
Flow Rate (SCFM)	120	Middle Flare Temp. (°F)	1480
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1528
Blower Current (Amps)	6.1	Controlling Thermocouple	MID
Flare Top Temp. (°F)	1415	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1478	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1527	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	50885
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	03 07521608
Blower **302** Current **(Hours)**	33260		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	161744	Resettable Total Flow (SCF)	01 96837459
2 Days Ago Flow (SCF)	171008	Reset Time	11:33:3
3 Days Ago Flow (SCF)	172662	Reset Date	11/21/08
4 Days Ago Flow (SCF)	170455		
5 Days Ago Flow (SCF)	169862	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	169259	Area #1 LEL	3
7 Days Ago Flow (SCF)	161437	Area #2 LEL	0

Date And Time			
Date	18-APR-13	Time	7:17:20

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4-19-13	**Time**	8:15AM
Technician	EEM	Wind Speed/Direction	15 S
Ambient Temperature (°F)	54	Barometric Pressure (in Hg)	29.82
Weather	FOG / LIGHT DRIZZLE	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	19.3		Nitrogen Pressure (psi)	~~40~~ 1600
Carbon Dioxide (% Vol)	17.6		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.1		Blower Inlet Temp. (°F)	63
Balance Gas (% Vol)	62.0		Blower Inlet Vacuum (in WC)	39
Inlet Vacuum (in WC)	-7.7		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)		-0.9
Flame Arrestor Differential Pressure (in WC)		0
Aux Fuel Pressure (in WC) - Natural Gas		0

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	14.8	Top Flare Temp. (°F)	1427
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1490
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1513
Blower Current (Amps)	6.1	Controlling Thermocouple	MID
Flare Top Temp. (°F)	1430	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1493	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1515	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	114
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	50750
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	03 07688895
Blower **302** Current **(Hours)**	33285		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	167309	Resettable Total Flow (SCF)	01 97004733
2 Days Ago Flow (SCF)	161744	Reset Time	11:33:3
3 Days Ago Flow (SCF)	171008	Reset Date	11/21/08
4 Days Ago Flow (SCF)	172662		
5 Days Ago Flow (SCF)	170455	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	169862	Area #1 LEL	3
7 Days Ago Flow (SCF)	169259	Area #2 LEL	0

Date And Time			
Date	7:33:23	Time	19-APR-13

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/22/13	**Time**	7:47
Technician	JM	Wind Speed/Direction	11 ENE
Ambient Temperature (°F)	45	Barometric Pressure (in Hg)	30.49
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	17.7		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.6		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.8		Blower Inlet Temp. (°F)	58
Balance Gas (% Vol)	63.9		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	8.27		Blower Discharge Temp. (°F)	102
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.06	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	10.7	Top Flare Temp. (°F)	1420
Flow Rate (SCFM)	120	Middle Flare Temp. (°F)	1480
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1497
Blower Current (Amps)	6.3	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1420	Louver Position (% Closed)	94
Flare Middle Temp. (°F)	1481	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1498	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	50234
Blower **302** Current **(Amps)**	6.3	Total Flow (SCF)	3 05177457
Blower **302** Current **(Hours)**	33356		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	168740	Resettable Total Flow (SCF)	19749330 1
2 Days Ago Flow (SCF)	159697	Reset Time	11:33:3
3 Days Ago Flow (SCF)	160637	Reset Date	11/21/08
4 Days Ago Flow (SCF)	167309		
5 Days Ago Flow (SCF)	161744	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	171008	Area #1 LEL	3
7 Days Ago Flow (SCF)	172662	Area #2 LEL	0

Date And Time			
Date	4/22/13	Time	7:57

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/23/13	**Time**	6:15
Technician	JM	Wind Speed/Direction	15 NE
Ambient Temperature (°F)	42	Barometric Pressure (in Hg)	30.21
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.8
Methane (% Vol)	18.8		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	~~18.8~~ 18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.~~0~~7		Blower Inlet Temp. (°F)	58
Balance Gas (% Vol)	62.5		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.92		Blower Discharge Temp. (°F)	100
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.9	Top Flare Temp. (°F)	1417
Flow Rate (SCFM)	124	Middle Flare Temp. (°F)	1488
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1572
Blower Current (Amps)	6.1	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1417	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1487	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1511	Control Mode	Auto
Area LEL (%)	4		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	118
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	38092
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	3 083383 79
Blower **302** Current **(Hours)**	33379		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	172281	Resettable Total Flow (SCF)	19765 4224
2 Days Ago Flow (SCF)	168740	Reset Time	11:33:3
3 Days Ago Flow (SCF)	159697	Reset Date	11/21/08
4 Days Ago Flow (SCF)	160637		
5 Days Ago Flow (SCF)	167309	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	161744	Area #1 LEL	4
7 Days Ago Flow (SCF)	171008	Area #2 LEL	0

Date And Time			
Date	6:23	Time	

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/24/13	**Time**	7:50
Technician	JM	Wind Speed/Direction	6 NW
Ambient Temperature (°F)	50	Barometric Pressure (in Hg)	29.91
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	19.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	60
Balance Gas (% Vol)	62.0		Blower Inlet Vacuum (in WC)	33
Inlet Vacuum (in WC)	7.78		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	2.75

FLARE STATION		
Flare Inlet Pressure (in WC)	~~10~~ 107	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	11.8	Top Flare Temp. (°F)	1376
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1502
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1560
Blower Current (Amps)	61	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1377	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1502	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1560	Control Mode	Auto
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	113
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	47467
Blower **302** Current (**Amps**)	62	Total Flow (SCF)	3 085 6068
Blower **302** Current (**Hours**)	3304		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	169214	Resettable Total Flow (SCF)	19783907
2 Days Ago Flow (SCF)	172281	Reset Time	11:33:3
3 Days Ago Flow (SCF)	168740	Reset Date	11/21/08
4 Days Ago Flow (SCF)	159697		
5 Days Ago Flow (SCF)	160 631	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	167309	Area #1 LEL	3
7 Days Ago Flow (SCF)	161744	Area #2 LEL	0

Date And Time			
Date	4/24/13	Time	7:59

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/25/13	**Time**	6:38
Technician	JM	Wind Speed/Direction	20 NW
Ambient Temperature (°F)	47	Barometric Pressure (in Hg)	29.95
Weather	Sunclouds	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1
Methane (% Vol)	18.2		Nitrogen Pressure (psi)	1609
Carbon Dioxide (% Vol)	17.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.9		Blower Inlet Temp. (°F)	60
Balance Gas (% Vol)	63.4		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	8.73		Blower Discharge Temp. (°F)	104
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.0	NOTE: FDNY INSPECTION
Flame Arrestor Differential Pressure (in WC)	0	LEL SENSOR MALFUNCTION
Aux Fuel Pressure (in WC) - Natural Gas	0	WOULD NOT RESET AFTER
		INSPECTION. PERFORMED
		CAL & REPAIR.

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.7	Top Flare Temp. (°F)	1373
Flow Rate (SCFM)	113	Middle Flare Temp. (°F)	1486
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1533
Blower Current (Amps)	6.1	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1374	Louver Position (% Closed)	96
Flare Middle Temp. (°F)	1483	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1529	Control Mode	AUTO
Area LEL (%)	3		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	111
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	38343
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	3 085669189
Blower **302** Current **(Hours)**	33427		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162245	Resettable Total Flow (SCF)	197985024
2 Days Ago Flow (SCF)	169214	Reset Time	11:33:3
3 Days Ago Flow (SCF)	172281	Reset Date	11/21/08
4 Days Ago Flow (SCF)	168740		
5 Days Ago Flow (SCF)	159697	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160637	Area #1 LEL	3
7 Days Ago Flow (SCF)	167309	Area #2 LEL	0

Date And Time			
Date	4/25/13	Time	6:45

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/26/13		**Time**	7:40	
Technician	JM	Wind Speed/Direction		11 NNW	
Ambient Temperature (°F)	55		Barometric Pressure (in Hg)		30.19
Weather	SUN		**GEM I.D.**	**9087**	

BLOWER STATION				
Blowers Status **301** (circle)	~~On~~	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	~~Off~~	Demister Differential Pressure (in WC)	1
Methane (% Vol)	17.6		Nitrogen Pressure (psi)	600
Carbon Dioxide (% Vol)	17.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.0		Blower Inlet Temp. (°F)	62
Balance Gas (% Vol)	63.7		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	6.65		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.04	
Flame Arrestor Differential Pressure (in WC)	8	
Aux Fuel Pressure (in WC) - Natural Gas		

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.9	Top Flare Temp. (°F)	1426
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1497
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1545
Blower Current (Amps)	6.2	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1428	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1502	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1547	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	114
Blower **301** Current **(Hours)**	20886	Today's Total Flow (SCF)	46876
Blower **302** Current **(Amps)**	6.2	Total Flow (SCF)	3 058806684
Blower **302** Current **(Hours)**	33447		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	128962	Resettable Total Flow (SCF)	198122579
2 Days Ago Flow (SCF)	162245	Reset Time	11:33:3
3 Days Ago Flow (SCF)	169214	Reset Date	11/21/08
4 Days Ago Flow (SCF)	172281		
5 Days Ago Flow (SCF)	168740	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159697	Area #1 LEL	0
7 Days Ago Flow (SCF)	160637	Area #2 LEL	0

Date And Time			
Date	4/26/13	Time	7:49

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/29/13	**Time**	7:09
Technician	JM	Wind Speed/Direction	9 SE
Ambient Temperature (°F)	52	Barometric Pressure (in Hg)	30.21
Weather	Showers	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.8
Methane (% Vol)	19.4		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	64
Balance Gas (% Vol)	61.9		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	8.14		Blower Discharge Temp. (°F)	112
			Blower Discharge Pressure (in WC)	2.3

FLARE STATION		
Flare Inlet Pressure (in WC)	1.0	
Flame Arrestor Differential Pressure (in WC)	8	
Aux Fuel Pressure (in WC) - Natural Gas	8	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.1	Top Flare Temp. (°F)	1425
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1497
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1538
Blower Current (Amps)	6.1	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1423	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1495	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1536	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	110
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	142246
Blower **302** Current (**Amps**)	6.1	Total Flow (SCF)	309295157
Blower **302** Current (**Hours**)	33518		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	161982	Resettable Total Flow (SCF)	19861098
2 Days Ago Flow (SCF)	165074	Reset Time	11:33:3
3 Days Ago Flow (SCF)	166041	Reset Date	11/21/08
4 Days Ago Flow (SCF)	128962		
5 Days Ago Flow (SCF)	162245	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	169214	Area #1 LEL	0
7 Days Ago Flow (SCF)	172281	Area #2 LEL	0

Date And Time			
Date	4/29/13	Time	7:16

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	4/30/13	**Time**	6:48
Technician	JM	Wind Speed/Direction	5 NE
Ambient Temperature (°F)	53	Barometric Pressure (in Hg)	30.24
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	18.4	19.31	Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.6	18.2	Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.2	0.02	Blower Inlet Temp. (°F)	64
Balance Gas (% Vol)	62.7	62.49	Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)		8.28	Blower Discharge Temp. (°F)	112
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	+ 1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.8	Top Flare Temp. (°F)	1420
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1499
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1548
Blower Current (Amps)	6.1	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1418	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1498	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1546	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20886	Today's Total Flow (SCF)	42907
Blower **302** Current **(Amps)**	6.0	Total Flow (SCF)	309463941
Blower **302** Current **(Hours)**	33542		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	168127	Resettable Total Flow (SCF)	198779786
2 Days Ago Flow (SCF)	161982	Reset Time	11:33:3
3 Days Ago Flow (SCF)	165074	Reset Date	11/21/08
4 Days Ago Flow (SCF)	166041		
5 Days Ago Flow (SCF)	128962	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162245	Area #1 LEL	0
7 Days Ago Flow (SCF)	169214	Area #2 LEL	0

Date And Time			
Date	4/30/13	Time	6 7:01

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

4/1/13

04/01/2013 6:24 AM

PRODUCT INVENTORY DETAIL

PROD 1 2385.0 GAL

TANK 1

GROSS	1382.7 GAL
NET	1390.7 GAL
DAYS SUPPLY	UNKNOWN
ULLAGE	983.1 GAL
WATER VOLUME	0.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

4/2/13

04/02/2013 7:02 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1387.4 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/03/2013 6:19 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1390.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/04/2013 6:14 AM

TANK INVENTORY SUMMARY

4/4/13

(GROSS VOLUME)

TANK 1 1393.4 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/05/2013 6:10 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1396.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/08/2013 7:24 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1404.9 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/09/2013 7:.. AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1407.3 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/10/2013 6:54 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1410.3 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/11/2013 7:30 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1412.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/12/2013 6:49 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1416.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/15/2013 7:31 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1424.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/16/2013 7:27 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1426.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/17/2013 9:10 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1429.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/18/2013 8:08 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1431.6 GAL

4-22-13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/22/2013 7:52 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1440.6 GAL

4-23-13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/23/2013 6:21 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1442.8 GAL

4-24-13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/24/2013 7:54 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1445.4 GAL

4-25-13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/25/2013 6:42 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1446.1 GAL

4-26-13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/26/2013 7:44 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1447.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/29/2013 7:13 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1452.9 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

04/30/2013 6:58 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1454.8 GAL

PENNSYLVANIA AVENUE LANDFILL			Month: **MAY**									Year: **2013**			**LFG-1**
			Process Overview (YIC-1 From Main Menu Screen)									**Flow & Totalizer**			
DATE	TIME	Hours On Line	Landfill Vacuum (in WC)	Flow Rate (SCFM)	LFG Oxygen (%)	Blower Current (Amps)	Flare Top Temp. (ºF)	Flare Middle Temp. (ºF)	Flare Bottom Temp. (ºF)	Area LEL (%)	Area **#1** LEL	Area **#2** LEL	Current Flow (SCFM)	Today's Total Flow (SCF)	Total Flow (SCF)	Yesterday's Flow (SCF)
1	6:49	24	9.1	118	0	6.1	1420	1481	1523	0	0	0	118	43,559	309,634,761	170,170
2	7:45	24	12.3	122	0	6.0	1377	1486	1535	0	0	0	119	49,215	309,811,718	171,301
3	7:23	24	8.5	115	0	6.0	1419	1488	1511	0	0	0	116	44,180	309,974,756	168,073
4		24														164,578
5		24														164,492
6	12:20	24	7.3	117	0	6.0	1433	1510	1548	0	0	0	120	81,609	310,512,171	170,796
7	7:23	24	11.0	112	0	6.0	1437	1501	1542	0	0	0	115	43,651	310,641,849	167,756
8	7:43	24	7.6	113	0	5.9	1380	1515	1566	0	0	0	115	46,023	310,804,755	160,534
9	7:43	24	6.0	112	0	5.9	1416	1515	1562	0	0	0	112	45,175	310,965,585	161,678
10	7:23	24	7.5	110	0	5.9	1280	1505	1561	0	0	0	111	43,204	311,122,800	159,186
11		24														158,445
12		24														158,078
13	7:28	24	7.8	113	0	6.0	1403	1511	1551	0	0	0	112	43,893	311,597,480	157,468
14	7:57	24	8.5	115	0	6.0	1401	1502	1537	0	0	0	112	47,328	311,760,880	159,965
15	7:42	24	8.4	110	0	6.0	1448	1517	1549	0	0	0	112	45,553	311,919,610	160,505
16	7:43	24	7.1	109	0	5.9	1301	1492	1556	0	0	0	107	46,238	312,080,318	160,023
17	7:40	24	7.9	111	0	5.9	1408	1512	1568	0	0	0	107	47,148	312,239,672	158,444
18		24														158,934
19		24														161,191
20	7:34	24	13.7	116	0	5.9	1309	1489	1561	0	0	0	111	45,070	312,720,213	162,489
21	7:53	24	9.2	114	0	5.9	1355	1489	1539	0	0	0	113	46,497	312,886,000	164,360
22	7:35	24	3.0	107	0	5.9	1413	1504	1548	0	0	0	113	45,489	313,044,653	159,547
23	7:56	24	5.4	110	0	5.0	1379	1501	1548	0	0	0	115	46,565	313,204,828	159,213
24	7:19	24	2.2	114	0	5.8	1288	1496	1557	0	0	0	106	42,672	313,360,324	159,389
25		24														160,410
26		24														162,854
27		24														162,442
28	7:42	24	9.7	112	0	5.9	1417	1484	1512	0	0	0	112	46,579	314,012,829	162,882
29	7:02	24	10.8	117	0	5.8	1382	1505	1570	0	0	0	114	41,978	314,171,831	163,603
30	7:45	24	11.0	108	0	5.8	1404	1505	1538	0	0	0	111	46,159	314,338,870	162,858
31	8:23	24	10.1	112	0	5.7	1307	1493	1552	0	0	0	112	50,264	314,503,571	160,596
															1-Jun	160,158
															MAY 2013 Total Flow:	**5,022,248**

PENNSYLVANIA AVENUE LANDFILL										Month:	**MAY**	Year:	**2013**			**LFG-1**	
		BLOWER STATION												**Blower Data**			
DATE	TIME	Blower In Service **301** or **302**	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Balance Gas (% Vol)	Inlet Vacuum (in WC)	Demister Inlet Valve Position (% Open)	Demister Differential Pressure (in WC)	Nitrogen Pressure (psi)	Blower Inlet Valve (% Open)	Blower Inlet Temp. (ºF)	Blower Discharge Temp. (ºF)	Blower **301** Current (**Amps**)	Blower **301** Current (**Hours**)	Blower **302** Current (**Amps**)	Blower **302** Current (**Hours**)
1	6:49	302	18.2	17.5	1.1	63.2	8.4	20	2	1600	30	62	109	0.0	20806	6.1	33566
2	7:45	302	18.2	17.9	0.5	63.4	7.9	20	1.5	1600	30	54	114	0.0	20806	6.0	33591
3	7:23	302	18.3	17.8	0.0	63.8	7.6	20	1.5	1600	30	65	108	0.0	20806	6.1	33615
4																	
5																	
6	12:20	302	18.4	17.7	0.5	63.3	6.9	20	2	1600	30	68	118	0.0	20806	6.0	33692
7	7:23	302	18.5	18.0	0.6	62.9	7.2	20	2	1600	30	66	114	0.0	20806	5.9	33711
8	7:43	302	18.6	18.1	0.7		7.7	20	1.5	1600	30	58	106	0.0	20806	5.9	33735
9	7:43	302	18.7	18.2	0.7	62.4	8.1	20	2	1600	30	68	112	0.0	20806	5.9	33759
10	7:23	302	18.3	18.1	0.7	62.9	7.5	20	2	1600	30	70	120	0.0	20806	5.9	33783
11																	
12																	
13	7:28	302	17.8	18.0	0.6	63.6	7.7	20	1.5	1600	30	66	110	0.0	20806	6.0	33855
14	7:57	302	17.8	18.0	0.6	63.5	7.7	20	1.5	1600	30	66	110	0.0	20806	6.0	33879
15	7:42	302	18.4	17.9	0.7	63.1	7.0	20	2	1600	30	66	114	0.0	20806	5.9	33903
16	7:43	302	18.6	18.5	0.5	62.4		20	0.3	1600	30	70	124	0.0	20806	5.9	33927
17	7:40	302	17.6	18.5	0.4	63.5	8.1	20	0.5	1600	30	72	118	0.0	20806	5.9	33951
18																	
19																	
20	7:34	302	18.4	18.8	0.4	62.4	7.3	20	2	1600	30	70	122	0.0	20806	5.9	34023
21	7:53	302	18.1	18.1	1.0	62.8	7.0	20	2	1600	30	74	124	0.0	20806	5.8	34047
22	7:35	302	18.1	18.2	0.5	63.2	7.9	20	2	1600	30	74	117	0.0	20806	5.9	34071
23	7:56	302	17.8	17.9	0.9		7.0	20	1.5	1600	30	54	122	0.0	20806	5.8	34095
24	7:19	302	18.6	18.7	0.3	62.4	7.1	20	2	1600	30	64	124	0.0	20806	5.8	34119
25																	
26																	
27																	
28	7:42	302	17.7	18.7	0.4	63.2	6.6	20	2.5	1600	30	72	120	0.0	20806	5.9	34215
29	7:02	302	17.6	18.1	1.0	63.3	6.5	20	1.5	1600	30	70	122	0.0	20806	5.9	34238
30	7:45	302	17.3	17.9	0.6	64.2	6.2	20	1.5	1600	30	76	126	0.0	20806	5.9	34263
31	8:23	302	17.8	18.1	0.6	63.5	6.2	20	2	1600	30	80	132	0.0	20806	5.8	34288

PENNSYLVANIA AVENUE LANDFILL							Month:	**MAY**		Year:	**2013**			**LFG-1**		
		WEATHER					**FLARE TEMPERATURE**							**FLARE STATION**		
DATE	TIME	Weather	Ambient Temp (ºF)	Wind Speed	Wind Direction	Barometric Pressure (in Hg)	Top Flare Temp. (ºF)	Middle Flare Temp. (ºF)	Bottom Flare Temp. (ºF)	Controlling Thermo-couple	Louver Position (% Closed)	Control Temp. (SP)	Control Mode	Flare Inlet Pressure (in WC)	Flame Arrestor Differential Pressure (in WC)	Aux Fuel Pressure (in WC) Natural Gas
1	6:49	sun	47	7	nne	30.39	1418	1482	1522	middle	92	1500	auto	1.05	0	0
2	7:45	sun	54	5	ene	30.31	1366	1484	1534	middle	93	1500	auto	1.01	0	0
3	7:23	sun	52	8	ene	30.31	1420	1490	1513	middle	93	1500	auto	1.04	0	0
4																
5																
6	12:20	cloudy	60	9	s	30.11	1435	1514	1549	middle	93	1500	auto	1.06	0	0
7	7:23	cloudy	52	8	ene	29.99	1435	1501	1542	middle	91	1500	auto	1.01	0	0
8	7:43	rain	59	9	ene	29.92	1372	1513	1561	middle	91	1500	auto	1.02	0	0
9	7:43	showers	57	9	e	29.80	1418	1513	1556	middle	93	1500	auto	1.02	0	0
10	7:23	sun	60	10	wsw	29.85	1285	1481	1560	middle	96	1500	auto	1.08	0	0
11																
12																
13	7:28	sun	50	15	w	29.90	1391	1508	1550	middle	95	1500	auto	1.03	0	0
14	7:57	sun	48	13	nnw	29.99	1404	1501	1536	middle	95	1500	auto	1.05	0	0
15	7:42	cloudy	55	11	ssw	29.93	1447	1511	1544	middle	92	1500	auto	1.02	0	0
16	7:43	overcast	66	calm		29.63	1294	1490	1561	middle	95	1500	auto	0.99	0	0
17	7:40	cloudy	62	13	n	29.88	1408	1506	1559	middle	92	1500	auto	0.90	0	0
18																
19																
20	7:34	showers	57	calm		29.94	1305	1483	1558	middle	93	1500	auto	1.03	0	0
21	7:53	overcast	65	7	ssw	29.83	1362	1489	1536	middle	93	1500	auto	1.04	0	0
22	7:35	overcast	60	10	e	29.79	1412	1503	1548	middle	93	1500	auto	1.30	0	0
23	7:56	showers	63	9	s	29.78	1378	1504	1552	middle	94	1500	auto	1.08	0	0
24	7:19	cloudy	62	6	sw	29.59	1288	1504	1563	middle	92	1500	auto	1.00	0	0
25																
26																
27																
28	7:42	sun	61	6	ssw	30.06	1412	1478	1510	middle	93	1500	auto	1.06	0	0
29	7:02	cloudy	59	calm		29.95	1385	1501	1566	middle	91	1500	auto	1.03	0	0
30	7:45	sun	73	9	wsw	30.01	1406	1505	1540	middle	93	1500	auto	1.02	0	0
31	8:23	sun	75	8	sw											

Notes:

PENNSYLVANIA AVENUE LANDFILL
LANDFILL DAILY OPERATIONS MONTHLY REPORT
Month: MAY 2013

	Date	Landfill Gas System			Landfill - Cover & Stormwater Systems, Roads, etc.
		Hours On Line	Flare	LFG Collection - Extraction Wells	
Wednesday	1-May	24	The flare processed 5,022,248 scf of landfill gas during the month of May 2013. Supplemental natural gas was not needed during this period. The flare ran 100 % of the time, without any outages. The system operates on automatic mode, and the target temperature of 1,500°F is controlled by the middle thermocouple.	All 46 extraction wells were inspected and monitored this month.	Cleared downchute gratings and removed debris from culverts and swales.
Thursday	2-May	24			
Friday	3-May	24			Performed perimeter fence repairs.
Weekend	4-May	24		Access to the extraction wells was cleared.	Cleared and landscaped entrance, parking lots and areas around trailers and plant.
	5-May	24			
Monday	6-May	24		For details see the LFG-3 report.	Started landscaping the swales and roadsides.
Tuesday	7-May	24			
Wednesday	8-May	24			
Thursday	9-May	24			
Friday	10-May	24			
Weekend	11-May	24			
	12-May	24			
Monday	13-May	24			
Tuesday	14-May	24			
Wednesday	15-May	24			
Thursday	16-May	24			
Friday	17-May	24			
Weekend	18-May	24			
	19-May	24			
Monday	20-May	24			
Tuesday	21-May	24			
Wednesday	22-May	24			
Thursday	23-May	24			
Friday	24-May	24			
Weekend	25-May	24			
	26-May	24			
Monday	27-May	24			
Tuesday	28-May	24			
Wednesday	29-May	24			
Thursday	30-May	24			
Friday	31-May	24			

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/1/13	**Time**	6:49
Technician	JM	Wind Speed/Direction	7 NNE
Ambient Temperature (°F)	47	Barometric Pressure (in Hg)	30.39
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.2		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.1		Blower Inlet Temp. (°F)	62
Balance Gas (% Vol)	63.2		Blower Inlet Vacuum (in WC)	39
Inlet Vacuum (in WC)	8.39		Blower Discharge Temp. (°F)	109
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.05	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.1	Top Flare Temp. (°F)	1418
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1482
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1522
Blower Current (Amps)	6.1	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1420	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1481	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1523	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	118
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	43559
Blower **302** Current (**Amps**)	6.1	Total Flow (SCF)	309634761
Blower **302** Current (**Hours**)	33566		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	170170	Resettable Total Flow (SCF)	19895-0607
2 Days Ago Flow (SCF)	168127	Reset Time	11:33:3
3 Days Ago Flow (SCF)	161980	Reset Date	11/21/08
4 Days Ago Flow (SCF)	165074		
5 Days Ago Flow (SCF)	166041	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	128962	Area **#1** LEL	0
7 Days Ago Flow (SCF)	162245	Area **#2** LEL	0

Date And Time			
Date	5/1/13	Time	7:05

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/2/13	**Time**	7:45
Technician	JM	Wind Speed/Direction	5 ENE
Ambient Temperature (°F)	54	Barometric Pressure (in Hg)	30.31
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	18.2		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.69		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.65		Blower Inlet Temp. (°F)	54
Balance Gas (% Vol)	63.4		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	7.86		Blower Discharge Temp. (°F)	114
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	T1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	12.3	Top Flare Temp. (°F)	1366
Flow Rate (SCFM)	122	Middle Flare Temp. (°F)	1484
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1534
Blower Current (Amps)	6.0	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1377	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1486	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1535	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	119
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	49215
Blower **302** Current (**Amps**)	6.0	Total Flow (SCF)	309811718
Blower **302** Current (**Hours**)	33591		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	171301	Resettable Total Flow (SCF)	199127563
2 Days Ago Flow (SCF)	170170	Reset Time	1:33
3 Days Ago Flow (SCF)	168127	Reset Date	11/21/08
4 Days Ago Flow (SCF)	161982		
5 Days Ago Flow (SCF)	165074	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	166041	Area #1 LEL	0
7 Days Ago Flow (SCF)	128962	Area #2 LEL	0

Date And Time			
Date	5/2/13	Time	7:52

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/3/13	**Time**	7:23
Technician	TM	Wind Speed/Direction	8 ENE
Ambient Temperature (°F)	52	Barometric Pressure (in Hg)	30.31
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	18.3		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.8		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	.0		Blower Inlet Temp. (°F)	65
Balance Gas (% Vol)	63.8		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.64		Blower Discharge Temp. (°F)	108
			Blower Discharge Pressure (in WC)	2

FLARE STATION		
Flare Inlet Pressure (in WC)	1.04	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	85	Top Flare Temp. (°F)	1420
Flow Rate (SCFM)	115	Middle Flare Temp. (°F)	1490
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1513
Blower Current (Amps)	6.0	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1419	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1488	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1511	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	116
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	44180
Blower **302** Current **(Amps)**	6.1	Total Flow (SCF)	3049974756
Blower **302** Current **(Hours)**	33615		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	168073	Resettable Total Flow (SCF)	1992905795
2 Days Ago Flow (SCF)	171301	Reset Time	11:33:3
3 Days Ago Flow (SCF)	170170	Reset Date	11/21/08
4 Days Ago Flow (SCF)	168127		
5 Days Ago Flow (SCF)	161482	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	165074	Area #1 LEL	0
7 Days Ago Flow (SCF)	166041	Area #2 LEL	0

Date And Time			
Date	5/3/13	Time	7:34

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/6/13	**Time**	12:20
Technician	JM	Wind Speed/Direction	9 S
Ambient Temperature (°F)	60	Barometric Pressure (in Hg)	30.11
Weather	cloudy	**GEM I.D.**	**9087**

BLOWER STATION					
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	18.4		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.7		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	68
Balance Gas (% Vol)	63.3		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	6.89		Blower Discharge Temp. (°F)	118
			Blower Discharge Pressure (in WC)	4

FLARE STATION		
Flare Inlet Pressure (in WC)	+1.06	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.3	Top Flare Temp. (°F)	1435
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1514
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1549
Blower Current (Amps)	6.0	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1433	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1510	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1548	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	120
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	81609
Blower **302** Current **(Amps)**	6.0	Total Flow (SCF)	310512171
Blower **302** Current **(Hours)**	33692		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	170796	Resettable Total Flow (SCF)	199827896
2 Days Ago Flow (SCF)	164492	Reset Time	11:33
3 Days Ago Flow (SCF)	164578	Reset Date	11/21/08
4 Days Ago Flow (SCF)	168073		
5 Days Ago Flow (SCF)	171301	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	170170	Area #1 LEL	0
7 Days Ago Flow (SCF)	168127	Area #2 LEL	0

Date And Time			
Date	5/6/13	Time	12:29

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/7/13	**Time**	7:23
Technician	JM	Wind Speed/Direction	8 ENE
Ambient Temperature (°F)	52	Barometric Pressure (in Hg)	29.99
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.5		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	66
Balance Gas (% Vol)	62.9		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	7.18		Blower Discharge Temp. (°F)	114
			Blower Discharge Pressure (in WC)	2.3

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	11.0	Top Flare Temp. (°F)	1435
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1501
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1542
Blower Current (Amps)	6.0	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1437	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1501	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1542	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	115
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	43651
Blower **302** Current **(Amps)**	5.9	Total Flow (SCF)	310641849
Blower **302** Current **(Hours)**	33711		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	167756	Resettable Total Flow (SCF)	199957689
2 Days Ago Flow (SCF)	170796	Reset Time	11:33:3
3 Days Ago Flow (SCF)	164492	Reset Date	11/21/08
4 Days Ago Flow (SCF)	164578		
5 Days Ago Flow (SCF)	168073	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	171301	Area #1 LEL	0
7 Days Ago Flow (SCF)	170170	Area #2 LEL	0

Date And Time			
Date	5/7/13	Time	7:29

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/8/13	**Time**	7:43
Technician	JM	Wind Speed/Direction	9 ENE
Ambient Temperature (°F)	59	Barometric Pressure (in Hg)	29.92
Weather	RAIN / T-STORM	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	66		Nitrogen Pressure (psi)	600
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	58
Balance Gas (% Vol)			Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	7.72		Blower Discharge Temp. (°F)	106
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	76	Top Flare Temp. (°F)	1377
Flow Rate (SCFM)	113	Middle Flare Temp. (°F)	1513
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1561
Blower Current (Amps)	5.9	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1380	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1515	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1566	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	115
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	46023
Blower **302** Current **(Amps)**	5.9	Total Flow (SCF)	31080455
Blower **302** Current **(Hours)**	33735		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	160534	Resettable Total Flow (SCF)	2001205 95
2 Days Ago Flow (SCF)	167756	Reset Time	1:33:3
3 Days Ago Flow (SCF)	170796	Reset Date	11/21/08
4 Days Ago Flow (SCF)	164492		
5 Days Ago Flow (SCF)	164578	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	168073	Area #1 LEL	0
7 Days Ago Flow (SCF)	171301	Area #2 LEL	0

Date And Time			
Date	5/8/13	Time	7:47

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/9/13	**Time**	7:43
Technician	JM	Wind Speed/Direction	9 E
Ambient Temperature (°F)	57	Barometric Pressure (in Hg)	29.80
Weather	Showers	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.7		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	68
Balance Gas (% Vol)	62.4		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-8.14		Blower Discharge Temp. (°F)	112
			Blower Discharge Pressure (in WC)	2.3

FLARE STATION		
Flare Inlet Pressure (in WC)	+1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.0	Top Flare Temp. (°F)	1418
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1573
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1556
Blower Current (Amps)	59	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1416	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1515	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1562	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	112
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	45175
Blower **302** Current **(Amps)**	59	Total Flow (SCF)	310965585
Blower **302** Current **(Hours)**	33759		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	161678	Resettable Total Flow (SCF)	200281720
2 Days Ago Flow (SCF)	160534	Reset Time	11:33:3
3 Days Ago Flow (SCF)	167756	Reset Date	11/21/08
4 Days Ago Flow (SCF)	176796		
5 Days Ago Flow (SCF)	164492	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	164578	Area #1 LEL	0
7 Days Ago Flow (SCF)	168073	Area #2 LEL	0

Date And Time			
Date	5/9/13	Time	7:48

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/10/13	**Time**	7:23
Technician	SM	Wind Speed/Direction	10 WSW
Ambient Temperature (°F)	60	Barometric Pressure (in Hg)	29.85
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.3		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	70
Balance Gas (% Vol)	62.9		Blower Inlet Vacuum (in WC)	40
Inlet Vacuum (in WC)	7.47		Blower Discharge Temp. (°F)	120
			Blower Discharge Pressure (in WC)	2.7

FLARE STATION		
Flare Inlet Pressure (in WC)	1.08	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.5	Top Flare Temp. (°F)	1285
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1481
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1560
Blower Current (Amps)	5.9	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1280	Louver Position (% Closed)	96
Flare Middle Temp. (°F)	1505	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1561	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	111
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	43204
Blower **302** Current **(Amps)**	5.9	Total Flow (SCF)	311225800
Blower **302** Current **(Hours)**	33783		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159180	Resettable Total Flow (SCF)	200438634
2 Days Ago Flow (SCF)	161078	Reset Time	11:33:3
3 Days Ago Flow (SCF)	160534	Reset Date	11/21/08
4 Days Ago Flow (SCF)	167756		
5 Days Ago Flow (SCF)	170796	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	164492	Area #1 LEL	0
7 Days Ago Flow (SCF)	164578	Area #2 LEL	0

Date And Time			
Date	5/10/13	Time	7:31

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/13/13	**Time**	7:28
Technician	JM	Wind Speed/Direction	15 W
Ambient Temperature (°F)	50	Barometric Pressure (in Hg)	29.90
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	17.8		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	66
Balance Gas (% Vol)	63.6		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	7.67		Blower Discharge Temp. (°F)	110
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.03	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.8	Top Flare Temp. (°F)	1391
Flow Rate (SCFM)	113	Middle Flare Temp. (°F)	1508
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1550
Blower Current (Amps)	6.0	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1403	Louver Position (% Closed)	95
Flare Middle Temp. (°F)	1511	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1551	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	112
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	43893
Blower **302** Current **(Amps)**	6.0	Total Flow (SCF)	311597480
Blower **302** Current **(Hours)**	33855		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	157468	Resettable Total Flow (SCF)	200913313
2 Days Ago Flow (SCF)	158078	Reset Time	11:33:3
3 Days Ago Flow (SCF)	158445	Reset Date	11/21/08
4 Days Ago Flow (SCF)	159186		
5 Days Ago Flow (SCF)	161678	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160534	Area #1 LEL	0
7 Days Ago Flow (SCF)	167756	Area #2 LEL	0

Date And Time			
Date	5/13/13	Time	7:36

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/14/13		**Time**	7:57	
Technician	JM	Wind Speed/Direction		13 NNW	
Ambient Temperature (°F)	48	Barometric Pressure (in Hg)		29.99	
Weather	Sun		**GEM I.D.**	**9087**	

BLOWER STATION					
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20	
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	15	
Methane (% Vol)	17.8		Nitrogen Pressure (psi)	1600	
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30	
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	66	
Balance Gas (% Vol)	63.5		Blower Inlet Vacuum (in WC)	37	
Inlet Vacuum (in WC)	7.68		Blower Discharge Temp. (°F)	110	
			Blower Discharge Pressure (in WC)	2.0	

FLARE STATION		
Flare Inlet Pressure (in WC)	1.05	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.5	Top Flare Temp. (°F)	1404
Flow Rate (SCFM)	115	Middle Flare Temp. (°F)	1501
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1536
Blower Current (Amps)	6.0	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1401	Louver Position (% Closed)	95
Flare Middle Temp. (°F)	1502	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1537	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	112
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	47328
Blower **302** Current **(Amps)**	6.0	Total Flow (SCF)	3 11760850
Blower **302** Current **(Hours)**	33879		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159965	Resettable Total Flow (SCF)	20107620
2 Days Ago Flow (SCF)	157468	Reset Time	11:33:3
3 Days Ago Flow (SCF)	158078	Reset Date	11/21/08
4 Days Ago Flow (SCF)	158445		
5 Days Ago Flow (SCF)	159186	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	191678	Area **#1** LEL	0
7 Days Ago Flow (SCF)	160534	Area **#2** LEL	0

Date And Time			
Date	5/14/13	Time	8:04

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/15/13	**Time**	7:42
Technician	JM	Wind Speed/Direction	11 SSW
Ambient Temperature (°F)	55	Barometric Pressure (in Hg)	29.93
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.4		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.9		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	66
Balance Gas (% Vol)	63.1		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-7.03		Blower Discharge Temp. (°F)	114
			Blower Discharge Pressure (in WC)	2.4

FLARE STATION		
Flare Inlet Pressure (in WC)	1.02	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	8.4	Top Flare Temp. (°F)	1447
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1571
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1544
Blower Current (Amps)	6.0	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1448	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1571	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1544	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45553
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	311919610
Blower **302** Current (**Hours**)	33903		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	160505	Resettable Total Flow (SCF)	201235447
2 Days Ago Flow (SCF)	159965	Reset Time	11:33:3
3 Days Ago Flow (SCF)	157468	Reset Date	11/21/08
4 Days Ago Flow (SCF)	158078		
5 Days Ago Flow (SCF)	158445	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159186	Area #1 LEL	0
7 Days Ago Flow (SCF)	161678	Area #2 LEL	0

Date And Time			
Date	5/15/13	Time	7:49

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5-16-13	**Time**	7:43AM
Technician	EE McLEAN	Wind Speed/Direction	CALM
Ambient Temperature (°F)	66	Barometric Pressure (in Hg)	29.63
Weather	Overcast	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	0.3
Methane (% Vol)	18.6		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	70
Balance Gas (% Vol)	62.4		Blower Inlet Vacuum (in WC)	35
Inlet Vacuum (in WC)	(14.69)		Blower Discharge Temp. (°F)	124
TOOK DOWN WRONG DATA	X		Blower Discharge Pressure (in WC)	3

FLARE STATION		
Flare Inlet Pressure (in WC)	0.99	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.1	Top Flare Temp. (°F)	1294
Flow Rate (SCFM)	109	Middle Flare Temp. (°F)	1490
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1561
Blower Current (Amps)	5.9	Controlling Thermocouple	MIDDLE
Flare Top Temp. (°F)	1301	Louver Position (% Closed)	95
Flare Middle Temp. (°F)	1492	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1556	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	107
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	46238
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	03 12080318
Blower **302** Current (**Hours**)	33927		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	160023	Resettable Total Flow (SCF)	02 01396261
2 Days Ago Flow (SCF)	160505	Reset Time	11:33:3
3 Days Ago Flow (SCF)	159965	Reset Date	11/21/08
4 Days Ago Flow (SCF)	157468		
5 Days Ago Flow (SCF)	158078	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	158445	Area #**1** LEL	0
7 Days Ago Flow (SCF)	159186	Area #**2** LEL	0

Date And Time			
Date	16-MAY-13	Time	7:01:12

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5-17-13	**Time**	7:40
Technician	EE McLEAN	Wind Speed/Direction	13 N
Ambient Temperature (°F)	62	Barometric Pressure (in Hg)	29.88
Weather	Mostly Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	0.5
Methane (% Vol)	17.6		Nitrogen Pressure (psi)	100
Carbon Dioxide (% Vol)	18.5		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	72
Balance Gas (% Vol)	63.5		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	-8.1		Blower Discharge Temp. (°F)	118
			Blower Discharge Pressure (in WC)	1.6

FLARE STATION		
Flare Inlet Pressure (in WC)	0.9	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.9	Top Flare Temp. (°F)	1408
Flow Rate (SCFM)	111	Middle Flare Temp. (°F)	1506
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1559
Blower Current (Amps)	5.9	Controlling Thermocouple	MIDDLE
Flare Top Temp. (°F)	1408	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1512	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1568	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	113
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	47148
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	03 12239672
Blower **302** Current (**Hours**)	33951		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	158444	Resettable Total Flow (SCF)	02 01555621
2 Days Ago Flow (SCF)	160023	Reset Time	11:33:3
3 Days Ago Flow (SCF)	160505	Reset Date	11/21/08
4 Days Ago Flow (SCF)	159965		
5 Days Ago Flow (SCF)	157468	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	158078	Area #**1** LEL	0
7 Days Ago Flow (SCF)	158445	Area #**2** LEL	0

Date And Time			
Date	17-MAY-13	Time	7:10:11

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/20/13	**Time**	7:34
Technician	JM	Wind Speed/Direction	CALM
Ambient Temperature (°F)	57	Barometric Pressure (in Hg)	29.94
Weather	Showers, Fog	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.9		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.8		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	70
Balance Gas (% Vol)	62.4		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	7.28		Blower Discharge Temp. (°F)	122
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.03	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	137	Top Flare Temp. (°F)	1305
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1483
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1558
Blower Current (Amps)	5.9	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1309	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1484	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1560	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	111
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45070
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	3127 2013
Blower **302** Current (**Hours**)	34023		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162489	Resettable Total Flow (SCF)	202036055
2 Days Ago Flow (SCF)	161191	Reset Time	11:33:3
3 Days Ago Flow (SCF)	158934	Reset Date	11/21/08
4 Days Ago Flow (SCF)	158444		
5 Days Ago Flow (SCF)	160023	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160505	Area **#1** LEL	0
7 Days Ago Flow (SCF)	159965	Area **#2** LEL	0

Date And Time			
Date	5/20/13	Time	7:41

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/21/13	**Time**	7:53
Technician	JM	Wind Speed/Direction	7 SSW
Ambient Temperature (°F)	65	Barometric Pressure (in Hg)	29.83
Weather	Overcast	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	18.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.0		Blower Inlet Temp. (°F)	74
Balance Gas (% Vol)	62.8		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.00		Blower Discharge Temp. (°F)	124
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.04	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.2	Top Flare Temp. (°F)	1362
Flow Rate (SCFM)	114	Middle Flare Temp. (°F)	1489
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1536
Blower Current (Amps)	5.9	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1355	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1489	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1539	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	113
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	46497
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	312886000
Blower **302** Current (**Hours**)	39047		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	164360	Resettable Total Flow (SCF)	20220125
2 Days Ago Flow (SCF)	162489	Reset Time	11:33:3
3 Days Ago Flow (SCF)	161191	Reset Date	11/21/08
4 Days Ago Flow (SCF)	158939		
5 Days Ago Flow (SCF)	158444	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160023	Area #1 LEL	0
7 Days Ago Flow (SCF)	160505	Area #2 LEL	0

Date And Time			
Date	5/21/13	Time	7:56

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5-22-13	**Time**	7:35
Technician	EE McLEAN	Wind Speed/Direction	10 E
Ambient Temperature (°F)	60	Barometric Pressure (in Hg)	29.79
Weather	OVERCAST	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	0.7
Methane (% Vol)	18.1		Nitrogen Pressure (psi)	100
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	74
Balance Gas (% Vol)	63.2		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	-7.9		Blower Discharge Temp. (°F)	117
			Blower Discharge Pressure (in WC)	1.6

FLARE STATION		
Flare Inlet Pressure (in WC)	-1.3	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	3.0	Top Flare Temp. (°F)	1412
Flow Rate (SCFM)	107	Middle Flare Temp. (°F)	1503
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1548
Blower Current (Amps)	5.9	Controlling Thermocouple	MIDDLE
Flare Top Temp. (°F)	1413	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1504	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1548	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	113
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45489
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	03 13044653
Blower **302** Current (**Hours**)	34071		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159547	Resettable Total Flow (SCF)	02 02366491
2 Days Ago Flow (SCF)	164360	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162489	Reset Date	11/21/09
4 Days Ago Flow (SCF)	161191		
5 Days Ago Flow (SCF)	158939	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	158444	Area #**1** LEL	0
7 Days Ago Flow (SCF)	160023	Area #**2** LEL	0

Date And Time			
Date	22-MAY-13	Time	6:52:27

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/23/13	**Time**	7:56
Technician	JM	Wind Speed/Direction	9 S
Ambient Temperature (°F)	63	Barometric Pressure (in Hg)	29.78
Weather	showers	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	17.8		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.9		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.9		Blower Inlet Temp. (°F)	54
Balance Gas (% Vol)			Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	7.02		Blower Discharge Temp. (°F)	122
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.08	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	5.4	Top Flare Temp. (°F)	1378
Flow Rate (SCFM)	110	Middle Flare Temp. (°F)	1504
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1552
Blower Current (Amps)	5.0	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1379	Louver Position (% Closed)	94
Flare Middle Temp. (°F)	1501	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1548	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	115
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	46565
Blower **302** Current **(Amps)**	5.8	Total Flow (SCF)	313204828
Blower **302** Current **(Hours)**	34095		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159213	Resettable Total Flow (SCF)	2025-20656
2 Days Ago Flow (SCF)	159547	Reset Time	11:33:3
3 Days Ago Flow (SCF)	164360	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162489		
5 Days Ago Flow (SCF)	161191	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	158939	Area #**1** LEL	0
7 Days Ago Flow (SCF)	158444	Area #**2** LEL	0

Date And Time			
Date	5/23/13	Time	8:02

KEY
°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/24/13	**Time**	7:19
Technician	JM	Wind Speed/Direction	6 SW
Ambient Temperature (°F)	62	Barometric Pressure (in Hg)	29.59
Weather	cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	18.6		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.7		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.3		Blower Inlet Temp. (°F)	64
Balance Gas (% Vol)	62.4		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.09		Blower Discharge Temp. (°F)	124
			Blower Discharge Pressure (in WC)	20

FLARE STATION		
Flare Inlet Pressure (in WC)	100	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	2.2	Top Flare Temp. (°F)	1288
Flow Rate (SCFM)	114	Middle Flare Temp. (°F)	1524
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1563
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1288	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1496	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1557	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	106
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	42672
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	3133360324
Blower **302** Current (**Hours**)	34119		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159389	Resettable Total Flow (SCF)	202676155
2 Days Ago Flow (SCF)	159213	Reset Time	11:33:3
3 Days Ago Flow (SCF)	159547	Reset Date	11/24/08
4 Days Ago Flow (SCF)	164360		
5 Days Ago Flow (SCF)	162484	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	161191	Area #**1** LEL	0
7 Days Ago Flow (SCF)	158939	Area #**2** LEL	0

Date And Time			
Date	5/24/13	Time	7:26

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/28/13	**Time**	7:42
Technician	JM	Wind Speed/Direction	6 SSW
Ambient Temperature (°F)	61	Barometric Pressure (in Hg)	Rising 30.06
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION					
Blowers Status **301** (circle)	~~On~~	~~Off~~	Demister Inlet Valve Position (% Open)		20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)		25
Methane (% Vol)	17.7		Nitrogen Pressure (psi)		1600
Carbon Dioxide (% Vol)	18.6		Blower Inlet Valve (% Open)		30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)		72
Balance Gas (% Vol)	63.2		Blower Inlet Vacuum (in WC)		37
Inlet Vacuum (in WC)	6.57		Blower Discharge Temp. (°F)		120
			Blower Discharge Pressure (in WC)		2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.06	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	97	Top Flare Temp. (°F)	1412
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1478
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1570
Blower Current (Amps)	5.9	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1417	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1484	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1512	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	40579
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	31401289
Blower **302** Current (**Hours**)	34215		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162882	Resettable Total Flow (SCF)	203328664
2 Days Ago Flow (SCF)	162492	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162864	Reset Date	11/21/08
4 Days Ago Flow (SCF)	160410		
5 Days Ago Flow (SCF)	159389	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159213	Area #**1** LEL	0
7 Days Ago Flow (SCF)	159547	Area #**2** LEL	0

Date And Time			
Date	5/28/13	Time	7:49

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/29/13	**Time**	7:02
Technician	JM	Wind Speed/Direction	CALM
Ambient Temperature (°F)	59	Barometric Pressure (in Hg)	29.95
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	17.6		Nitrogen Pressure (psi)	16.00
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.0		Blower Inlet Temp. (°F)	70
Balance Gas (% Vol)	63.3		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	6.48		Blower Discharge Temp. (°F)	122
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.03	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	10.8	Top Flare Temp. (°F)	1385
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1501
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1566
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1382	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1505	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1570	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	114
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	4978
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	314171831
Blower **302** Current (**Hours**)	34238		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163603	Resettable Total Flow (SCF)	203487673
2 Days Ago Flow (SCF)	162882	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162442	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162864		
5 Days Ago Flow (SCF)	160410	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159389	Area #**1** LEL	0
7 Days Ago Flow (SCF)	159213	Area #**2** LEL	0

Date And Time			
Date	5/29/13	Time	7:09

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/30/13	**Time**	7:45
Technician	JM	Wind Speed/Direction	9 WSW
Ambient Temperature (°F)	73°	Barometric Pressure (in Hg)	30.01
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION					
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)		20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)		1.5
Methane (% Vol)	17.3		Nitrogen Pressure (psi)		1600
Carbon Dioxide (% Vol)	17.9		Blower Inlet Valve (% Open)		30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)		76
Balance Gas (% Vol)	64.2		Blower Inlet Vacuum (in WC)		36
Inlet Vacuum (in WC)	6.23		Blower Discharge Temp. (°F)		126
			Blower Discharge Pressure (in WC)		3.0

FLARE STATION		
Flare Inlet Pressure (in WC)	10.2	
Flame Arrestor Differential Pressure (in WC)	8	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	11.0	Top Flare Temp. (°F)	1406
Flow Rate (SCFM)	108	Middle Flare Temp. (°F)	1505
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1540
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1404	Louver Position (% Closed)	73
Flare Middle Temp. (°F)	1505	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1538	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	111
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	46159
Blower **302** Current (**Amps**)	5.9	Total Flow (SCF)	314338870
Blower **302** Current (**Hours**)	34263		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162858	Resettable Total Flow (SCF)	203654595
2 Days Ago Flow (SCF)	163603	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162882	Reset Date	11/21/05
4 Days Ago Flow (SCF)	162442		
5 Days Ago Flow (SCF)	162864	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160410	Area #1 LEL	
7 Days Ago Flow (SCF)	159359	Area #2 LEL	

Date And Time			
Date	5/30/13	Time	7:50

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	5/31/13	**Time**	8:23
Technician	JM	Wind Speed/Direction	8 SW
Ambient Temperature (°F)	75	Barometric Pressure (in Hg)	30.01
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	20
Methane (% Vol)	17.8		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	80
Balance Gas (% Vol)	63.5		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	4.19		Blower Discharge Temp. (°F)	132
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	
Flame Arrestor Differential Pressure (in WC)	9	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	101	Top Flare Temp. (°F)	1311
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1493
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1558
Blower Current (Amps)	5.7	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1307	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1493	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1552	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	50264
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	3145035 71
Blower **302** Current (**Hours**)	34288		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	160596	Resettable Total Flow (SCF)	20381403
2 Days Ago Flow (SCF)	162858	Reset Time	11:33:3
3 Days Ago Flow (SCF)	163603	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162882		
5 Days Ago Flow (SCF)	162442	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162864	Area **#1** LEL	0
7 Days Ago Flow (SCF)	160410	Area **#2** LEL	0

Date And Time			
Date	5/31/13	Time	8:30

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/01/2013 6:54 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1456.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/02/2013 7:49 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1457.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/03/2013 7:29 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1459.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/06/2013 12:26 PM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1464.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/07/2013 7:25 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1464.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/08/2013 7:44 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1466.1 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/09/2013 7:45 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1466.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/10/2013 7:27 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1468.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/13/2013 7:32 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1470.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/14/2013 8:00 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1471.4 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/15/2013 7:46 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1472.7 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/16/2013 7:56 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1473.3 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/20/2013 7:38 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1474.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/21/2013 7:57 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1474.9 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/22/2013 7:53 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1475.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/23/2013 7:59 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1475.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/24/2013 7:23 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1476.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/28/2013 7:46 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1478.7 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/29/2013 7:07 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1478.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/30/2013 7:47 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1478.9 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

05/31/2013 8:27 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1478.9 GAL

PENNSYLVANIA AVENUE LANDFILL			Month: **JUNE**									Year: **2013**			**LFG-1**
			Process Overview (YIC-1 From Main Menu Screen)									**Flow & Totalizer**			
DATE	TIME	Hours On Line	Landfill Vacuum (in WC)	Flow Rate (SCFM)	LFG Oxygen (%)	Blower Current (Amps)	Flare Top Temp. (°F)	Flare Middle Temp. (°F)	Flare Bottom Temp. (°F)	Area LEL (%)	Area #1 LEL	Area #2 LEL	Current Flow (SCFM)	Today's Total Flow (SCF)	Total Flow (SCF)	Yesterday's Flow (SCF)
1		24														160,158
2		24														159,693
3	8:10	24	4.1	113	0	5.8	1429	1505	1536	0	0	0	111	47,839	314,980,154	159,044
4	9:27	24	7.0	115	0	5.8	1422	1509	1561	0	0	0	114	57,157	315,148,400	159,041
5		0														159,777
6		19.5														0
7	7:24	24	6.8	118	0	5.9	1415	1484	1514	0	0	0	115	47,207	315,427,147	128,920
8		24														167,242
9		24														165,261
10	7:30	24	7.8	112	0	5.8	1437	1522	1576	0	0	0	116	45,227	315,921,293	163,623
11	7:15	24	12.3	121	0	5.7	1419	1498	1533	0	0	0	119	45,932	316,086,322	164,324
12	6:03	24	6.8	112	0	5.7	1403	1491	1538	0	0	0	110	35,001	316,240,265	164,874
13	5:50	24	7.4	112	0	5.8	1426	1495	1534	0	0	0	112	33,564	316,401,088	162,260
14	6:13	24		114	0	5.8	1402	1501	1553	0	0	0	112	36,290	316,566,776	162,962
15		24														162,850
16		24														162,452
17	6:10	24	5.6	117	0	5.8	1376	1513	1570	0	0	0	112	35,619	317,053,457	161,936
18	7:50	24	9.5	116	0	5.7	1385	1522	1578	0	0	0	115	49,797	317,229,523	162,002
19	7:36	24	6.3	112	0	5.8	1431	1517	1559	0	0	0	114	45,519	317,387,820	162,575
20	7:54	24	9.4	114	0	5.8	1391	1480	1516	0	0	0	110	49,026	317,554,552	163,225
21	7:15	24	7.4	116	0	5.8	1324	1493	1550	0	0	0	114	44,703	317,716,247	165,899
22		24														167,397
23		24														167,790
24	6:46	24	6.9	112	0	5.8	1331	1479	1545	0	0	0	116	40,516	318,217,935	170,807
25	7:12	24	6.9	114	0	5.8	1345	1521	1576	0	0	0	118	43,304	318,385,613	164,890
26	7:58	24	6.2	115	0	5.8	1412	1512	1558	0	0	0	117	48,496	318,554,628	163,823
27	6:08	24	5.4	115	0	5.7	1310	1528	1602	0	0	0	112	35,736	318,705,469	163,601
28	7:53	24	9.2	110	0	5.7	1421	1514	1548	0	0	0	114	47,073	318,880,450	163,644
29		24														162,824
30		24														163,339
															1-Jul	164,942
															JUNE 2013 Total Flow:	**4,711,017**

PENNSYLVANIA AVENUE LANDFILL		Month:	**JUNE**	Year:	**2013**		**LFG-1**

		BLOWER STATION												**Blower Data**			
DATE	TIME	Blower In Service **301** or **302**	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Balance Gas (% Vol)	Inlet Vacuum (in WC)	Demister Inlet Valve Position (% Open)	Demister Differential Pressure (in WC)	Nitrogen Pressure (psi)	Blower Inlet Valve (% Open)	Blower Inlet Temp. (°F)	Blower Discharge Temp. (°F)	Blower **301** Current (**Amps**)	Blower **301** Current (**Hours**)	Blower **302** Current (**Amps**)	Blower **302** Current (**Hours**)
1																	
2																	
3	8:10	302	18.1	18.3	0.5	63.1	5.6	20	1.5	1600	30	78	120	0.0	20806	5.8	34359
4	9:27	302	17.3	17.4	0.3	64.9	6.7	20	1.5	1600	30	76	120	0.0	20806	5.9	34385
5																	
6																	
7	7:24	302	18.4	18.9	0.2	62.5	6.1	20	2.0	1600	30	75	116	0.0	20806	5.8	34425
8																	
9																	
10	7:30	302	18.0	18.4	0.6	62.9	5.8	20	2.0	1600	30	77	126	0.0	20806	5.8	34497
11	7:15	302	18.9	18.7	0.4	62.0	5.8	20	1.7	1600	30	76	126	0.0	20806	5.8	34521
12	6:03	302	18.5	19.2	0.2	62.1	6.5	20	2.0	1600	30	76	122	0.0	20806	5.7	34544
13	5:50	302	17.7	18.2	1.3	62.8	5.8	20	2.0	1600	30	78	126	0.0	20806	5.8	34568
14	6:13	302	18.6	19.1	0.4	61.8	6.7	20	1.0	1600	30	72	112	0.0	20806	5.7	34592
15																	
16																	
17	6:10	302	18.0	18.3	0.9	62.8	6.5	20	2.0	1600	30	79	128	0.0	20806	5.8	34664
18	7:50	302	18.0	18.8	0.7	62.4	6.5	20	1.4	1600	30	80	130	0.0	20806	5.7	34690
19	7:36	302	18.7	18.1	0.2	63.2	7.0	20	1.1	1600	30	78	120	0.0	20806	5.8	34714
20	7:54	302	17.5	18.4	0.7	63.4	6.6	20	1.2	1600	30	78	128	0.0	20806	5.8	34738
21	7:15	302	17.1	18.0	1.2	63.7	5.0	20	1.0	1600	30	78	128	0.0	20806	5.8	34761
22																	
23																	
24	6:46	302	18.4	18.0	0.2	63.4	5.7	20	1.4	1600	30	80	132	0.0	20806	5.8	34833
25	7:12	302	18.1	17.8	0.5	63.6	5.3	20	1.4	1600	30	84	131	0.0	20806	5.8	34857
26	7:58	302	17.9	17.5	0.8	63.9	5.5	20	1.4	1600	30	86	132	0.0	20806	5.7	34882
27	6:08	302	18.4	18.3	0.0	63.3	5.7	20	1.3	1600	30	85	134	0.0	20806	5.7	34904
28	7:53	302	18.3	18.0	0.3	63.3	5.4	20	1.5	1600	30	85	132	0.0	20806	5.7	34930
29																	
30																	

PENNSYLVANIA AVENUE LANDFILL							Month:	JUNE		Year:	2013			LFG-1		
		WEATHER					FLARE TEMPERATURE							FLARE STATION		
DATE	TIME	Weather	Ambient Temp (°F)	Wind Speed	Wind Direction	Barometric Pressure (in Hg)	Top Flare Temp. (°F)	Middle Flare Temp. (°F)	Bottom Flare Temp. (°F)	Controlling Thermo-couple	Louver Position (% Closed)	Control Temp. (SP)	Control Mode	Flare Inlet Pressure (in WC)	Flame Arrestor Differential Pressure (in WC)	Aux Fuel Pressure (in WC) Natural Gas
1																
2																
3	8:10	rain	64	9	S	29.85	1429	1505	1535	middle	91	1500	auto	1.04	0	0
4	9:27	sun	64	14	NW	29.84	1419	1502	1551	middle	92	1500	auto	0.94	0	0
5																
6																
7	7:24	rain	61	15	E	29.92	1414	1484	1519	middle	93	1500	auto	1.01	0	0
8																
9																
10	7:30	cloudy	63	6	E	30.01	1435	1522	1577	middle	91	1500	auto	1.01	0	0
11	7:15	cloudy	68	9	SW	29.65	1419	1494	1529	middle	90	1500	auto	0.97	0	0
12	6:03	sun	76	18	NNW	29.59	1401	1495	1543	middle	95	1500	auto	1.02	0	0
13	5:50	cloudy	65	6	S	29.65	1427	1494	1535	middle	93	1500	auto	0.97	0	0
14	6:13	cloudy	54	20	N	29.51	1404	1503	1553	middle	94	1500	auto	0.96	0	0
15																
16																
17	6:10	sun	67	10	W	29.78	1382	1511	1566	middle	91	1500	auto	1.08	0	0
18	7:50	sun	69	4	E	29.90	1382	1522	1576	middle	92	1500	auto	0.90	0	0
19	7:36	sun	64	12	NNE	30.00	1428	1512	1554	middle	91	1500	auto	0.98	0	0
20	7:54	sun	66	5	SW	30.27	1375	1474	1512	middle	94	1500	auto	1.08	0	0
21	7:15	sun	65	7	WSW	30.18	1318	1491	1551	middle	95	1500	auto	0.92	0	0
22																
23																
24	6:46	sun	72	10	SW	30.10	1334	1489	1556	middle	94	1500	auto	1.01	0	0
25	7:12	sun	73	11	SW	29.97	1346	1525	1578	middle	92	1500	auto	0.99	0	0
26	7:58	sun	77	11	W	29.88	1410	1513	1559	middle	93	1500	auto	1.06	0	0
27	6:08	cloudy	72	calm		29.80	1318	1533	1604	middle	92	1500	auto	1.04	0	0
28	7:53	cloudy	75	18	WNW	29.58	1426	1516	1548	middle	90	1500	auto	1.01	0	0
29																
30																

Notes: The Flare Station lost power due to a short circuit on 6/5/13, and was restored by electrician on 6/6/13.

PENNSYLVANIA AVENUE LANDFILL
LANDFILL DAILY OPERATIONS MONTHLY REPORT
Month: JUNE 2013

	Date	Landfill Gas System			Landfill - Cover & Stormwater Systems, Roads, etc.
		Hours On Line	Flare	LFG Collection - Extraction Wells	
Weekend	1-Jun	24	The flare ran 96% of the time, processing 4,711,017 scf of landfill gas. The only outage occurred when a short circuit in the oxygen monitoring system knocked out the station for 29 hours. The system ran on automatic mode, and the target temperature is controlled by the middle thermocouple.	All 46 extraction wells were monitored during the month of June 2013. Access was cleared to provide access.	The landfill systems were inspected after rainstorms and the stormwater system was cleared as needed.
	2-Jun	24			
Monday	3-Jun	24			Perimeter soil as monitoring was performed on June 14th.
Tuesday	4-Jun	24			
Wednesday	5-Jun	0			
Thursday	6-Jun	19.5			
Friday	7-Jun	24			
Weekend	8-Jun	24			
	9-Jun	24			
Monday	10-Jun	24			
Tuesday	11-Jun	24			
Wednesday	12-Jun	24			
Thursday	13-Jun	24			
Friday	14-Jun	24			
Weekend	15-Jun	24			
	16-Jun	24			
Monday	17-Jun	24			
Tuesday	18-Jun	24			
Wednesday	19-Jun	24			
Thursday	20-Jun	24			
Friday	21-Jun	24			
Weekend	22-Jun	24			
	23-Jun	24			
Monday	24-Jun	24			
Tuesday	25-Jun	24			
Wednesday	26-Jun	24			
Thursday	27-Jun	24			
Friday	28-Jun	24			
Weekend	29-Jun	24			
	30-Jun	24			

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/3/13	**Time**	8:10
Technician	JM	Wind Speed/Direction	9 S
Ambient Temperature (°F)	64	Barometric Pressure (in Hg)	29.85
Weather	Rain	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	58.1		Nitrogen Pressure (psi)	1800
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	78
Balance Gas (% Vol)	63.1		Blower Inlet Vacuum (in WC)	34
Inlet Vacuum (in WC)	5.61		Blower Discharge Temp. (°F)	120
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	1.04	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	~~4.1~~	Top Flare Temp. (°F)	1429
Flow Rate (SCFM)	113	Middle Flare Temp. (°F)	1505
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1535
Blower Current (Amps)	5.8	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1429	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1505	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1536	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	111
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	47839
Blower **302** Current **(Amps)**	5.8	Total Flow (SCF)	314980154
Blower **302** Current **(Hours)**	34359		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159044	Resettable Total Flow (SCF)	204295879
2 Days Ago Flow (SCF)	159693	Reset Time	11:33:3
3 Days Ago Flow (SCF)	160158	Reset Date	11/21/08
4 Days Ago Flow (SCF)	160596		
5 Days Ago Flow (SCF)	162858	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	163603	Area #**1** LEL	0
7 Days Ago Flow (SCF)	162882	Area #**2** LEL	0

Date And Time			
Date	6/3/13	Time	8:13

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/4/13	**Time**	9:27
Technician	JM	Wind Speed/Direction	14 NW
Ambient Temperature (°F)	64	Barometric Pressure (in Hg)	29.84
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.5
Methane (% Vol)	1.3		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.3		Blower Inlet Temp. (°F)	76
Balance Gas (% Vol)	64.9		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	6.70		Blower Discharge Temp. (°F)	120
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	.94	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.0	Top Flare Temp. (°F)	1419
Flow Rate (SCFM)	115	Middle Flare Temp. (°F)	1502
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1551
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1422	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1509	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1561	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	114
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	57157
Blower **302** Current **(Amps)**	5.9	Total Flow (SCF)	3 151 8400
Blower **302** Current **(Hours)**	34385		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	159041	Resettable Total Flow (SCF)	204464236
2 Days Ago Flow (SCF)	159044	Reset Time	16:33:3
3 Days Ago Flow (SCF)	159693	Reset Date	11/21/08
4 Days Ago Flow (SCF)	160158		
5 Days Ago Flow (SCF)	160596	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162858	Area **#1** LEL	0
7 Days Ago Flow (SCF)	163603	Area **#2** LEL	0

Date And Time			
Date		Time	

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

4249137 4249137
4146330

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/7/13	**Time**	7:24
Technician	JM	Wind Speed/Direction	15 E
Ambient Temperature (°F)	61	Barometric Pressure (in Hg)	29.92
Weather	Rain	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.4		Nitrogen Pressure (psi)	160
Carbon Dioxide (% Vol)	18.9		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.2		Blower Inlet Temp. (°F)	75
Balance Gas (% Vol)	62.5		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	6.10		Blower Discharge Temp. (°F)	116
			Blower Discharge Pressure (in WC)	25

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	NOTE: FLARE LOST POWER
Flame Arrestor Differential Pressure (in WC)	0	ON 6/5/13 AT 6:45 AM. ELECTRICIAN
Aux Fuel Pressure (in WC) - Natural Gas	0	TROUBLESHOOTING ON 6/6/13 FOUND
		SHORT IN O_2 SENSOR HEATER. FLARE

ANALOG DATA MENU
BACK ON-LINE AT 11:30 ON 6/6/13

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.6	Top Flare Temp. (°F)	1414
Flow Rate (SCFM)	118	Middle Flare Temp. (°F)	1484
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1519
Blower Current (Amps)	5.9	Controlling Thermocouple	93 Middle
Flare Top Temp. (°F)	1415	Louver Position (% Closed)	1500 93
Flare Middle Temp. (°F)	1484	Control Temperature (SP)	A 1500
Flare Bottom Temp. (°F)	1514	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	115
Blower **301** Current (**Hours**)	20606	Today's Total Flow (SCF)	47207
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	315427147
Blower **302** Current (**Hours**)	34425		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	128920	Resettable Total Flow (SCF)	204742991
2 Days Ago Flow (SCF)	159777	Reset Time	11:33:3
3 Days Ago Flow (SCF)	159041	Reset Date	11/21/08
4 Days Ago Flow (SCF)	159044		
5 Days Ago Flow (SCF)	159693	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	160158	Area **#1** LEL	0
7 Days Ago Flow (SCF)	160596	Area **#2** LEL	0

Date And Time			
Date	6/7/13	Time	7:40

KEY
°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/10/13	**Time**	7:30
Technician	JM	Wind Speed/Direction	6 E
Ambient Temperature (°F)	63	Barometric Pressure (in Hg)	30.01
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION					
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.0		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.6		Blower Inlet Temp. (°F)	77
Balance Gas (% Vol)	62.9		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	5.77		Blower Discharge Temp. (°F)	126
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.8	Top Flare Temp. (°F)	1435
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1522
LFG Oxygen (%)	0.8	Bottom Flare Temp. (°F)	1577
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1437	Louver Position (% Closed)	9
Flare Middle Temp. (°F)	1522	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1576	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	116
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45227
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	315921293
Blower **302** Current (**Hours**)	34497		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163623	Resettable Total Flow (SCF)	205237133
2 Days Ago Flow (SCF)	165261	Reset Time	11:37:3
3 Days Ago Flow (SCF)	167242	Reset Date	11/21/08
4 Days Ago Flow (SCF)	128920		
5 Days Ago Flow (SCF)	159777	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159041	Area #1 LEL	0
7 Days Ago Flow (SCF)	159044	Area #2 LEL	0

Date And Time			
Date	6/10/13	Time	7:36

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/11/13	**Time**	7:15
Technician	TM	Wind Speed/Direction	9 SW
Ambient Temperature (°F)	68	Barometric Pressure (in Hg)	29.65
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.7
Methane (% Vol)	18.9		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.7		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	76
Balance Gas (% Vol)	62.0		Blower Inlet Vacuum (in WC)	43
Inlet Vacuum (in WC)	-5.83		Blower Discharge Temp. (°F)	126
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	F.97	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	12.3	Top Flare Temp. (°F)	1419
Flow Rate (SCFM)	121	Middle Flare Temp. (°F)	1494
LFG Oxygen (%)	0.6	Bottom Flare Temp. (°F)	1529
Blower Current (Amps)	57	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1419	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1498	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1533	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	00	Current Flow (SCFM)	119
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45932
Blower **302** Current (**Amps**)	58	Total Flow (SCF)	3160863 22
Blower **302** Current (**Hours**)	34554		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	164324	Resettable Total Flow (SCF)	205402165
2 Days Ago Flow (SCF)	163623	Reset Time	11:33:3
3 Days Ago Flow (SCF)	165261	Reset Date	11/21/08
4 Days Ago Flow (SCF)	167242		
5 Days Ago Flow (SCF)	128920	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	159777	Area #1 LEL	0
7 Days Ago Flow (SCF)	159041	Area #2 LEL	0

Date And Time			
Date	6/11/13	Time	7:22

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/12/13	**Time**	6:03
Technician	JM	Wind Speed/Direction	18 NNW
Ambient Temperature (°F)	76	Barometric Pressure (in Hg)	29.59
Weather	sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.5		Nitrogen Pressure (psi)	600
Carbon Dioxide (% Vol)	19.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.2		Blower Inlet Temp. (°F)	76
Balance Gas (% Vol)	62.1		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-6.45		Blower Discharge Temp. (°F)	122
			Blower Discharge Pressure (in WC)	1.3

FLARE STATION		
Flare Inlet Pressure (in WC)	+1.02	
Flame Arrestor Differential Pressure (in WC)	8	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.8	Top Flare Temp. (°F)	1401
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1495
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1543
Blower Current (Amps)	5.7	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1403	Louver Position (% Closed)	95
Flare Middle Temp. (°F)	1491	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1538	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	110
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	35001
Blower **302** Current (**Amps**)	5.7	Total Flow (SCF)	316240265
Blower **302** Current (**Hours**)	34544		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	164874	Resettable Total Flow (SCF)	205556100
2 Days Ago Flow (SCF)	164324	Reset Time	11:33:3
3 Days Ago Flow (SCF)	163623	Reset Date	11/21/08
4 Days Ago Flow (SCF)	165261		
5 Days Ago Flow (SCF)	167242	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	128920	Area #1 LEL	0
7 Days Ago Flow (SCF)	159777	Area #2 LEL	0

Date And Time			
Date	6/12/13	Time	6:12

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/13/13	**Time**	5:50
Technician	JM	Wind Speed/Direction	6 S
Ambient Temperature (°F)	65	Barometric Pressure (in Hg)	29.65
Weather	cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	2
Methane (% Vol)	17.7		Nitrogen Pressure (psi)	600
Carbon Dioxide (% Vol)	18.2		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.3		Blower Inlet Temp. (°F)	78
Balance Gas (% Vol)	62.8		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	5.83		Blower Discharge Temp. (°F)	126
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	9.7	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.4	Top Flare Temp. (°F)	1427
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1494
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1535
Blower Current (Amps)	5.8	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1426	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1495	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1534	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20500	Today's Total Flow (SCF)	33564
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	316401088
Blower **302** Current (**Hours**)	34568		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162260	Resettable Total Flow (SCF)	205716929
2 Days Ago Flow (SCF)	164874	Reset Time	11:33:3
3 Days Ago Flow (SCF)	164324	Reset Date	11/21/08
4 Days Ago Flow (SCF)	163623		
5 Days Ago Flow (SCF)	165261	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	167242	Area **#1** LEL	0
7 Days Ago Flow (SCF)	128920	Area **#2** LEL	0

Date And Time			
Date	6/13/13	Time	5:56

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/14/13	**Time**	6:13
Technician	JM	Wind Speed/Direction	20 N
Ambient Temperature (°F)	54	Barometric Pressure (in Hg)	29.51
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	~~On~~	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	~~On~~	Off	Demister Differential Pressure (in WC)	1.0
Methane (% Vol)	18.6		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	19.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.4		Blower Inlet Temp. (°F)	72
Balance Gas (% Vol)	61.8		Blower Inlet Vacuum (in WC)	30
Inlet Vacuum (in WC)	6.73		Blower Discharge Temp. (°F)	112
			Blower Discharge Pressure (in WC)	3

FLARE STATION		
Flare Inlet Pressure (in WC)	.196	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	RM 0.0	Top Flare Temp. (°F)	1404
Flow Rate (SCFM)	114	Middle Flare Temp. (°F)	1503
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1553
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1462	Louver Position (% Closed)	94
Flare Middle Temp. (°F)	1501	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1553	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	36290
Blower **302** Current (**Amps**)	5.7	Total Flow (SCF)	3165666776
Blower **302** Current (**Hours**)	34592		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162962	Resettable Total Flow (SCF)	205882616
2 Days Ago Flow (SCF)	162260	Reset Time	11:33:3
3 Days Ago Flow (SCF)	164874	Reset Date	11/21/08
4 Days Ago Flow (SCF)	164324		
5 Days Ago Flow (SCF)	163623	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	165261	Area **#1** LEL	0
7 Days Ago Flow (SCF)	167242	Area **#2** LEL	0

Date And Time			
Date	6/14/13	Time	6:22

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/17/13	**Time**	6:10
Technician	JM	Wind Speed/Direction	10 W
Ambient Temperature (°F)	67	Barometric Pressure (in Hg)	29.78
Weather	sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	2.0
Methane (% Vol)	18.0		Nitrogen Pressure (psi)	1220
Carbon Dioxide (% Vol)	18.3		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.9		Blower Inlet Temp. (°F)	79
Balance Gas (% Vol)	62.8		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	6.46		Blower Discharge Temp. (°F)	128
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.08	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	5.6	Top Flare Temp. (°F)	1382
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1511
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1566
Blower Current (Amps)	5.8	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1376	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1513	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1570	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20506	Today's Total Flow (SCF)	35619
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	3170533457
Blower **302** Current (**Hours**)	34664		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	161936	Resettable Total Flow (SCF)	20636 9182
2 Days Ago Flow (SCF)	162452	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162850	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162962		
5 Days Ago Flow (SCF)	162260	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	164874	Area #1 LEL	0
7 Days Ago Flow (SCF)	164324	Area #2 LEL	0

Date And Time			
Date	6/17/13	Time	6:15

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6-18-13	**Time**	7:50AM
Technician	EEM	Wind Speed/Direction	4 E
Ambient Temperature (°F)	69	Barometric Pressure (in Hg)	29.90
Weather	SUNNY	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	1.4
Methane (% Vol)	18.0		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.8		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.7		Blower Inlet Temp. (°F)	80
Balance Gas (% Vol)	62.4		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	-6.5		Blower Discharge Temp. (°F)	130
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	0.9	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.5	Top Flare Temp. (°F)	1582
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1522
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1576
Blower Current (Amps)	5.7	Controlling Thermocouple	MIDDLE
Flare Top Temp. (°F)	1385	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1522	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1578	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	115
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	49797
Blower **302** Current (**Amps**)	5.7	Total Flow (SCF)	03 17229523
Blower **302** Current (**Hours**)	34690		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162002	Resettable Total Flow (SCF)	02 06545462
2 Days Ago Flow (SCF)	161936	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162452	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162850		
5 Days Ago Flow (SCF)	162962	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162260	Area #1 LEL	0
7 Days Ago Flow (SCF)	164874	Area #2 LEL	0

Date And Time			
Date	18-Jun-13	Time	7:22:14

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/19/13	**Time**	7:36
Technician	JM	Wind Speed/Direction	12 NNE
Ambient Temperature (°F)	64	Barometric Pressure (in Hg)	30.00
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.1
Methane (% Vol)	18.7		Nitrogen Pressure (psi)	160
Carbon Dioxide (% Vol)	18.1		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.2		Blower Inlet Temp. (°F)	78
Balance Gas (% Vol)	63.2		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	7.01		Blower Discharge Temp. (°F)	120
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	.98	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.3	Top Flare Temp. (°F)	1428
Flow Rate (SCFM)	112	Middle Flare Temp. (°F)	1512
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1554
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1431	Louver Position (% Closed)	91
Flare Middle Temp. (°F)	1517	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1559	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	114
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	45519
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	317357820
Blower **302** Current (**Hours**)	34714		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	162575	Resettable Total Flow (SCF)	206703655
2 Days Ago Flow (SCF)	162002	Reset Time	11:33:3
3 Days Ago Flow (SCF)	161936	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162452		
5 Days Ago Flow (SCF)	162850	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162962	Area **#1** LEL	0
7 Days Ago Flow (SCF)	162260	Area **#2** LEL	0

Date And Time			
Date	6/19/13	Time	7:42

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/20/13	**Time**	7:54
Technician	JM	Wind Speed/Direction	5 SW
Ambient Temperature (°F)	66	Barometric Pressure (in Hg)	30.27
Weather	Sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.2
Methane (% Vol)	17.5		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	16.4		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	.1		Blower Inlet Temp. (°F)	78
Balance Gas (% Vol)	63.4		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	6.64		Blower Discharge Temp. (°F)	128
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	108	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.4	Top Flare Temp. (°F)	1375
Flow Rate (SCFM)	114	Middle Flare Temp. (°F)	1474
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1573
Blower Current (Amps)	5.8	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1391	Louver Position (% Closed)	94
Flare Middle Temp. (°F)	1480	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1516	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	110
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	49026
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	317554552
Blower **302** Current (**Hours**)	34736		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163225	Resettable Total Flow (SCF)	206870397
2 Days Ago Flow (SCF)	162575	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162002	Reset Date	11/21/08
4 Days Ago Flow (SCF)	161936		
5 Days Ago Flow (SCF)	162452	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162850	Area **#1** LEL	0
7 Days Ago Flow (SCF)	162962	Area **#2** LEL	0

Date And Time			
Date	6/20/13	Time	8:06

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/21/13	**Time**	7:15
Technician	JM	Wind Speed/Direction	7 WSW
Ambient Temperature (°F)	65	Barometric Pressure (in Hg)	30.18
Weather	sun	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.02
Methane (% Vol)	17.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	1.2		Blower Inlet Temp. (°F)	78
Balance Gas (% Vol)	63.7		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	-5.01		Blower Discharge Temp. (°F)	128
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	.92	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	7.4	Top Flare Temp. (°F)	1318
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1491
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1551
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1324	Louver Position (% Closed)	95
Flare Middle Temp. (°F)	1493	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1550	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.6	Current Flow (SCFM)	114
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	44703
Blower **302** Current **(Amps)**	5.8	Total Flow (SCF)	31771647
Blower **302** Current **(Hours)**	34761		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	165899	Resettable Total Flow (SCF)	207032092
2 Days Ago Flow (SCF)	163225	Reset Time	11:33:3
3 Days Ago Flow (SCF)	162575	Reset Date	11/21/08
4 Days Ago Flow (SCF)	162002		
5 Days Ago Flow (SCF)	161936	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162452	Area #**1** LEL	0
7 Days Ago Flow (SCF)	162850	Area #**2** LEL	0

Date And Time			
Date	6/21/13	Time	

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

1

Date	6/24/13	**Time**	6:46
Technician	JM	Wind Speed/Direction	10 SW
Ambient Temperature (°F)	72	Barometric Pressure (in Hg)	30.10
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.4
Methane (% Vol)	18.4		Nitrogen Pressure (psi)	160
Carbon Dioxide (% Vol)	18.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.2		Blower Inlet Temp. (°F)	80
Balance Gas (% Vol)	63.4		Blower Inlet Vacuum (in WC)	38
Inlet Vacuum (in WC)	5.66		Blower Discharge Temp. (°F)	132
			Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.9	Top Flare Temp. (°F)	1334
Flow Rate (SCFM)	117	Middle Flare Temp. (°F)	1489
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1556
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1331	Louver Position (% Closed)	94
Flare Middle Temp. (°F)	1479	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1545	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	116
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	40576
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	318247935
Blower **302** Current (**Hours**)	34833		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	170807	Resettable Total Flow (SCF)	207533777
2 Days Ago Flow (SCF)	167790	Reset Time	11:33:3
3 Days Ago Flow (SCF)	167397	Reset Date	11/21/08
4 Days Ago Flow (SCF)	165879		
5 Days Ago Flow (SCF)	163225	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	162575	Area #**1** LEL	0
7 Days Ago Flow (SCF)	162002	Area #**2** LEL	0

Date And Time			
Date	6/24/13	Time	6:51

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/25/13	**Time**	7:12
Technician	TM	Wind Speed/Direction	11 SW
Ambient Temperature (°F)	73	Barometric Pressure (in Hg)	29.97
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	Off	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.4
Methane (% Vol)	18.1		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.8		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.5		Blower Inlet Temp. (°F)	84
Balance Gas (% Vol)	63.6		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-5.25		Blower Discharge Temp. (°F)	131
			Blower Discharge Pressure (in WC)	1.5

FLARE STATION		
Flare Inlet Pressure (in WC)	.99	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.9	Top Flare Temp. (°F)	1346
Flow Rate (SCFM)	114	Middle Flare Temp. (°F)	1525
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1578
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1345	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1521	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1576	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	118
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	43304
Blower **302** Current (**Amps**)	5.8	Total Flow (SCF)	318385613
Blower **302** Current (**Hours**)	34857		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	1764890	Resettable Total Flow (SCF)	20701450
2 Days Ago Flow (SCF)	1708[illegible]	Reset Time	11:33:3
3 Days Ago Flow (SCF)	1677[illegible]90	Reset Date	11/21/08
4 Days Ago Flow (SCF)	1673[illegible]97		
5 Days Ago Flow (SCF)	1658[illegible]94	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	1632[illegible]25	Area #**1** LEL	
7 Days Ago Flow (SCF)	1625[illegible]75	Area #**2** LEL	

Date And Time			
Date	6/25/13	Time	7:19

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/26/13	**Time**	758
Technician	JM	Wind Speed/Direction	11 W
Ambient Temperature (°F)	77	Barometric Pressure (in Hg)	29.88
Weather	SUN	**GEM I.D.**	**9087**

BLOWER STATION			
Blowers Status **301** (circle)	On ~~Off~~	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	On Off	Demister Differential Pressure (in WC)	1.4
Methane (% Vol)	17.9	Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	17.5	Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.8	Blower Inlet Temp. (°F)	86
Balance Gas (% Vol)	63.9	Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	5.53	Blower Discharge Temp. (°F)	132
		Blower Discharge Pressure (in WC)	2.0

FLARE STATION		
Flare Inlet Pressure (in WC)	T 1.00	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	6.2	Top Flare Temp. (°F)	1410
Flow Rate (SCFM)	115	Middle Flare Temp. (°F)	1513
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1559
Blower Current (Amps)	5.8	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1412	Louver Position (% Closed)	93
Flare Middle Temp. (°F)	1512	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1558	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	0.0	Current Flow (SCFM)	117
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	48496
Blower **302** Current (**Amps**)	5.7	Total Flow (SCF)	318554628
Blower **302** Current (**Hours**)	34882		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163823	Resettable Total Flow (SCF)	20787469
2 Days Ago Flow (SCF)	164896	Reset Time	11:33:3
3 Days Ago Flow (SCF)	170807	Reset Date	11/21/08
4 Days Ago Flow (SCF)	167790		
5 Days Ago Flow (SCF)	167397	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	165849	Area #**1** LEL	0
7 Days Ago Flow (SCF)	163225	Area #**2** LEL	0

Date And Time			
Date	6/26/13	Time	8:06

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/27/13	**Time**	< 6:08
Technician	JW	Wind Speed/Direction	CALM
Ambient Temperature (°F)	72	Barometric Pressure (in Hg)	29.80
Weather	cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	~~Off~~	Demister Inlet Valve Position (% Open)	
Blowers Status **302** (circle)	On	Off	Demister Differential Pressure (in WC)	1.3
Methane (% Vol)	18.4		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	18.3		Blower Inlet Valve (% Open)	
Oxygen (% Vol)	0.0		Blower Inlet Temp. (°F)	85
Balance Gas (% Vol)	63.3		Blower Inlet Vacuum (in WC)	36
Inlet Vacuum (in WC)	5.01		Blower Discharge Temp. (°F)	134
			Blower Discharge Pressure (in WC)	2.5

FLARE STATION		
Flare Inlet Pressure (in WC)	+ 1.04	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	5.4	Top Flare Temp. (°F)	1318
Flow Rate (SCFM)	115	Middle Flare Temp. (°F)	1533
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1604
Blower Current (Amps)	57	Controlling Thermocouple	middle
Flare Top Temp. (°F)	1310	Louver Position (% Closed)	92
Flare Middle Temp. (°F)	1528	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1602	Control Mode	AUTO
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current (**Amps**)	1.0	Current Flow (SCFM)	112
Blower **301** Current (**Hours**)	20806	Today's Total Flow (SCF)	35136
Blower **302** Current (**Amps**)	57	Total Flow (SCF)	318705469
Blower **302** Current (**Hours**)	34904		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163601	Resettable Total Flow (SCF)	208021194
2 Days Ago Flow (SCF)	163623	Reset Time	11:33:3
3 Days Ago Flow (SCF)	164890	Reset Date	11/21/08
4 Days Ago Flow (SCF)	170807		
5 Days Ago Flow (SCF)	167790	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	167397	Area #**1** LEL	
7 Days Ago Flow (SCF)	165849	Area #**2** LEL	

Date And Time			
Date	6/27/13	Time	6:13

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

PENNSYLVANIA AVENUE LANDFILL
LFG-1: LANDFILL GAS MANAGEMENT SYSTEM DAILY INSPECTION LOG

Date	6/28/13	**Time**	~~EDT~~ 7:53
Technician	JM	Wind Speed/Direction	18 WNW
Ambient Temperature (°F)	75	Barometric Pressure (in Hg)	29.58
Weather	Cloudy	**GEM I.D.**	**9087**

BLOWER STATION				
Blowers Status **301** (circle)	On	(Off)	Demister Inlet Valve Position (% Open)	20
Blowers Status **302** (circle)	(On)	Off	Demister Differential Pressure (in WC)	15
Methane (% Vol)	18.3		Nitrogen Pressure (psi)	1600
Carbon Dioxide (% Vol)	16.0		Blower Inlet Valve (% Open)	30
Oxygen (% Vol)	0.3		Blower Inlet Temp. (°F)	85
Balance Gas (% Vol)	63.3		Blower Inlet Vacuum (in WC)	37
Inlet Vacuum (in WC)	-5.38		Blower Discharge Temp. (°F)	132
			Blower Discharge Pressure (in WC)	20

FLARE STATION		
Flare Inlet Pressure (in WC)	1.01	
Flame Arrestor Differential Pressure (in WC)	0	
Aux Fuel Pressure (in WC) - Natural Gas	0	

ANALOG DATA MENU

Process Overview (YIC-1 From Main Menu Screen)		**Flare Temperature**	
Landfill Vacuum (in WC)	9.2	Top Flare Temp. (°F)	1426
Flow Rate (SCFM)	116	Middle Flare Temp. (°F)	1516
LFG Oxygen (%)	0.0	Bottom Flare Temp. (°F)	1548
Blower Current (Amps)	5.7	Controlling Thermocouple	Middle
Flare Top Temp. (°F)	1421	Louver Position (% Closed)	90
Flare Middle Temp. (°F)	1514	Control Temperature (SP)	1500
Flare Bottom Temp. (°F)	1548	Control Mode	Auto
Area LEL (%)	0		

Blower Data		**Flow & Totalizer**	
Blower **301** Current **(Amps)**	0.0	Current Flow (SCFM)	114
Blower **301** Current **(Hours)**	20806	Today's Total Flow (SCF)	47073
Blower **302** Current **(Amps)**	5.7	Total Flow (SCF)	3 18880450
Blower **302** Current **(Hours)**	34930		

7 Day Flow History		**Resettable Flow**	
Yesterday's Flow (SCF)	163644	Resettable Total Flow (SCF)	2 08196287
2 Days Ago Flow (SCF)	160360	Reset Time	11:33:3
3 Days Ago Flow (SCF)	163823	Reset Date	11/21/08
4 Days Ago Flow (SCF)	164890		
5 Days Ago Flow (SCF)	170807	**Area LEL** (Calibrated Detronics Methane Sensors)	
6 Days Ago Flow (SCF)	167790	Area #1 LEL	0
7 Days Ago Flow (SCF)	167397	Area #2 LEL	0

Date And Time			
Date	6/28/13	Time	7:54

KEY

°F = degrees Fahrenheit
% Vol = percent by volume
psi = pounds per square inch
in WC = inches water column
in Hg = inches Mercury
SP = Set Point
SCFM = standard cubic feet per minute
SCF = Standard Cubic Feet
NA = Not Available

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/03/2013 8:09 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1479.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/04/2013 9:04 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1479.1 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/07/2013 7:36 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1479.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/10/2013 7:34 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.0 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/11/2013

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.1 GAL

1480.1

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/12/2013 6:00 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/13/2013 5:53 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.2 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/14/2013 6:18 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.3 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/17/2013 6:12 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.4 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/18/2013 8:10 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.5 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/19/2013 7:39 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.5 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/20/2013 8:03 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.5 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/21/2013 7:19 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.6 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/24/2013 6:48 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.7 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/25/2013 7:16 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/26/2013 8:03 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.8 GAL

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/27/2013 6:11 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1480.9 GAL

6/28/13

REMEDIAITION OF PENN.AVE
LANDFILL
1750 PENNSYLVANIA AVE.
BROOKLYN NY
GAS CONDENSATE TANK

06/28/2013 7:52 AM

TANK INVENTORY SUMMARY

(GROSS VOLUME)

TANK 1 1481.0 GAL

1481.0 gallons

Landfill Gas Management System

LFG-2 Biweekly Inspections

(April, May and June, 2013)

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

		Date:	4/2/13					4/4/13			
		Time:	6:57					7:03			
		Technician:	JM					JM			
1. OPERATING BLOWER (Circle)			**301**			**302**		**301**			**302**
1A	Noise or Vibration		~~OK~~			Bad		~~OK~~			Bad
1B	Measurable or Odiferous Gas Leaks		~~No~~			Yes		~~No~~			Yes
2. CONTROL PANEL – Motor Control											
2A	Blower Running Light (Circle)		Off			~~On~~		Off			~~On~~
2B	Blower 1 or 2 Current Alarm		~~Off~~			On		~~Off~~			On
2C	High Motor Current Alarm		~~Off~~			On		~~Off~~			On
2D	Alarm Shutdown Reset Button										
3. CONTROL PANEL											
3A	Panel Power Switch		Off			~~On~~		Off			~~On~~
3B	System		Test	Off		~~Auto~~		Test	Off		~~Auto~~
3C	Blower Operation		Test	Off		~~Auto~~		Test	Off		~~Auto~~
3D	Blower Run Green Light		Off			~~On~~		Off			~~On~~
3E	Purge System		Test	Off		~~Auto~~		Test	Off		~~Auto~~
3F	Purge On Green Light		~~Off~~			On		~~Off~~			On
3G	Flare Pilot		Test			~~Auto~~		Test			~~Auto~~
3H	Flame On Green Light		Off			~~On~~		Off			~~On~~
3I	Auxiliary Fuel (Natural Gas)		Hand	Off		Auto		Hand	Off		Auto
3J	Flare Shutdown Valve		Open	Closed		~~Auto~~		Open	Closed		~~Auto~~
3K	Shutdown Valve Open Green Light		~~Off~~			On		~~Off~~			On
3L	Condensate Tank Overfill Alarm Amber Light		~~Off~~			On		~~Off~~			On
3M	Condensate Tank High Alarm Light		~~Off~~			On		~~Off~~			On
3N	Condensate Tank Leak Alarm Light		~~Off~~			On		~~Off~~			On
3O	Condensate Tank Alarm Test		~~Yes~~			No		~~Yes~~			No
3P	Condensate Tank Power Green Light		~~Off~~			On		~~Off~~			On
3Q	Condensate Tank Warning Amber Light		~~Off~~			On		~~Off~~			On
3R	Condensate Tank Alarm Red Light		~~Off~~			On		~~Off~~			On
4. FLARE											
4A	Flame Condition (Color & Stability)		~~Good~~			Bad		~~Good~~			Bad
4B	Abnormal Burner Hot Spots		Yes			~~No~~		Yes			~~No~~
4C	Unusual Sounds or Odors		Yes			~~No~~		Yes			~~No~~
4D	Damper Motor Running		~~Yes~~			No		~~Yes~~			No
4E	Manual Damper Position – Left Lever		Up			~~Down~~		Up			~~Down~~
4F	Manual Damper Position – Right Lever		Up			~~Down~~		Up			~~Down~~
5. PIPING											
5A	Piping General Condition		OK					OK			
5B	Inlet Valve Position					% Open					% Open
5C	Gauges Operational		~~Yes~~			No		~~Yes~~			No
6. SITE CONDITIONS (Vandalism, Cleanliness)			~~Good~~			Bad		~~Good~~			Bad
7. SUPPLEMENTAL NATURAL GAS VALVE			Open			~~Closed~~		Open			~~Closed~~
8. NATURAL GAS METER READING (CUFT)	Temp compensated		4248991					4248991			
	Non-compensated		4146196					4146196			

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	9/9/13		9/11/13
Time:	6:53		7:25
Technician:	JM		JM

1. OPERATING BLOWER (Circle)		**301**		**302**	**301**		**302**
1A	Noise or Vibration	OK		Bad	OK		Bad
1B	Measurable or Odiferous Gas Leaks	No		Yes	No		Yes
2. CONTROL PANEL – Motor Control							
2A	Blower Running Light (Circle)	Off		On	Off		On
2B	Blower 1 or 2 Current Alarm	Off		On	Off		On
2C	High Motor Current Alarm	Off		On	Off		On
2D	Alarm Shutdown Reset Button						
3. CONTROL PANEL							
3A	Panel Power Switch	Off		On	Off		On
3B	System	Test	Off	Auto	Test	Off	Auto
3C	Blower Operation	Test	Off	Auto	Test	Off	Auto
3D	Blower Run Green Light	Off		On	Off		On
3E	Purge System	Test	Off	Auto	Test	Off	Auto
3F	Purge On Green Light	Off		On	Off		On
3G	Flare Pilot	Test		Auto	Test		Auto
3H	Flame On Green Light	Off		On	Off		On
3I	Auxiliary Fuel (Natural Gas)	Hand	Off	Auto	Hand	Off	Auto
3J	Flare Shutdown Valve	Open	Closed	Auto	Open	Closed	Auto
3K	Shutdown Valve Open Green Light	Off		On	Off		On
3L	Condensate Tank Overfill Alarm Amber Light	Off		On	Off		On
3M	Condensate Tank High Alarm Light	Off		On	Off		On
3N	Condensate Tank Leak Alarm Light	Off		On	Off		On
3O	Condensate Tank Alarm Test	Yes		No	Yes		No
3P	Condensate Tank Power Green Light	Off		On	Off		On
3Q	Condensate Tank Warning Amber Light	Off		On	Off		On
3R	Condensate Tank Alarm Red Light	Off		On	Off		On
4. FLARE							
4A	Flame Condition (Color & Stability)	Good		Bad	Good		Bad
4B	Abnormal Burner Hot Spots	Yes		No	Yes		No
4C	Unusual Sounds or Odors	Yes		No	Yes		No
4D	Damper Motor Running	Yes		No	Yes		No
4E	Manual Damper Position – Left Lever	Up		Down	Up		Down
4F	Manual Damper Position – Right Lever	Up		Down	Up		Down
5. PIPING							
5A	Piping General Condition	OK			OK		
5B	Inlet Valve Position			% Open			% Open
5C	Gauges Operational	Yes		No	Yes		No
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good		Bad	Good		Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open		Closed	Open		Closed
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4248991			4248991		
	Non-compensated	4146190			4146190		

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	4/16/13		4-18-13
Time:	7:34		7:49
Technician:	TM		EEM
1. OPERATING BLOWER (Circle)	**301**	**302**	**301**	**302**
1A Noise or Vibration	OK	Bad	OK	Bad
1B Measurable or Odiferous Gas Leaks	No	Yes	No	Yes
2. CONTROL PANEL – Motor Control				
2A Blower Running Light (Circle)	Off	On	Off	On
2B Blower 1 or 2 Current Alarm	Off	On	Off	On
2C High Motor Current Alarm	Off	On	Off	On
2D Alarm Shutdown Reset Button				
3. CONTROL PANEL				
3A Panel Power Switch	Off	On	Off	On
3B System	Test / Off / Auto		Test / Off / Auto	
3C Blower Operation	Test / Off / Auto		Test / Off / Auto	
3D Blower Run Green Light	Off	On	Off	On
3E Purge System	Test / Off / Auto		Test / Off / Auto	
3F Purge On Green Light	Off	On	Off	On
3G Flare Pilot	Test	Auto	Test	Auto
3H Flame On Green Light	Off	On	Off	On
3I Auxiliary Fuel (Natural Gas)	Hand / Off / Auto		Hand / Off / Auto	
3J Flare Shutdown Valve	Open / Closed / Auto		Open / Closed / Auto	
3K Shutdown Valve Open Green Light	Off	On	Off	On
3L Condensate Tank Overfill Alarm Amber Light	Off	On	Off	On
3M Condensate Tank High Alarm Light	Off	On	Off	On
3N Condensate Tank Leak Alarm Light	Off	On	Off	On
3O Condensate Tank Alarm Test	Yes	No	Yes	No
3P Condensate Tank Power Green Light	Off	On	Off	On
3Q Condensate Tank Warning Amber Light	Off	On	Off	On
3R Condensate Tank Alarm Red Light	Off	On	Off	On
4. FLARE				
4A Flame Condition (Color & Stability)	Good	Bad	Good	Bad
4B Abnormal Burner Hot Spots	Yes	No	Yes	No
4C Unusual Sounds or Odors	Yes	No	Yes	No
4D Damper Motor Running	Yes	No	Yes	No
4E Manual Damper Position – Left Lever	Up	Down	Up	Down
4F Manual Damper Position – Right Lever	Up	Down	Up	Down
5. PIPING				
5A Piping General Condition	OK		OK	
5B Inlet Valve Position	% Open		% Open	
5C Gauges Operational	Yes	No	Yes	No
6. SITE CONDITIONS (Vandalism, Cleanliness)	Good	Bad	Good	Bad
7. SUPPLEMENTAL NATURAL GAS VALVE	Open	Closed	Open	Closed
8. NATURAL GAS METER READING (CUFT) Temp compensated	4248991		4248991	
Non-compensated	4146196		4146196	

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

		Date:	4/23/13				4/25/13				
		Time:	6:23				6:45				
		Technician:	JM				JM				
1. OPERATING BLOWER (Circle)			**301**			**302**	**301**			**302**	
1A	Noise or Vibration		~~OK~~			Bad	~~OK~~			Bad	
1B	Measurable or Odiferous Gas Leaks		~~No~~			Yes	~~No~~			Yes	
2. CONTROL PANEL – Motor Control											
2A	Blower Running Light (Circle)		Off			~~On~~	Off			~~On~~	
2B	Blower 1 or 2 Current Alarm		~~Off~~			On	~~Off~~			On	
2C	High Motor Current Alarm		~~Off~~			On	~~Off~~			On	
2D	Alarm Shutdown Reset Button										
3. CONTROL PANEL											
3A	Panel Power Switch		Off			~~On~~	Off			~~On~~	
3B	System		Test	Off		~~Auto~~	Test	Off		~~Auto~~	
3C	Blower Operation		Test	Off		~~Auto~~	Test	Off		~~Auto~~	
3D	Blower Run Green Light		Off			~~On~~	Off			~~On~~	
3E	Purge System		Test	Off		~~Auto~~	Test	Off		~~Auto~~	
3F	Purge On Green Light		~~Off~~			On	~~Off~~			On	
3G	Flare Pilot		Test			~~Auto~~	Test			~~Auto~~	
3H	Flame On Green Light		Off			~~On~~	Off			~~On~~	
3I	Auxiliary Fuel (Natural Gas)		Hand	Off		Auto	Hand	Off		Auto	
3J	Flare Shutdown Valve		Open	Closed		~~Auto~~	Open	Closed		~~Auto~~	
3K	Shutdown Valve Open Green Light		~~Off~~			On	~~Off~~			On	
3L	Condensate Tank Overfill Alarm Amber Light		~~Off~~			On	~~Off~~			On	
3M	Condensate Tank High Alarm Light		~~Off~~			On	~~Off~~			On	
3N	Condensate Tank Leak Alarm Light		~~Off~~			On	~~Off~~			On	
3O	Condensate Tank Alarm Test		~~Yes~~			No	~~Yes~~			No	
3P	Condensate Tank Power Green Light		~~Off~~			On	~~Off~~			On	
3Q	Condensate Tank Warning Amber Light		~~Off~~			On	~~Off~~			On	
3R	Condensate Tank Alarm Red Light		~~Off~~			On	~~Off~~			On	
4. FLARE											
4A	Flame Condition (Color & Stability)		~~Good~~			Bad	~~Good~~			Bad	
4B	Abnormal Burner Hot Spots		Yes			~~No~~	Yes			~~No~~	
4C	Unusual Sounds or Odors		Yes			~~No~~	Yes			~~No~~	
4D	Damper Motor Running		~~Yes~~			No	~~Yes~~			No	
4E	Manual Damper Position – Left Lever		Up			~~Down~~	Up			~~Down~~	
4F	Manual Damper Position – Right Lever		Up			~~Down~~	Up			~~Down~~	
5. PIPING											
5A	Piping General Condition		OK				OK				
5B	Inlet Valve Position					% Open				% Open	
5C	Gauges Operational		~~Yes~~			No	~~Yes~~			No	
6. SITE CONDITIONS (Vandalism, Cleanliness)			~~Good~~			Bad	~~Good~~			Bad	
7. SUPPLEMENTAL NATURAL GAS VALVE			Open			~~Closed~~	Open			~~Closed~~	
8. NATURAL GAS METER READING (CUFT)	Temp compensated		4148991				4148991				
	Non-compensated		4146196				4146196				

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	4/30/13		
Time:	7.01		
Technician:	JM		

		301			302			301			302		
1. OPERATING BLOWER (Circle)													
1A	Noise or Vibration	~~OK~~			Bad			OK			Bad		
1B	Measurable or Odiferous Gas Leaks	~~No~~			Yes			No			Yes		
2. CONTROL PANEL – Motor Control													
2A	Blower Running Light (Circle)	Off			~~On~~			Off			On		
2B	Blower 1 or 2 Current Alarm	~~Off~~			On			Off			On		
2C	High Motor Current Alarm	~~Off~~			On			Off			On		
2D	Alarm Shutdown Reset Button												
3. CONTROL PANEL													
3A	Panel Power Switch	Off			~~On~~			Off			On		
3B	System	Test	Off		~~Auto~~			Test	Off		Auto		
3C	Blower Operation	Test	Off		~~Auto~~			Test	Off		Auto		
3D	Blower Run Green Light	Off			~~On~~			Off			On		
3E	Purge System	Test	Off		~~Auto~~			Test	Off		Auto		
3F	Purge On Green Light	~~Off~~			On			Off			On		
3G	Flare Pilot	Test			~~Auto~~			Test			Auto		
3H	Flame On Green Light	Off			~~On~~			Off			On		
3I	Auxiliary Fuel (Natural Gas)	Hand	Off		Auto			Hand	Off		Auto		
3J	Flare Shutdown Valve	Open	Closed		~~Auto~~			Open	Closed		Auto		
3K	Shutdown Valve Open Green Light	~~Off~~			On			Off			On		
3L	Condensate Tank Overfill Alarm Amber Light	~~Off~~			On			Off			On		
3M	Condensate Tank High Alarm Light	~~Off~~			On			Off			On		
3N	Condensate Tank Leak Alarm Light	~~Off~~			On			Off			On		
3O	Condensate Tank Alarm Test	~~Yes~~			No			Yes			No		
3P	Condensate Tank Power Green Light	~~Off~~			On			Off			On		
3Q	Condensate Tank Warning Amber Light	~~Off~~			On			Off			On		
3R	Condensate Tank Alarm Red Light	~~Off~~			On			Off			On		
4. FLARE													
4A	Flame Condition (Color & Stability)	~~Good~~			Bad			Good			Bad		
4B	Abnormal Burner Hot Spots	Yes			~~No~~			Yes			No		
4C	Unusual Sounds or Odors	Yes			~~No~~			Yes			No		
4D	Damper Motor Running	~~Yes~~			No			Yes			No		
4E	Manual Damper Position – Left Lever	Up			~~Down~~			Up			Down		
4F	Manual Damper Position – Right Lever	Up			~~Down~~			Up			Down		
5. PIPING													
5A	Piping General Condition	OK						~~OK~~					
5B	Inlet Valve Position	~~OK~~			% Open						% Open		
5C	Gauges Operational	~~Yes~~			No			Yes			No		
6. SITE CONDITIONS (Vandalism, Cleanliness)		~~Good~~			Bad			Good			Bad		
7. SUPPLEMENTAL NATURAL GAS VALVE		Open			~~Closed~~			Open			Closed		
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4448991											
	Non-compensated	4476196											

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	5/2/13		5/7/13	
Time:	7:52		7:37	
Technician:	JM		JM	
1. OPERATING BLOWER (Circle)	**301**	**302**	**301**	**302**
1A Noise or Vibration	OK	Bad	OK	Bad
1B Measurable or Odiferous Gas Leaks	No	Yes	No	Yes
2. CONTROL PANEL – Motor Control				
2A Blower Running Light (Circle)	Off	On	Off	On
2B Blower 1 or 2 Current Alarm	Off	On	Off	On
2C High Motor Current Alarm	Off	On	Off	On
2D Alarm Shutdown Reset Button				
3. CONTROL PANEL				
3A Panel Power Switch	Off	On	Off	On
3B System	Test / Off / Auto		Test / Off / Auto	
3C Blower Operation	Test / Off / Auto		Test / Off / Auto	
3D Blower Run Green Light	Off	On	Off	On
3E Purge System	Test / Off / Auto		Test / Off / Auto	
3F Purge On Green Light	Off	On	Off	On
3G Flare Pilot	Test	Auto	Test	Auto
3H Flame On Green Light	Off	On	Off	On
3I Auxiliary Fuel (Natural Gas)	Hand / Off / Auto		Hand / Off / Auto	
3J Flare Shutdown Valve	Open / Closed / Auto		Open / Closed / Auto	
3K Shutdown Valve Open Green Light	Off	On	Off	On
3L Condensate Tank Overfill Alarm Amber Light	Off	On	Off	On
3M Condensate Tank High Alarm Light	Off	On	Off	On
3N Condensate Tank Leak Alarm Light	Off	On	Off	On
3O Condensate Tank Alarm Test	Yes	No	Yes	No
3P Condensate Tank Power Green Light	Off	On	Off	On
3Q Condensate Tank Warning Amber Light	Off	On	Off	On
3R Condensate Tank Alarm Red Light	Off	On	Off	On
4. FLARE				
4A Flame Condition (Color & Stability)	Good	Bad	Good	Bad
4B Abnormal Burner Hot Spots	Yes	No	Yes	No
4C Unusual Sounds or Odors	Yes	No	Yes	No
4D Damper Motor Running	Yes	No	Yes	No
4E Manual Damper Position – Left Lever	Up	Down	Up	Down
4F Manual Damper Position – Right Lever	Up	Down	Up	Down
5. PIPING				
5A Piping General Condition	OK		OK	
5B Inlet Valve Position	100	% Open	100	% Open
5C Gauges Operational	Yes	No	Yes	No
6. SITE CONDITIONS (Vandalism, Cleanliness)	Good	Bad	Good	Bad
7. SUPPLEMENTAL NATURAL GAS VALVE	Open	Closed	Open	Closed
8. NATURAL GAS METER READING (CUFT) Temp compensated	4249059		4249059	
Non-compensated	4146265		4146265	

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	5/9/13		5/14/13	
Time:	7:43		8:08	
Technician:	JM		JM	

1. OPERATING BLOWER (Circle)		**301**		**302**	**301**	**302**
1A	Noise or Vibration	OK		Bad	OK	Bad
1B	Measurable or Odiferous Gas Leaks	No		Yes	No	Yes
2. CONTROL PANEL – Motor Control						
2A	Blower Running Light (Circle)	Off		On	Off	On
2B	Blower 1 or 2 Current Alarm	Off		On	Off	On
2C	High Motor Current Alarm	Off		On	Off	On
2D	Alarm Shutdown Reset Button					
3. CONTROL PANEL						
3A	Panel Power Switch	Off		On	Off	On
3B	System	Test	Off	Auto	Test Off	Auto
3C	Blower Operation	Test	Off	Auto	Test Off	Auto
3D	Blower Run Green Light	Off		On	Off	On
3E	Purge System	Test	Off	Auto	Test Off	Auto
3F	Purge On Green Light	Off		On	Off	On
3G	Flare Pilot	Test		Auto	Test	Auto
3H	Flame On Green Light	Off		On	Off	On
3I	Auxiliary Fuel (Natural Gas)	Hand	Off	Auto	Hand Off	Auto
3J	Flare Shutdown Valve	Open	Closed	Auto	Open Closed	Auto
3K	Shutdown Valve Open Green Light	Off		On	Off	On
3L	Condensate Tank Overfill Alarm Amber Light	Off		On	Off	On
3M	Condensate Tank High Alarm Light	Off		On	Off	On
3N	Condensate Tank Leak Alarm Light	Off		On	Off	On
3O	Condensate Tank Alarm Test	Yes		No	Yes	No
3P	Condensate Tank Power Green Light	Off		On	Off	On
3Q	Condensate Tank Warning Amber Light	Off		On	Off	On
3R	Condensate Tank Alarm Red Light	Off		On	Off	On
4. FLARE						
4A	Flame Condition (Color & Stability)	Good		Bad	Good	Bad
4B	Abnormal Burner Hot Spots	Yes		No	Yes	No
4C	Unusual Sounds or Odors	Yes		No	Yes	No
4D	Damper Motor Running	Yes		No	Yes	No
4E	Manual Damper Position – Left Lever	Up		Down	Up	Down
4F	Manual Damper Position – Right Lever	Up		Down	Up	Down
5. PIPING						
5A	Piping General Condition	ok			ok	
5B	Inlet Valve Position	100		% Open	100	% Open
5C	Gauges Operational	Yes		No	Yes	No
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good		Bad	Good	Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open		Closed	Open	Closed
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249059			4249059	
	Non-compensated	4146265			4146265	

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	5-16-13		5/21/13
Time:	7:43AM		7:56
Technician:	EE McLEAN		JM

		301	302	301	302
1. OPERATING BLOWER (Circle)					
1A	Noise or Vibration	OK	Bad	OK	Bad
1B	Measurable or Odiferous Gas Leaks	No	Yes	No	Yes
2. CONTROL PANEL – Motor Control					
2A	Blower Running Light (Circle)	Off	On	Off	On
2B	Blower 1 or 2 Current Alarm	Off	On	Off	On
2C	High Motor Current Alarm	Off	On	Off	On
2D	Alarm Shutdown Reset Button				
3. CONTROL PANEL					
3A	Panel Power Switch	Off	On	Off	On
3B	System	Test / Off / Auto		Test / Off / Auto	
3C	Blower Operation	Test / Off / Auto		Test / Off / Auto	
3D	Blower Run Green Light	Off	On	Off	On
3E	Purge System	Test / Off / Auto		Test / Off / Auto	
3F	Purge On Green Light	Off	On	Off	On
3G	Flare Pilot	Test	Auto	Test	Auto
3H	Flame On Green Light	Off	On	Off	On
3I	Auxiliary Fuel (Natural Gas)	Hand / Off / Auto		Hand / Off / Auto	
3J	Flare Shutdown Valve	Open / Closed / Auto		Open / Closed / Auto	
3K	Shutdown Valve Open Green Light	Off	On	Off	On
3L	Condensate Tank Overfill Alarm Amber Light	Off	On	Off	On
3M	Condensate Tank High Alarm Light	Off	On	Off	On
3N	Condensate Tank Leak Alarm Light	Off	On	Off	On
3O	Condensate Tank Alarm Test	Yes	No	Yes	No
3P	Condensate Tank Power Green Light	Off	On	Off	On
3Q	Condensate Tank Warning Amber Light	Off	On	Off	On
3R	Condensate Tank Alarm Red Light	Off	On	Off	On
4. FLARE					
4A	Flame Condition (Color & Stability)	Good	Bad	Good	Bad
4B	Abnormal Burner Hot Spots	Yes	No	Yes	No
4C	Unusual Sounds or Odors	Yes	No	Yes	No
4D	Damper Motor Running	Yes	No	Yes	No
4E	Manual Damper Position – Left Lever	Up	Down	Up	Down
4F	Manual Damper Position – Right Lever	Up	Down	Up	Down
5. PIPING					
5A	Piping General Condition	GOOD		OK	
5B	Inlet Valve Position	100 % Open		100 % Open	
5C	Gauges Operational	Yes	No	Yes	No
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good	Bad	Good	Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open	Closed	Open	Closed
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249055		4249059	
	Non-compensated	4146265		4146265	

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	5/23/13		5/28/13	
Time:	8:00		7:44	
Technician:	JM		JM	

1. OPERATING BLOWER (Circle)		**301**		**302**	**301**		**302**
1A	Noise or Vibration	~~OK~~		Bad	~~OK~~		Bad
1B	Measurable or Odiferous Gas Leaks	~~No~~		Yes	~~No~~		Yes
2. CONTROL PANEL – Motor Control							
2A	Blower Running Light (Circle)	Off		~~On~~	Off		~~On~~
2B	Blower 1 or 2 Current Alarm	~~Off~~		On	~~Off~~		On
2C	High Motor Current Alarm	~~Off~~		On	~~Off~~		On
2D	Alarm Shutdown Reset Button						
3. CONTROL PANEL							
3A	Panel Power Switch	Off		~~On~~	Off		~~On~~
3B	System	Test	Off	~~Auto~~	Test	Off	~~Auto~~
3C	Blower Operation	Test	Off	~~Auto~~	Test	Off	~~Auto~~
3D	Blower Run Green Light	Off		~~On~~	Off		~~On~~
3E	Purge System	Test	Off	~~Auto~~	Test	Off	~~Auto~~
3F	Purge On Green Light	~~Off~~		On	~~Off~~		On
3G	Flare Pilot	Test		~~Auto~~	Test		~~Auto~~
3H	Flame On Green Light	Off		~~On~~	Off		~~On~~
3I	Auxiliary Fuel (Natural Gas)	Hand	Off	~~Auto~~	Hand	Off	~~Auto~~
3J	Flare Shutdown Valve	Open	Closed	~~Auto~~	Open	Closed	~~Auto~~
3K	Shutdown Valve Open Green Light	~~Off~~		On	~~Off~~		On
3L	Condensate Tank Overfill Alarm Amber Light	~~Off~~		On	~~Off~~		On
3M	Condensate Tank High Alarm Light	~~Off~~		On	~~Off~~		On
3N	Condensate Tank Leak Alarm Light	~~Off~~		On	~~Off~~		On
3O	Condensate Tank Alarm Test	~~Yes~~		No	~~Yes~~		No
3P	Condensate Tank Power Green Light	~~Off~~		On	~~Off~~		On
3Q	Condensate Tank Warning Amber Light	~~Off~~		On	~~Off~~		On
3R	Condensate Tank Alarm Red Light	~~Off~~		On	~~Off~~		On
4. FLARE							
4A	Flame Condition (Color & Stability)	~~Good~~		Bad	~~Good~~		Bad
4B	Abnormal Burner Hot Spots	Yes		~~No~~	Yes		~~No~~
4C	Unusual Sounds or Odors	Yes		~~No~~	Yes		~~No~~
4D	Damper Motor Running	~~Yes~~		No	~~Yes~~		No
4E	Manual Damper Position – Left Lever	Up		~~Down~~	Up		~~Down~~
4F	Manual Damper Position – Right Lever	Up		~~Down~~	Up		~~Down~~
5. PIPING							
5A	Piping General Condition	ok			ok		
5B	Inlet Valve Position	100		% Open	100		% Open
5C	Gauges Operational	~~Yes~~		No	~~Yes~~		No
6. SITE CONDITIONS (Vandalism, Cleanliness)		~~Good~~		Bad	~~Good~~		Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open		~~Closed~~	Open		~~Closed~~
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249059			4249059		
	Non-compensated	4146265			4146265		

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

		Date:	5/30/13					
		Time:	7:48					
		Technician:	JM					
1. OPERATING BLOWER (Circle)			**301**		**302**	**301**		**302**
1A	Noise or Vibration		OK		Bad	OK		Bad
1B	Measurable or Odiferous Gas Leaks		No		Yes	No		Yes
2. CONTROL PANEL – Motor Control								
2A	Blower Running Light (Circle)		Off		On	Off		On
2B	Blower 1 or 2 Current Alarm		Off		On	Off		On
2C	High Motor Current Alarm		Off		On	Off		On
2D	Alarm Shutdown Reset Button							
3. CONTROL PANEL								
3A	Panel Power Switch		Off		On	Off		On
3B	System		Test	Off	Auto	Test	Off	Auto
3C	Blower Operation		Test	Off	Auto	Test	Off	Auto
3D	Blower Run Green Light		Off		On	Off		On
3E	Purge System		Test	Off	Auto	Test	Off	Auto
3F	Purge On Green Light		Off		On	Off		On
3G	Flare Pilot		Test		Auto	Test		Auto
3H	Flame On Green Light		Off		On	Off		On
3I	Auxiliary Fuel (Natural Gas)		Hand	Off	Auto	Hand	Off	Auto
3J	Flare Shutdown Valve		Open	Closed	Auto	Open	Closed	Auto
3K	Shutdown Valve Open Green Light		Off		On	Off		On
3L	Condensate Tank Overfill Alarm Amber Light		Off		On	Off		On
3M	Condensate Tank High Alarm Light		Off		On	Off		On
3N	Condensate Tank Leak Alarm Light		Off		On	Off		On
3O	Condensate Tank Alarm Test		Yes		No	Yes		No
3P	Condensate Tank Power Green Light		Off		On	Off		On
3Q	Condensate Tank Warning Amber Light		Off		On	Off		On
3R	Condensate Tank Alarm Red Light		Off		On	Off		On
4. FLARE								
4A	Flame Condition (Color & Stability)		Good		Bad	Good		Bad
4B	Abnormal Burner Hot Spots		Yes		No	Yes		No
4C	Unusual Sounds or Odors		Yes		No	Yes		No
4D	Damper Motor Running		Yes		No	Yes		No
4E	Manual Damper Position – Left Lever		Up		Down	Up		Down
4F	Manual Damper Position – Right Lever		Up		Down	Up		Down
5. PIPING								
5A	Piping General Condition		ok					
5B	Inlet Valve Position		100		% Open			% Open
5C	Gauges Operational		Yes		No	Yes		No
6. SITE CONDITIONS (Vandalism, Cleanliness)			Good		Bad	Good		Bad
7. SUPPLEMENTAL NATURAL GAS VALVE			Open		Closed	Open		Closed
8. NATURAL GAS METER READING (CUFT)		Temp compensated	4249059					
		Non-compensated	4146265					

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	6/4/13		6/11/13
Time:	9:30		7:23
Technician:	JM		JM

1. OPERATING BLOWER (Circle)		**301**		**302**	**301**		**302**
1A	Noise or Vibration	OK		Bad	OK		Bad
1B	Measurable or Odiferous Gas Leaks	No		Yes	No		Yes
2. CONTROL PANEL – Motor Control							
2A	Blower Running Light (Circle)	Off		On	Off		On
2B	Blower 1 or 2 Current Alarm	Off		On	Off		On
2C	High Motor Current Alarm	Off		On	Off		On
2D	Alarm Shutdown Reset Button						
3. CONTROL PANEL							
3A	Panel Power Switch	Off		On	Off		On
3B	System	Test	Off	Auto	Test	Off	Auto
3C	Blower Operation	Test	Off	Auto	Test	Off	Auto
3D	Blower Run Green Light	Off		On	Off		On
3E	Purge System	Test	Off	Auto	Test	Off	Auto
3F	Purge On Green Light	Off		On	Off		On
3G	Flare Pilot	Test		Auto	Test		Auto
3H	Flame On Green Light	Off		On	Off		On
3I	Auxiliary Fuel (Natural Gas)	Hand	Off	Auto	Hand	Off	Auto
3J	Flare Shutdown Valve	Open	Closed	Auto	Open	Closed	Auto
3K	Shutdown Valve Open Green Light	Off		On	Off		On
3L	Condensate Tank Overfill Alarm Amber Light	Off		On	Off		On
3M	Condensate Tank High Alarm Light	Off		On	Off		On
3N	Condensate Tank Leak Alarm Light	Off		On	Off		On
3O	Condensate Tank Alarm Test	Yes		No	Yes		No
3P	Condensate Tank Power Green Light	Off		On	Off		On
3Q	Condensate Tank Warning Amber Light	Off		On	Off		On
3R	Condensate Tank Alarm Red Light	Off		On	Off		On
4. FLARE							
4A	Flame Condition (Color & Stability)	Good		Bad	Good		Bad
4B	Abnormal Burner Hot Spots	Yes		No	Yes		No
4C	Unusual Sounds or Odors	Yes		No	Yes		No
4D	Damper Motor Running	Yes		No	Yes		No
4E	Manual Damper Position – Left Lever	Up		Down	Up		Down
4F	Manual Damper Position – Right Lever	Up		Down	Up		Down
5. PIPING							
5A	Piping General Condition	OK			OK		
5B	Inlet Valve Position	100		% Open	100		% Open
5C	Gauges Operational	Yes		No	Yes		No
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good		Bad	Good		Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open		Closed	Open		Closed
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249059			4249131		
	Non-compensated	4146265			4146330		

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

	Date:	6/13/13	6/17/13
	Time:	5:58	6:15
	Technician:	JM	JM
1. OPERATING BLOWER (Circle)		**301** / **302**	**301** / **302**
1A	Noise or Vibration	OK / Bad	OK / Bad
1B	Measurable or Odiferous Gas Leaks	No / Yes	No / Yes
2. CONTROL PANEL – Motor Control			
2A	Blower Running Light (Circle)	Off / On	Off / On
2B	Blower 1 or 2 Current Alarm	Off / On	Off / On
2C	High Motor Current Alarm	Off / On	Off / On
2D	Alarm Shutdown Reset Button		
3. CONTROL PANEL			
3A	Panel Power Switch	Off / On	Off / On
3B	System	Test / Off / Auto	Test / Off / Auto
3C	Blower Operation	Test / Off / Auto	Test / Off / Auto
3D	Blower Run Green Light	Off / On	Off / On
3E	Purge System	Test / Off / Auto	Test / Off / Auto
3F	Purge On Green Light	Off / On	Off / On
3G	Flare Pilot	Test / Auto	Test / Auto
3H	Flame On Green Light	Off / On	Off / On
3I	Auxiliary Fuel (Natural Gas)	Hand / Off / Auto	Hand / Off / Auto
3J	Flare Shutdown Valve	Open / Closed / Auto	Open / Closed / Auto
3K	Shutdown Valve Open Green Light	Off / On	Off / On
3L	Condensate Tank Overfill Alarm Amber Light	Off / On	Off / On
3M	Condensate Tank High Alarm Light	Off / On	Off / On
3N	Condensate Tank Leak Alarm Light	Off / On	Off / On
3O	Condensate Tank Alarm Test	Yes / No	Yes / No
3P	Condensate Tank Power Green Light	Off / On	Off / On
3Q	Condensate Tank Warning Amber Light	Off / On	Off / On
3R	Condensate Tank Alarm Red Light	Off / On	Off / On
4. FLARE			
4A	Flame Condition (Color & Stability)	Good / Bad	Good / Bad
4B	Abnormal Burner Hot Spots	Yes / No	Yes / No
4C	Unusual Sounds or Odors	Yes / No	Yes / No
4D	Damper Motor Running	Yes / No	Yes / No
4E	Manual Damper Position – Left Lever	Up / Down	Up / Down
4F	Manual Damper Position – Right Lever	Up / Down	Up / Down
5. PIPING			
5A	Piping General Condition	OK	OK
5B	Inlet Valve Position	100 % Open	100 % Open
5C	Gauges Operational	Yes / No	Yes / No
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good / Bad	Good / Bad
7. SUPPLEMENTAL NATURAL GAS VALVE		Open / Closed	Open / Closed
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249131	4249131
	Non-compensated	4146330	4146330

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

Date:	6-18-13		6/20/13
Time:	7:50am		8:06
Technician:	EEM		JM

1. OPERATING BLOWER (Circle)		**301**	**302**		**301**	**302**	
1A	Noise or Vibration	OK	Bad		OK	Bad	
1B	Measurable or Odiferous Gas Leaks	No	Yes		No	Yes	
2. CONTROL PANEL – Motor Control							
2A	Blower Running Light (Circle)	Off	On		Off	On	
2B	Blower 1 or 2 Current Alarm	Off	On		Off	On	
2C	High Motor Current Alarm	Off	On		Off	On	
2D	Alarm Shutdown Reset Button						
3. CONTROL PANEL							
3A	Panel Power Switch	Off	On		Off	On	
3B	System	Test	Off	Auto	Test	Off	Auto
3C	Blower Operation	Test	Off	Auto	Test	Off	Auto
3D	Blower Run Green Light	Off	On		Off	On	
3E	Purge System	Test	Off	Auto	Test	Off	Auto
3F	Purge On Green Light	Off	On		Off	On	
3G	Flare Pilot	Test	Auto		Test	Auto	
3H	Flame On Green Light	Off	On		Off	On	
3I	Auxiliary Fuel (Natural Gas)	Hand	Off	Auto	Hand	Off	Auto
3J	Flare Shutdown Valve	Open	Closed	Auto	Open	Closed	Auto
3K	Shutdown Valve Open Green Light	Off	On		Off	On	
3L	Condensate Tank Overfill Alarm Amber Light	Off	On		Off	On	
3M	Condensate Tank High Alarm Light	Off	On		Off	On	
3N	Condensate Tank Leak Alarm Light	Off	On		Off	On	
3O	Condensate Tank Alarm Test	Yes	No		Yes	No	
3P	Condensate Tank Power Green Light	Off	On		Off	On	
3Q	Condensate Tank Warning Amber Light	Off	On		Off	On	
3R	Condensate Tank Alarm Red Light	Off	On		Off	On	
4. FLARE							
4A	Flame Condition (Color & Stability)	Good	Bad		Good	Bad	
4B	Abnormal Burner Hot Spots	Yes	No		Yes	No	
4C	Unusual Sounds or Odors	Yes	No		Yes	No	
4D	Damper Motor Running	Yes	No		Yes	No	
4E	Manual Damper Position – Left Lever	Up	Down		Up	Down	
4F	Manual Damper Position – Right Lever	Up	Down		Up	Down	
5. PIPING							
5A	Piping General Condition	Good			ok		
5B	Inlet Valve Position		% Open		100	% Open	
5C	Gauges Operational	Yes	No		Yes	No	
6. SITE CONDITIONS (Vandalism, Cleanliness)		Good	Bad		Good	Bad	
7. SUPPLEMENTAL NATURAL GAS VALVE		Open	Closed		Open	Closed	
8. NATURAL GAS METER READING (CUFT)	Temp compensated	4249137			424913		
	Non-compensated	4146330			4146330		

PENNSYLVANIA AVENUE LANDFILL GAS MANAGEMENT SYSTEM

FORM LFG-2

WEEKLY / BI-WEEKLY INSPECTION

		Date:	6/25/13	6/27/13
		Time:	7:20	6:15
		Technician:	JM	JM
1. OPERATING BLOWER (Circle)			**301** / ~~302~~	**301** / ~~302~~
1A	Noise or Vibration		~~OK~~ / Bad	~~OK~~ / Bad
1B	Measurable or Odiferous Gas Leaks		~~No~~ / Yes	~~No~~ / Yes
2. CONTROL PANEL – Motor Control				
2A	Blower Running Light (Circle)		Off / ~~On~~	Off / ~~On~~
2B	Blower 1 or 2 Current Alarm		~~Off~~ / On	~~Off~~ / On
2C	High Motor Current Alarm		~~Off~~ / On	~~Off~~ / On
2D	Alarm Shutdown Reset Button			
3. CONTROL PANEL				
3A	Panel Power Switch		Off / ~~On~~	Off / ~~On~~
3B	System		Test / Off / ~~Auto~~	Test / Off / ~~Auto~~
3C	Blower Operation		Test / Off / ~~Auto~~	Test / Off / ~~Auto~~
3D	Blower Run Green Light		Off / ~~On~~	Off / ~~On~~
3E	Purge System		Test / Off / ~~Auto~~	Test / Off / ~~Auto~~
3F	Purge On Green Light		~~Off~~ / On	~~Off~~ / On
3G	Flare Pilot		Test / ~~Auto~~	Test / ~~Auto~~
3H	Flame On Green Light		Off / ~~On~~	Off / ~~On~~
3I	Auxiliary Fuel (Natural Gas)		Hand / Off / ~~Auto~~	Hand / Off / ~~Auto~~
3J	Flare Shutdown Valve		Open / Closed / ~~Auto~~	Open / Closed / ~~Auto~~
3K	Shutdown Valve Open Green Light		~~Off~~ / On	~~Off~~ / On
3L	Condensate Tank Overfill Alarm Amber Light		~~Off~~ / On	~~Off~~ / On
3M	Condensate Tank High Alarm Light		~~Off~~ / On	~~Off~~ / On
3N	Condensate Tank Leak Alarm Light		~~Off~~ / On	~~Off~~ / On
3O	Condensate Tank Alarm Test		~~Yes~~ / No	~~Yes~~ / No
3P	Condensate Tank Power Green Light		~~Off~~ / On	~~Off~~ / On
3Q	Condensate Tank Warning Amber Light		~~Off~~ / On	~~Off~~ / On
3R	Condensate Tank Alarm Red Light		~~Off~~ / On	~~Off~~ / On
4. FLARE				
4A	Flame Condition (Color & Stability)		~~Good~~ / Bad	~~Good~~ / Bad
4B	Abnormal Burner Hot Spots		Yes / ~~No~~	Yes / ~~No~~
4C	Unusual Sounds or Odors		Yes / ~~No~~	Yes / ~~No~~
4D	Damper Motor Running		~~Yes~~ / No	~~Yes~~ / No
4E	Manual Damper Position – Left Lever		Up / ~~Down~~	Up / ~~Down~~
4F	Manual Damper Position – Right Lever		Up / ~~Down~~	Up / ~~Down~~
5. PIPING				
5A	Piping General Condition		Good	Good
5B	Inlet Valve Position		100 % Open	100 % Open
5C	Gauges Operational		~~Yes~~ / No	~~Yes~~ / No
6. SITE CONDITIONS (Vandalism, Cleanliness)			~~Good~~ / Bad	~~Good~~ / Bad
7. SUPPLEMENTAL NATURAL GAS VALVE			Open / ~~Closed~~	Open / ~~Closed~~
8. NATURAL GAS METER READING (CUFT)	Temp compensated		424913	424913
	Non-compensated		4146330	4146330

Landfill Gas Management System

LFG-3
Extraction Well Monitoring
Monthly Reports

(April, May and June, 2013)

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Additional Remarks	Weather Conditions	Temp (°F)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		B	EW01	4/2/2013 10:41	0.7	21.4	0	60	-0.7	0.178	-5.21	26	12	Closed	Water Above Valve,		Scattered clouds	38	18	W	29.79
		B	EW02	4/2/2013 9:49	11.8	13.1	0	47	0	0.109	-2.03	22	91	Closed	Water to Top,		Scattered clouds	38	18	W	29.99
		B	EW03	4/2/2013 11:41	21.1	18.9	0	51	-3	0.548	-3.43	49	639	Open	Water Below Valve,		Scattered clouds	38	18	W	29.77
		B	EW04	4/2/2013 11:37	4.7	6.3	0	44	-0.3	-0.133	-5.25	<<>>	<<>>	Closed	Water Below Valve,		Scattered clouds	38	18	W	29.78
		B	EW05	4/3/2013 7:36	0.1	4	14.7	35	-0.3	-0.11	-2.76	<<>>	<<>>	Closed	Dry,		Partly cloudy	34	17	W	29.94
V-6 (at junction with V-5 and V-4) and V-12 (at junction with HDR-B between EW-4 and EW-5)		A	EW06	4/2/2013 11:33	2.6	12.3	0	37	-0.3	-1.069	-0.31	<<>>	<<>>	Fully open	Water to Top,		Scattered clouds	38	18	W	29.78
		A	EW07	4/2/2013 11:59	6.3	17.7	0	38	-0.3	-0.125	-0.31	<<>>	<<>>	Open 4 turns	Water Above Valve,		Scattered clouds	38	18	W	29.77
		A	EW08	4/2/2013 11:11	2.9	21	0	52	-1	-0.076	2.04	<<>>	<<>>	Open 6 turns	Water to Top,	4/22/13, pumped water out of vault and cleaned tracks and drainage.	Scattered clouds	38	18	W	29.77
		A	EW09	4/2/2013 11:04	0.5	19.3	0	37	-0.3	-0.119	-0.79	<<>>	<<>>	Closed	Water Above Valve,		Scattered clouds	38	18	W	29.78
		A	EW10	4/2/2013 10:59	4.3	19.3	0	42	-1.2	-6.08	-0.22	<<>>	<<>>	Open 2 turns	Water to Top,		Scattered clouds	38	18	W	29.77
		A	EW11	4/2/2013 9:10	5.1	16.4	0.6	48	-0.2	6.967	0.07	178	561	Closed	Access is Clear,Water Below Valve,		Scattered clouds	38	18	W	30.01
V-5 (at junction with V-4 and V-6)		A	EW12	4/2/2013 9:22	5.3	17.1	0	48	-0.2	6.866	-0.18	177	573	Closed	Access is Clear,Water Below Valve,		Scattered clouds	38	18	W	30.01
		A	EW13	4/1/2013 13:32	11	20.6	0.1	98	0	23.109	19.84	316	2113	Open 6 turns	Access is Clear,Water Below Valve,		Mostly cloudy	52	13	SSW	29.64
		A	EW14	4/2/2013 8:42	0.7	2.8	18.3	47	-0.5	-0.099	-8.51	<<>>	<<>>	Closed	Water Below Valve,		Scattered clouds	38	18	W	29.81
		A	EW15	4/2/2013 10:51	0	16.2	5.2	43	-0.4	-0.124	-1.33	<<>>	<<>>	Closed	Water Below Valve,		Scattered clouds	38	18	W	29.79
		A	EW16	4/2/2013 10:46	3.3	17.6	0	38	-0.4	-0.12	-7.08	<<>>	<<>>	Closed	Water Below Valve,		Scattered clouds	38	18	W	29.79
V-4		C	EW17	4/2/2013 10:33	33	30.6	0	36	-0.5	-0.108	-7.2	<<>>	<<>>	Open 4 turns	Water Below Valve,		Scattered clouds	38	18	W	29.80
		C	EW18	4/3/2013 6:33	23.2	12.7	0	56	-0.6	-0.057	-0.66	<<>>	<<>>	Open 8 turns	Water Above Valve,		Partly cloudy	34	17	W	29.97
	V-1	C	EW19	4/3/2013 7:16	20	21.7	0.1	57	-3.9	2.222	-5.68	100	1218	Open 8 turns	Water Below Valve,		Partly cloudy	34	17	W	29.93
		C	EW20	4/2/2013 8:55	11.7	21.1	0.2	43	-0.5	-0.102	-3.75	<<>>	<<>>	Open 4 turns	Water Below Valve,		Scattered clouds	38	18	W	29.80
		C	EW21	4/2/2013 9:56	11.4	19	0	56	-0.2	0.007	-5.51	5	38	Open 1 turn	Access is Clear,Water Below Valve,		Scattered clouds	38	18	W	29.97
		C	EW22	4/2/2013 9:30	4.4	15.4	0	52	-0.2	-0.029	-5.35	<<>>	<<>>	Closed	Access is Clear,Water Above Valve,		Scattered clouds	38	18	W	29.98
		C	EW23	4/2/2013 8:48	6.1	18.5	0.2	46	-0.5	0.021	-11.33	9	34	Closed	Water to Top,		Scattered clouds	38	18	W	29.79
		C	EW24	4/2/2013 8:23	19.2	19.9	0	60	-3.1	2.097	-3.5	97	1139	Fully open	Water Above Valve,		Scattered clouds	38	18	W	29.83
		C	EW25	4/2/2013 9:36	12.8	19.2	0	46	-0.3	-0.027	-6.16	<<>>	<<>>	Closed	Access is Clear,Water Below Valve,		Scattered clouds	38	18	W	29.98
		C	EW26	4/2/2013 8:17	14.6	15.9	0	65	-0.7	-0.014	-1.93	<<>>	<<>>	Open 4 turns	Water Above Valve,		Scattered clouds	38	18	W	29.84
		C	EW27	4/2/2013 8:14	2.3	10.5	0.4	55	-0.5	-0.075	-5.04	<<>>	<<>>	Closed	Water Above Valve,		Scattered clouds	38	18	W	29.84

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Additional Remarks	Weather Conditions	Temp (°F)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		D	EW28	4/3/2013 6:43	28.7	14.3	0	57	-0.5	0.296	-0.6	37	653	Fully open	Water Below Valve,		Partly cloudy	34	17	W	29.92
	V-7	D	EW29	4/3/2013 6:51	18.9	11.7	0	46	-0.7	0.285	-0.73	36	420	Fully open	Water to Top,		Partly cloudy	34	17	W	29.93
		D	EW30	4/2/2013 11:18	9.7	23	0	42	-0.2	-0.107	-3.12	<<>>	<<>>	Open 4 turns	Water Above Valve,	4/22/13, pumped water out of vault and cleaned tracks and drainage.	Scattered clouds	38	18	W	29.77
		D	EW31	4/2/2013 11:44	28.8	14.7	0	48	-0.2	-1.126	-0.31	<<>>	<<>>	Open 4 turns	Water Below Valve,		Scattered clouds	38	18	W	29.76
		D	EW32	4/2/2013 11:48	19.7	17.4	0	48	-0.3	0.301	-0.38	37	445	Open 3 turns	Water to Top,	4/22/13, pumped water out of vault and cleaned tracks and drainage.	Scattered clouds	38	18	W	29.77
	V-8	D	EW33	4/2/2013 10:21	26	14	0	64	-0.6	-0.867	-0.51	<<>>	<<>>	Fully open	Water to Top,Temp Probe Problems,	Temp radings can be taken and probe will be replaced as soon as time permits.	Scattered clouds	38	18	W	29.73
		D	EW34	4/2/2013 10:12	23.6	14.7	0	58	-0.5	-0.138	-0.3	<<>>	<<>>	Fully open	Water to Top,	4/22/13, pumped water out of vault and cleaned tracks and drainage.	Scattered clouds	38	18	W	29.74
		D	EW35	4/3/2013 7:27	27.3	16.6	0	94	-0.3	0.116	-0.69	22	371	Fully open	Water Below Valve,		Partly cloudy	34	17	W	29.89
	V-9	D	EW36	4/2/2013 10:08	24.2	16.1	0	44	-1.6	1.207	-0.42	76	1124	Fully open	Water to Top,		Scattered clouds	38	18	W	29.74
		D	EW37	4/2/2013 11:22	17.6	15.8	0	62	-1	-3.201	-0.42	<<>>	<<>>	Fully open	Water to Top,		Scattered clouds	38	18	W	29.74
		D	EW38	4/2/2013 10:24	25.5	15.3	0	44	-0.3	-0.251	-0.45	<<>>	<<>>	Fully open	Water Above Valve,		Scattered clouds	38	18	W	29.73
	V-10	D	EW39	4/2/2013 10:00	26.8	14.3	0	40	-0.2	-0.816	-0.35	<<>>	<<>>	Fully open	Water to Top,		Scattered clouds	38	18	W	29.73
		D	EW40	4/2/2013 9:30	12.1	17.3	0	90	-1.4	-1.135	-0.49	<<>>	<<>>	Open 1-1/2 turns	Water to Top,		Scattered clouds	38	18	W	29.78
		D	EW41	4/2/2013 9:55	23.1	14.6	0	67	-0.3	-3.735	-0.65	<<>>	<<>>	Open 2 turns	Water to Top,		Scattered clouds	38	18	W	29.75
	V-11	D	EW42	4/2/2013 9:50	19.5	16.1	0	50	-0.5	-6.763	-0.36	<<>>	<<>>	Open	Water to Top,Temp Probe Problems,	Temp radings can be taken and probe will be replaced as soon as time permits.	Scattered clouds	38	18	W	29.75
		D	EW43	4/2/2013 9:35	13.6	13.9	3	46	-0.2	1.144	-7.05	72	605	Open 1 turn	Water Below Valve,		Scattered clouds	38	18	W	29.77
		D	EW44	4/2/2013 9:44	20.3	13.2	0	65	-0.7	-3.936	6.1	<<>>	<<>>	Closed	Water to Top,Temp Probe Problems,	Temp radings can be taken and probe will be replaced as soon as time permits.	Scattered clouds	38	18	W	29.75
		D	EW45	4/2/2013 9:39	19.7	12.8	0	48	-0.2	-0.643	-0.3	<<>>	<<>>	Open	Water Above Valve,		Scattered clouds	38	18	W	29.75
		D	EW46	4/1/2013 13:41	26.9	15	0	46	-1.8	-4.98	-0.16	<<>>	<<>>	Open 1 turn	Water Above Valve,		Mostly cloudy	52	13	SSW	29.62

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Weather Conditions	Temp (°F)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		B	EW01	5/2/2013 8:08	0.5	19.6	0.1	97	-0.2	0.056	-3.49	14	4	Closed	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.31
		B	EW02	5/29/2013 6:39	5.2	14.1	0	57	-0.3	-0.32	-5.05	<<>>	<<>>	Closed	Water to Top,	Mostly cloudy	61	Calm		29.94
		B	EW03	5/3/2013 8:44	18.2	18.3	0	55	-3.2	0.78	-3.22	59	655	Open	Water Below Valve,	Scattered clouds	57	8	E	30.28
		B	EW04	5/6/2013 11:03	5.2	6.1	0.7	50	0	0.018	-3.09	8	27	Closed	Water Below Valve,	Overcast	58	Calm		30.10
		B	EW05	5/6/2013 11:08	0	4.5	13.1	49	0	0.023	0.72	9	0	Closed	Dry,	Overcast	58	Calm		30.11
V-6 (at junction with V-5 and V-4) **and V-12** (at junction with HDR-B between EW-4 and EW-5)		A	EW06	5/6/2013 10:43	3.1	10.9	0.3	92	-0.3	0.098	-0.01	19	38	Fully open	Water to Top,Pumped Water Out	Overcast	58	Calm		30.11
		A	EW07	5/3/2013 9:39	8.5	15.6	0.8	50	0	0.044	0.01	13	70	Open 4 turns	Water Above Valve,Pumped Water Out	Scattered clouds	57	8	E	30.30
		A	EW08	5/3/2013 9:24	2.4	19.7	0.4	56	0.5	-0.632	-1.95	<<>>	<<>>	Open 6 turns	Water Below Valve,	Scattered clouds	57	8	E	30.28
		A	EW09	5/2/2013 9:52	0.2	17.6	0	50	0	0.096	0.94	19	3	Closed	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.33
		A	EW10	5/2/2013 9:41	4.4	17.9	0.1	65	-0.6	-0.783	-0.04	<<>>	<<>>	Open 2 turns	Water to Top,Pumped Water Out	Clear	60	10	SSW	30.32
		A	EW11	5/2/2013 9:34	0.7	1.6	18.9	75	0	0.083	0.03	18	8	Closed	Water Below Valve,	Clear	60	10	SSW	30.30
V-5 (at junction with V-4 and V-6)		A	EW12	5/2/2013 9:18	4.6	17.1	0	49	0	0.091	4.6	19	55	Closed	Water Below Valve,	Clear	60	10	SSW	30.34
		A	EW13	5/3/2013 8:21	9.8	21.3	0.4	86	-0.1	-0.011	13.35	<<>>	<<>>	Open 6 turns	Water Below Valve,	Scattered clouds	57	8	E	30.29
		A	EW14	5/3/2013 8:16	1	4.2	15.3	52	-0.2	-0.027	-8.27	<<>>	<<>>	Closed	Water Below Valve,	Scattered clouds	57	8	E	30.28
		A	EW15	5/3/2013 8:11	0.1	15.1	4.2	54	-0.2	-0.02	-1.44	<<>>	<<>>	Closed	Water Below Valve,	Scattered clouds	57	8	E	30.28
		A	EW16	5/2/2013 8:02	2.8	16	0.6	55	-0.1	0.045	-5.9	13	23	Closed	Water Below Valve,	Clear	60	10	SSW	30.31
V-4		C	EW17	5/2/2013 8:21	29.9	27.9	0.2	55	-0.1	0.07	-6.85	17	316	Open 4 turns	Water Below Valve,	Clear	60	10	SSW	30.31
		C	EW18	5/2/2013 8:36	20.8	12.2	0	65	-0.1	0.071	-0.1	17	225	Open 8 turns	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.31
	V-1	C	EW19	5/2/2013 8:48	18.8	19.7	0	67	-3	2.56	-4.07	107	1226	Open 8 turns	Water Below Valve,	Clear	60	10	SSW	30.31
	V-1	C	EW20	5/2/2013 8:31	6.7	10.9	7.8	75	-0.1	0.071	-3.44	17	69	Open 4 turns	Water Below Valve,	Clear	60	10	SSW	30.31
	V-1	C	EW21	5/2/2013 8:26	6.5	11.4	6.9	47	-0.1	0.069	-4.27	17	68	Open 1 turn	Water Below Valve,	Clear	60	10	SSW	30.31
		C	EW22	5/2/2013 8:54	4.1	16	0	48	-0.1	0.09	-4.85	19	48	Closed	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.31
		C	EW23	5/3/2013 8:28	5.6	17.6	0.1	48	-0.1	-0.345	-8.43	<<>>	<<>>	Closed	Water to Top,Pumped Water Out	Scattered clouds	57	8	E	30.27
		C	EW24	5/3/2013 7:55	17.9	19.5	0	62	-2.5	1.938	-3.82	93	1015	Fully open	Water Above Valve,Pumped Water Out	Scattered clouds	57	8	E	30.27
		C	EW25	5/2/2013 9:04	10.4	18.4	0.3	48	0	0.085	-5.77	19	120	Closed	Water Below Valve,	Clear	60	10	SSW	30.32
		C	EW26	5/2/2013 9:08	13	15.1	0	55	-0.3	0.229	-0.88	31	251	Open 4 turns	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.33
		C	EW27	5/2/2013 9:23	1.8	10.6	0	55	0	0.108	-0.99	21	23	Closed	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.33

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Weather Conditions	Temp (^oF)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		D	EW28	5/3/2013 8:49	26.6	13.8	0	58	0	0.025	-0.01	10	171	Fully open	Water Below Valve,	Scattered clouds	57	8	E	30.24
	V-7	D	EW29	5/3/2013 8:55	17.3	11.2	0	50	0	0.012	-0.11	7	76	Fully open	Water to Top,Pumped Water Out	Scattered clouds	57	8	E	30.26
		D	EW30	5/3/2013 9:27	9.3	22.7	0	48	0	0.017	-3.2	8	47	Open 4 turns	Water Below Valve,	Scattered clouds	57	8	E	30.28
		D	EW31	5/3/2013 9:31	17.1	11	0	45	0	-0.675	-0.07	<<>>	<<>>	Open 4 turns	Water Below Valve,	Scattered clouds	57	8	E	30.28
		D	EW32	5/3/2013 9:35	15	18	0	52	-0.1	0.007	-0.07	5	51	Open 3 turns	Water Below Valve,	Scattered clouds	57	8	E	30.29
	V-8	D	EW33	5/3/2013 7:19	23.4	13.4	0	66	-0.4	-1.414	-0.45	<<>>	<<>>	Fully open	Water to Top,Pumped Water OutTemp Probe Problems	Scattered clouds	57	8	E	30.21
		D	EW34	5/3/2013 7:14	21.3	14.2	0	60	-0.1	-0.102	-0.06	<<>>	<<>>	Fully open	Water Below Valve,	Scattered clouds	57	8	E	30.21
		D	EW35	5/3/2013 7:45	24.9	15.6	0	87	-0.2	-0.021	-0.3	<<>>	<<>>	Fully open	Water Below Valve,	Scattered clouds	57	8	E	30.23
	V-9	D	EW36	5/3/2013 7:09	21.2	15.6	0.4	53	-4	4.02	-0.22	138	1792	Fully open	Water to Top,Pumped Water Out	Scattered clouds	57	8	E	30.21
		D	EW37	5/3/2013 9:13	14.9	15	0	56	-0.4	-0.159	-0.07	<<>>	<<>>	Fully open	Water to Top,Pumped Water Out	Scattered clouds	57	8	E	30.25
		D	EW38	5/3/2013 7:35	22.8	14.8	0	53	-0.1	-0.005	-0.16	<<>>	<<>>	Fully open	Water Above Valve,Pumped Water Out	Scattered clouds	57	8	E	30.22
	V-10	D	EW39	5/2/2013 10:50	24.6	13.9	0	55	-0.1	-0.015	0.2	<<>>	<<>>	Fully open	Water to Top,Pumped Water Out	Clear	60	10	SSW	30.26
		D	EW40	5/2/2013 10:03	10.5	16.1	0	50	0.1	0.047	0.06	14	90	Open 1-1/2 turns	Water to Top,Pumped Water Out	Clear	60	10	SSW	30.30
		D	EW41	5/2/2013 10:40	20.3	13.7	0	75	-0.1	-5.527	0.03	<<>>	<<>>	Open 2 turns	Water to Top,Pumped Water Out	Clear	60	10	SSW	30.28
	V-11	D	EW42	5/2/2013 11:00	17.4	14.8	0	51	0	-12.13	0.31	<<>>	<<>>	Open	Water to Top,Pumped Water Out,Temp Probe Problems	Clear	60	10	SSW	30.26
		D	EW43	5/2/2013 10:15	12	13.1	2.7	57	0.1	0.1	-5.26	20	152	Open 1 turn	Water Above Valve,Pumped Water Out	Clear	60	10	SSW	30.29
		D	EW44	5/2/2013 10:29	16.8	12.7	0.1	55	0	-3.387	2.51	<<>>	<<>>	Closed	Water to Top,Pumped Water OutTemp Probe Problems	Clear	60	10	SSW	30.29
		D	EW45	5/2/2013 10:24	17	11.9	0	42	0.1	0.109	0.11	22	232	Open	Water Below Valve,	Clear	60	10	SSW	30.29
		D	EW46	5/29/2013 6:28	2.9	14.2	1.2	61	-0.1	0.056	1.39	15	26	Open 1 turn	Water Above Valve,	Mostly cloudy	61	Calm		29.91

Note: Paths to the monitoring points were cleared to provide access. Vaults with submerged valves were pumped out for inspection.

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Weather Conditions	Temp (°F)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		B	EW01	6/17/2013 10:25	0.5	4.7	12.9	116	0.4	0.024	0.41	9	3	Closed	Dry,	Scattered clouds	78	12	SW	29.83
		B	EW02	6/20/2013 9:55	9.7	13.2	0	70	-0.4	0.247	-4.66	32	192	Closed	Flooded,	Overcast	71	10	SSW	30.20
		B	EW03	6/4/2013 11:12	17.2	16.8	0	65	-4.2	0.971	-4.9	65	687	Open	Water Below Valve,	Partly sunny	68	9	NW	30.02
				6/20/2013 9:34	17.8	17.7	0.1	66	-4.7	1.141	-5.58	71	770	Open		Overcast	71	10	SSW	30.16
		B	EW04	6/4/2013 11:05	5.5	6.3	0.3	50	0.1	-0.082	-10.78	<<>>	<<>>	Closed	Water Below Valve,	Partly sunny	68	9	NW	30.03
		B	EW05	6/4/2013 10:59	0	2.9	16.9	50	0.2	-0.092	2.47	<<>>	<<>>	Closed	Dry,	Partly sunny	68	9	NW	30.03
V-6 (at junction with V-5 and V-4) and V-12 (at junction with HDR-B between EW-4 and EW-5)		A	EW06	6/4/2013 10:50	3.8	10.7	0	0	-1.3	0.01	-0.17	6	16	Fully open	Water to Top,	Partly sunny	68	9	NW	30.02
		A	EW07	6/4/2013 10:41	10.6	15.3	0	75	0.1	0.038	0.11	12	80	Open 4 turns	Water Above Valve,	Partly sunny	68	9	NW	30.02
		A	EW08	6/4/2013 10:04	4.9	18.3	0.1	79	-1.3	1.188	-12.26	70	209	Open 6 turns	Water Below Valve,	Partly sunny	68	9	NW	30.00
		A	EW09	6/17/2013 8:39	0.5	17.6	1	104	0.2	-0.002	0.26	<<>>	<<>>	Closed	Dry,Temp Probe Problems	Scattered clouds	78	12	SW	29.82
		A	EW10	6/17/2013 8:47	5.6	18	0.2	68	0.1	-0.478	0.21	<<>>	<<>>	Open 2 turns	Water to Top,	Scattered clouds	78	12	SW	29.82
		A	EW11	6/17/2013 10:00	7.1	11.6	3.7	62	0.4	0.027	0.38	10	45	Closed	Water Below Valve,	Scattered clouds	78	12	SW	29.82
V-5 (at junction with V-4 and V-6)		A	EW12	6/17/2013 12:02	4.5	16.3	0.2	57	0.3	0.056	4.33	15	41	Closed	Water Above Valve,	Scattered clouds	78	12	SW	29.86
		A	EW13	6/20/2013 10:31	11.1	21.0	0.9	131	0.1	-0.02	5.81	<<>>	<<>>	Closed	Water Below Valve. Closed the valve all the way, was open 6 turns.	Overcast	71	10	SSW	30.21
		A	EW14	6/20/2013 10:18	0.6	1.6	17.2	56	0.1	-0.025	-6.17	<<>>	<<>>	Closed	Poor Access/Vegetation/Snow,Water Below Valve,	Overcast	71	10	SSW	30.20
		A	EW15	6/20/2013 10:06	0	14.1	5.5	58	0.1	-0.024	-0.27	<<>>	<<>>	Closed	Water Below Valve,	Overcast	71	10	SSW	30.20
		A	EW16	6/17/2013 10:14	3.4	10.5	6.2	60	0.4	0.03	-1.08	11	23	Closed	Water Below Valve,	Scattered clouds	78	12	SW	29.83
V-4		C	EW17	6/17/2013 10:39	32.8	28	0.5	56	0.4	0.062	-4.92	16	328	Open 4 turns	Dry,	Scattered clouds	78	12	SW	29.84
		C	EW18	6/20/2013 9:13	22	13	0.4	61	0	-0.078	0	<<>>	<<>>	Open 8 turns	Water Below Valve	Overcast	71	10	SSW	30.15
	V-1	C	EW19	6/20/2013 9:19	18.5	19.8	0.3	65	-3.2	2.367	-4.59	103	1163	Open 8 turns	Water Below Valve,	Overcast	71	10	SSW	30.15
	V-1	C	EW20	6/20/2013 10:45	12.4	19	0	57	0.1	-0.035	-2.62	<<>>	<<>>	Open 4 turns	Water Above Valve,	Overcast	71	10	SSW	30.19
	V-1	C	EW21	6/17/2013 10:53	7.7	10.3	7.4	90	0.3	0.051	-1.4	14	66	Open 1 turn	Water Below Valve. Valve observed was broken.	Scattered clouds	78	12	SW	29.84
		C	EW22	6/17/2013 11:25	5	16.5	0.2	57	0.2	0.043	-3.21	13	40	Closed	Water Above Valve,Pumped Water Out	Scattered clouds	78	12	SW	29.84
		C	EW23	6/17/2013 11:05	5.8	16	0.1	89	0.3	-0.575	-12.9	<<>>	<<>>	Closed	Flooded,	Scattered clouds	78	12	SW	29.84
		C	EW24	6/17/2013 11:40	17.8	18.1	0.1	65	-0.6	0.772	-2.69	58	634	Fully open	Water Below Valve. On 6/20, the valve was throttled to 5 turns open.	Scattered clouds	78	12	SW	29.84
		C	EW25	6/17/2013 11:30	9.5	17.7	0.6	56	0.2	0.05	-4.52	14	83	Closed	Water Below Valve,	Scattered clouds	78	12	SW	29.85
		C	EW26	6/17/2013 12:08	12.4	15.1	0	45	0.2	0.046	0.56	14	107	Open 4 turns	Water Above Valve,	Scattered clouds	78	12	SW	29.85
		C	EW27	6/17/2013 11:54	2.5	11.3	0.1	53	0.3	0.054	0.52	15	22	Closed	Water Above Valve,	Scattered clouds	78	12	SW	29.85

Header Isolation Valves	Lateral Header Isolation Valves	Header	Device ID	Date/Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Gas Temp DegF	Static Press inches H2O	Diff Press inches H2O	System Press inches H2O	Flow Scfm	Power BTU	Valve Setting	Comments	Weather Conditions	Temp (^oF)	Wind-Speed (mph)	Wind-Direction	Baro. Press. inches Hg
		D	EW28	6/4/2013 11:19	22.5	12.5	0	65	0.1	-0.351	0.1	<<>>	<<>>	Fully open	Water Below Valve,	Partly sunny	68	9	NW	30.01
	V-7	D	EW29	6/4/2013 11:30	16.5	10	0	58	0.1	-0.084	0.14	<<>>	<<>>	Fully open	Water to Top,	Partly sunny	68	9	NW	30.00
		D	EW30	6/4/2013 10:37	11.6	21.7	0.3	70	0	-0.061	-2.58	<<>>	<<>>	Open 4 turns	Water Below Valve,	Partly sunny	68	9	NW	30.01
		D	EW31	6/4/2013 11:15	19	11.3	0	50	0	-0.069	0.15	<<>>	<<>>	Open 4 turns	Water Below Valve,	Partly sunny	68	9	NW	30.01
		D	EW32	6/4/2013 10:45	14.3	15.3	0	72	0	-0.076	-0.04	<<>>	<<>>	Open 3 turns	Water Below Valve,	Partly sunny	68	9	NW	30.01
	V-8	D	EW33	6/4/2013 11:25	19.6	12.4	0	95	0.1	-0.189	0.08	<<>>	<<>>	Fully open	Water to Top,	Partly sunny	68	9	NW	29.97
		D	EW34	6/4/2013 11:35	17.9	13	0	65	0.1	-0.765	0.14	<<>>	<<>>	Fully open	Water Below Valve,	Partly sunny	68	9	NW	29.97
		D	EW35	6/4/2013 12:36	21	14.1	0	60	0.1	-0.272	0.09	<<>>	<<>>	Fully open	Water Below Valve,	Partly sunny	68	9	NW	29.99
	V-9	D	EW36	6/4/2013 11:39	18.4	14	0	60	-1.3	1.055	0.12	69	782	Fully open	Water to Top,	Partly sunny	68	9	NW	29.97
		D	EW37	6/20/2013 11:04	15.4	14.4	0.1	60	0.1	-0.016	0.12	<<>>	<<>>	Fully open	Poor Access/Vegetation/Snow,Water to Top. Valve was observed broken.	Overcast	71	10	SSW	30.16
		D	EW38	6/4/2013 12:28	19.4	11.8	0	70	-0.7	0.766	0.04	59	701	Fully open	Water Above Valve,	Partly sunny	68	9	NW	29.98
	V-10	D	EW39	6/4/2013 11:43	20.7	13.3	0	70	-0.2	0.464	0.31	45	579	Fully open	Water to Top,	Partly sunny	68	9	NW	29.97
		D	EW40	6/4/2013 11:58	10.1	15.1	0	56	0.1	-0.355	0.2	<<>>	<<>>	Open 1-1/2 turns	Water to Top,	Partly sunny	68	9	NW	30.00
		D	EW41	6/4/2013 12:24	16.8	12.7	0.1	124	-3.5	2.6	-0.11	105	1083	Open 2 turns	Water to Top,	Partly sunny	68	9	NW	29.98
	V-11	D	EW42	6/4/2013 11:48	13.8	15.5	0	60	0.1	-0.001	0.11	<<>>	<<>>	Open	Water to Top,	Partly sunny	68	9	NW	29.98
		D	EW43	6/4/2013 11:54	9.2	10.4	5.5	63	0.1	-0.089	-4	<<>>	<<>>	Open 1 turn	Water Above Valve,	Partly sunny	68	9	NW	29.98
		D	EW44	6/4/2013 12:19	13.1	12	0	50	-0.2	-0.235	-18.88	<<>>	<<>>	Closed	Water to Top,	Partly sunny	68	9	NW	29.99
		D	EW45	6/4/2013 12:14	14.3	11.6	0	45	0.1	-0.078	0.22	<<>>	<<>>	Open	Water Below Valve,	Partly sunny	68	9	NW	29.97
		D	EW46	6/4/2013 12:52	2.9	13.3	0	58	-3.2	3.402	2.46	122	223	Open 1 turn	Water Above Valve,	Partly sunny	68	9	NW	30.01

Landfill Gas Management System

LFG-4 Quarterly O&M Inspections

Month: April 2013

FORM LFG-4
QUARTERLY O&M INSPECTION CHECKLIST
LANDFILL GAS MANAGEMENT SYSTEM
PENNSYLVANIA AVENUE LANDFILL

	SCHEDULE – INSPECTION AND MAINTENANCE TASKS	ACTION	
1	**Igniter Gap**		
	A. Measure Igniter Gap .90 inches		
	B. Igniter Regapped (set at 0.90")	☑ Completed	☑ No
	C. Spark is at Tip of Igniter	☑ Yes	☐ No
2	**Inspect Igniter Wiring** (Between Ignition Transformer and Pilot Ignition)		
	A. Frayed Wire	☐ Yes	☑ No
	B. Heat Damage	☐ Yes	☑ No
	C. Worn Insulation	☐ Yes	☑ No
3	**Pilot Test**		
	A. Pilot Lights in "Test" Mode	☑ Yes	☐ No
4	**Thermocouple Voltage**		
	A. Measure Voltage .002	☑ Yes	☐ No
	B. Converter Temperature 32.5 ° F Within 25 ° F of Ambient Temperature	☑ Yes	☐ No
5	**Flare Shutdown Valve (FV-301) Test**		
	A. "SHUTDOWN VALVE OPEN" Lamp Lights in "TEST" Mode	☑ Yes	☐ No
	B. "SHUTDOWN VALVE OPEN" Closes Within 2 Seconds from the "CLOSE" Position	☑ Yes	☐ No
6	**Flare Shutdown Valve (FV-301) Test**		
	A. Blower **301** Operates Properly in "TEST" Mode	☑ Yes	☐ No
	B. Blower **302** Operates Properly in "TEST" Mode	☑ Yes	☐ No
	C. Purge Blower Operates Properly in "TEST" Mode	☑ Yes	☐ No

Date: 4/8/13 **Technician:**

→ check valve being ordered, can't operate blower

FORM LFG-4
QUARTERLY O&M INSPECTION CHECKLIST
LANDFILL GAS MANAGEMENT SYSTEM
PENNSYLVANIA AVENUE LANDFILL

	SCHEDULE – INSPECTION AND MAINTENANCE TASKS	ACTION	
7	**Zero Gauges**		
	A. Pressure Gauges Zeroed	☑ Yes	☐ No
	B. Vacuum Gauges Zeroed	☑ Yes	☐ No
	C. Differential Pressure Gauges Zeroed	☑ Yes	☐ No
8	**Inspect Demister**		
	A. Blower **301** Demister Checked and Cleaned	☑ Completed	☐ Incomplete
	B. Blower **302** Demister Checked and Cleaned	☑ Completed	☐ Incomplete
9	**Test Louvers**		
	A. Louvers **Close** Completely on Manual Mode	☑ Completed	☐ Incomplete
	B. Louvers **Open** Completely on Manual Mode	☑ Completed	☐ Incomplete
10	**Pilot Fail Test**		
	A. System Fail Start without Natural Gas Supply	☑ Yes	☐ No
11	**Flame Fail Test**		
	A. System Shuts Down with Manual Inlet Valve Closed	☑ Yes	☐ No
12	**Low Temperature Shutdown Test**		
	A. System Shutdown With Temperature Control in Manual Mode and Manual Louver Setpoint at **0%**	☑ Yes	☐ No
13	**Loose Connections** (Annually)		
	A. Compare Configuration Sheets for Chart Recorders to Actual Settings	☑ Completed	☐ Incomplete
14	**System Settings** (Annually)		
	A. Compare Configuration Sheets for Chart Recorders to Actual Settings	☑ Completed	☐ Incomplete

Date: 4/8/13 **Technician:** [signature]

Appendix D –SWM, ANS, FCS Inspections

Landfill Inspections

STORMWATER MANAGEMENT SYSTEM
(SWM-1, SWM-2 & SWM-3)

FINAL COVER SYSTEM (FCS-1)

ANCILLARY SYSTEMS (ANS-1)

April 2013

FORM SWM-1

MONTHLY INSPECTION CHECKLIST

GEOCOMPOSITE DRAINS AND DRAINAGE SWALES

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	SWALE / DRAIN NUMBER								REMARKS
1	**Geocomposite Drains**	**I 1**	**I 2**	**P 1**	**P 2**	**P 3**	**P 4**			
	Standing Water	√	√	√	√	√	√			
	Sediments and Debris	√	√	√	√	√	√			
	Erosion/Washouts	√	√	√	√	√	√			
	Sinkholes	√	√	√	√	√	√			
	Cleanouts	√	√	√	√	√	√			
	Flow at Toe Drains	√	√	√	√	√	√			
	Flow at 6" Outlets	√	√	√	√	√	√			
	Damage at Drains/Outlets	√	√	√	√	√	√			
	Scheduled Flush of "P" Drain via Cleanouts	√	√	√	√	√	√	**Scheduled Annual Date:**		
2	**"A" Swales**	**A1**	**A2**	**A3**	**A4**	**A5X**	The geotextile on top of A-2 is			
	Overgrown Vegetation	√	√	√	√	√	exposed, loss of soil prohibits cover.			
	Standing Water	√	√	√	√	√				
	Sediments and Debris	√	√	√	√	√				
	Erosion/Washouts	√	√	√	√	√				
	Settlement and Sinkholes	√	√	√	√	√				
3	**"B" Swales**	**B1**	**B2X**	**B3X**	**B4X**	**B5**	**B6X**	**B7N**	**B8N**	
	Overgrown Vegetation	√	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	√	
	Sediments and Debris	√	√	√	√	√	√	√	√	
	Erosion/Washouts	√	√	√	√	√	√	√	√	
	Settlement and Sinkholes	√	√	√	√	√	√	√	√	
4	**"C" Swales**	**C1X**	**C2X**	**C3**	**C4X**	**C5**	**C6N**	**C7N**		
	Overgrown Vegetation	√	√	√	√	√	√	√		
	Standing Water	√	√	√	√	√	√	√		
	Sediments and Debris	√	√	√	√	√	√	√		
	Erosion/Washouts	√	√	√	√	√	√	√		
	Settlement and Sinkholes	√	√	√	√	√	√	√		
	"D" Swales	**D1X**	**D2**	**D3X**	**D4**					
	Overgrown Vegetation	√	√	√	√					
	Standing Water	√	√	√	√					
	Sediments and Debris	√	√	√	√					
	Erosion/Washouts	√	√	√	√					
	Settlement and Sinkholes	√	√	√	√					

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	STRUCTURE NUMBER					REMARKS
"A" Outlets and Culverts	**A**	**A1**				Swales, outlets, culvers and downchute drains were cleared.
Damage (Spalling, Cracking, etc.)	√	√				
Erosion Around Structure	√	√				
Settlement Along Structure	√	√				
Standing Water	√	√				
Sediment/Debris in Pipe	√	√				
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√				
I/O Sediments and Debris	√	√				
I/O Vegetative Growth	√	√				
"B" Outlets and Culverts	**B**	**B1**	**B2**			
Damage (Spalling, Cracking, etc.)	√	√	√			
Erosion Around Structure	√	√	√			
Settlement Along Structure	√	√	√			
Standing Water	√	√	√			
Sediment/Debris in Pipe	√	√	√			
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√			
I/O Sediments and Debris	√	√	√			
I/O Vegetative Growth	√	√	√			
"C" Outlets and Culverts	**C**	**C1**	**C2**	**C3**	**C4**	
Damage (Spalling, Cracking, etc.)	√	√	√	√	√	
Erosion Around Structure	√	√	√	√	√	
Settlement Along Structure	√	√	√	√	√	
Standing Water	√	√	√	√	√	
Sediment/Debris in Pipe	√	√	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	√	√	
I/O Sediments and Debris	√	√	√	√	√	
I/O Vegetative Growth	√	√	√	√	√	

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013	**Inspected By: Ed E. McLean**

INSPECTION TASK	**STRUCTURE NUMBER**			**REMARKS**
"D" Outlets and Culverts	**D**	**D1**	**D2**	
Damage (Spalling, Cracking, etc.)	√	√	√	
Erosion Around Structure	√	√	√	
Settlement Along Structure	√	√	√	
Standing Water	√	√	√	
Sediment/Debris in Pipe	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	
I/O Sediments and Debris	√	√	√	
I/O Vegetative Growth	√	√	√	
REVETMENT AREA				
Armor Stone/Rip-Rap Displacement	√			
Sediments/Debris Accumulation	*NS*	Debris is being removed as time and weather permits.		
Vegetative Growth	√			
Standing Water	√			
Washouts & Exposed/Damaged Geotextile	√			
Settlement /Sinkholes	√			

Comments:

FORM SWM-3

MONTHLY INSPECTION CHECKLIST

DOWNCHUTES, MANHOLES, PIPE TRENCHES AND ENERGY DISSIPATORS

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	STRUCTURE NUMBER							REMARKS
1	**Downchutes**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	All the downchute
	Pipe/Fitting Damage (Cracking, etc)	√	√	√	√	√	√	√	manholes were cleared.
	Debris/Sediment Blockage in Pipe	√	√	√	√	√	√	√	
	Erosion Around Pipe	√	√	√	√	√	√	√	
	Pipe Settlement	√	√	√	√	√	√	√	
	Damaged Pipe Trench Connections	√	√	√	√	√	√	√	
2	**Downchutes 1, 2, 3 & 4 Manholes**	**D1A**	**D1B**	**D1C**	**D2**	**D3**	**D4**		
	Manhole Damage (Cracking, etc)	*NS*	√	√	√	√	√	D1A-monitored-no change.	
	Manhole Trashrack Debris	√	√	√	√	√	√		
	Sediment Accumulation in Manhole	√	√	√	√	√	√		
	Damaged Pipe Connections	√	√	√	√	√	√		
	Erosion Around Manhole	√	√	√	√	√	√		
	Manhole Settlement	√	√	√	√	√	√		
	Access Ladder	√	√	√	√	√	√		
3	**Downchutes 5, 6 & 7 Manholes**	**D5A**	**D5B**	**D6A**	**D6B**	**D7**			
	Manhole Damage (Cracking, etc)	√	√	√	√	√			
	Manhole Trashrack Debris	√	√	√	√	√			
	Sediment Accumulation in Manhole	√	√	√	√	√			
	Damaged Pipe Connections	√	√	√	√	√			
	Erosion Around Manhole	√	√	√	√	√			
	Manhole Settlement	√	√	√	√	√			
	Access Ladder	√	√	√	√	√			
4	**Downchute Pipe Trenches**	**B7P**	**B8P**	**C6P**	**C7P**				
	Damaged Pipe Trench	√	√	√	√				
	Standing Water	√	√	√	√				
	Sediment Accumulation and Debris	√	√	√	√				
	Pipe Trench Settlement	√	√	√	√				
	Erosion Around Pipe Trench	√	√	√	√				
	Damaged Downchute Connections	√	√	√	√				
5	**Downchute Energy Dissipators**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	
	Damaged Gabion Baskets/Reno Mattresses	√	√	√	√	√	√	√	
	Rip-Rap Displacement	√	√	√	√	√	√	√	
	Vegetative Growth	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	
	Sediment Accumulation and Debris	√	√	√	√	√	√	√	
	Erosion Around Structure	√	√	√	√	√	√	√	
	Structure Settlement	√	√	√	√	√	√	√	

FORM DP-1

STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3

Month: APRIL 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
4/24/13	Revetment area	Hurricane Sandy washed in a substantial amount of debris all along the revetment and beach area.	Clean up is being performed as time permits.
4/24/13	Swale A-2	A section of the berm on Swale A-2 eroded and the protective geotextile has been exposed.	The repair to the exposed geotextile on Swale A-2 berm remains under investigation.

Date: 4/24/2013

Inspected By: : Ed E. McLean

Signature 

FORM FCS-1

MONTHLY INSPECTION CHECKLIST

FINAL COVER SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	INSPECTION ZONE NUMBER						REMARKS
	1	**2**	**3**	**4**	**5**	**6**	
Surface Cracks	√	√	√	√	√	√	Zones 1, 4, 12 and 17 were filled during the concrete drainage channel repair and will be seeded this spring. Some areas will have to be filled again prior to seeding as some erosion has taken place.
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	√	√	√	√	
Slope Stability	√	√	√	√	√	√	Zone 9 will be addressed with Road D repair.
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	√	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	7	**8**	**9**	**10**	**11**	**12**	
Surface Cracks	√	√	√	√	√	√	
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	*NS*	√	√	√	
Slope Stability	√	√	√	√	√	√	
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	*NS*	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	13	**14**	**15**	**16**	**17**		
Surface Cracks	√	√	√	√	√		
Vegetative Growth	√	√	√	√	√		
Vector Penetration	√	√	√	√	√		
Settlement	√	√	√	√	√		
Erosion	√	√	√	√	√		
Slope Stability	√	√	√	√	√		
Seepage	√	√	√	√	√		
Vandalism (Debris)	√	√	√	√	√		
Vegetation Islands	√	√	√	√	√		

Comments:

FORM DP-1

FINAL COVER SYSTEM: FCS-1

Month: APRIL 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
4/24/13	Zones 1, 4, 12 and 17	Erosion and debris in the wake of Hurricane Sandy	Repaired in February and will be seeded this spring. Some areas will have to be repaired again prior to seeding.
4/24/13	Zone 9	Erosion and debris in the wake of Hurricane Sandy	Repairs to be performed with repair work to Road D.

Date: 4/24/2013 **Inspected By: :** Ed E. McLean

Signature Ed E McLean

FORM ANS-1

MONTHLY INSPECTION CHECKLIST

ANCILLARY SYSTEMS

PENNSYLVANIA AVENUE LANDFILL

Date: 24 April 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK		REMARKS
1	**ROAD "A"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
2	**ROAD "B"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
3	**ROAD "C"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
4	**ROAD "D"**		Hurricane Sandy surge damaged the road and
	Rutting	*NS*	embankment. Condition deteriorating with every
	Depression/Settlement	*NS*	rain event.
	Washout	*NS*	
	Roadway Stone Condition	*NS*	
5	**ROAD "E"**		Note: The NYCDEP pier located on the site was
	Rutting	√	damaged by Hurricane Sandy.
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
6	**NATURE TRAIL - EAST**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
7	**NATURE TRAIL - WEST**		Gate on Hendrix St providing access to DOT
	Rutting	√	easement and 26 Ward WWTP was damaged,
	Depression/Settlement	√	misaligned and did not close properly. Road edge
	Washout	√	and beach embankment eroded due to previous
	Roadway Stone Condition	√	severe weather. Interim repairs to the gate are no
8	**PERIMETER, FENCE, GATES & LOCKS**		longer adequate. The proposed repairs due to
	Vandalism	√	previous damage remains the same. The
	Debris	√	embankment was repaired in February 2013.
	Fence Damage	√	One of the project signs was lost during the
	Gate Alignment and Swing Action	*NS*	hurricane.
	Lock Lubrication and Function	√	

FORM DP-1

ANCILLARY SYSTEMS: ANS-1

Month: APRIL 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
4/24/13	Gate to 26th Ward WWTP and Hendrix Creek embankment	The road and embankment was eroded by previous severe weather. While impacted by Hurricane Sandy, the proposed repair due to previous damage remains the same. The interim fix to the gate post is no longer adequate.	The road embankment was repaired. Work on the road and gate remain to be scheduled.
4/24/13	Road D	Road and embankment severe washout and erosion by Hurricane Sandy surge.	To provide access, an interim solution was applied. The material deposited by the hurricane around the pump stations was removed and spread on the road to partially rebuild it and provide access. Condition is deteriorating, temporary repairs are performed to maintain access.
4/24/13	Project sign	One of the project signs was lost during the hurricane.	The replacement signs have been received. Working on WOA for the repair of the damaged support structure.
4/24/13	Embankment North of the pier power transformer cage across from the Flare Station	Embankment erosion caused by Hurricane Sandy	Repair is being scheduled.

Date: 4/24/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

Landfill Inspections

STORMWATER MANAGEMENT SYSTEM
(SWM-1, SWM-2 & SWM-3)

FINAL COVER SYSTEM (FCS-1)

ANCILLARY SYSTEMS (ANS-1)

May 2013

FORM SWM-1

MONTHLY INSPECTION CHECKLIST

GEOCOMPOSITE DRAINS AND DRAINAGE SWALES

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	SWALE / DRAIN NUMBER								REMARKS
1	**Geocomposite Drains**	**I 1**	**I 2**	**P 1**	**P 2**	**P 3**	**P 4**			
	Standing Water	√	√	√	√	√	√			
	Sediments and Debris	√	√	√	√	√	√			
	Erosion/Washouts	√	√	√	√	√	√			
	Sinkholes	√	√	√	√	√	√			
	Cleanouts	√	√	√	√	√	√			
	Flow at Toe Drains	√	√	√	√	√	√			
	Flow at 6" Outlets	√	√	√	√	√	√			
	Damage at Drains/Outlets	√	√	√	√	√	√			
	Scheduled Flush of "P" Drain via Cleanouts	√	√	√	√	√	√	**Scheduled Annual Date:**		
2	**"A" Swales**	**A1**	**A2**	**A3**	**A4**	**A5X**	The geotextile on top of A-2 is			
	Overgrown Vegetation	√	√	√	√	√	exposed, loss of soil prohibits cover.			
	Standing Water	√	√	√	√	√				
	Sediments and Debris	√	√	√	√	√				
	Erosion/Washouts	√	√	√	√	√				
	Settlement and Sinkholes	√	√	√	√	√				
3	**"B" Swales**	**B1**	**B2X**	**B3X**	**B4X**	**B5**	**B6X**	**B7N**	**B8N**	
	Overgrown Vegetation	√	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	√	
	Sediments and Debris	√	√	√	√	√	√	√	√	
	Erosion/Washouts	√	√	√	√	√	√	√	√	
	Settlement and Sinkholes	√	√	√	√	√	√	√	√	
4	**"C" Swales**	**C1X**	**C2X**	**C3**	**C4X**	**C5**	**C6N**	**C7N**		
	Overgrown Vegetation	√	√	√	√	√	√	√		
	Standing Water	√	√	√	√	√	√	√		
	Sediments and Debris	√	√	√	√	√	√	√		
	Erosion/Washouts	√	√	√	√	√	√	√		
	Settlement and Sinkholes	√	√	√	√	√	√	√		
	"D" Swales	**D1X**	**D2**	**D3X**	**D4**					
	Overgrown Vegetation	√	√	√	√					
	Standing Water	√	√	√	√					
	Sediments and Debris	√	√	√	√					
	Erosion/Washouts	√	√	√	√					
	Settlement and Sinkholes	√	√	√	√					

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	STRUCTURE NUMBER					REMARKS
"A" Outlets and Culverts	**A**	**A1**				Swales, outlets, culvers and downchute drains were cleared.
Damage (Spalling, Cracking, etc.)	√	√				
Erosion Around Structure	√	√				
Settlement Along Structure	√	√				
Standing Water	√	√				
Sediment/Debris in Pipe	√	√				
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√				
I/O Sediments and Debris	√	√				
I/O Vegetative Growth	√	√				
"B" Outlets and Culverts	**B**	**B1**	**B2**			
Damage (Spalling, Cracking, etc.)	√	√	√			
Erosion Around Structure	√	√	√			
Settlement Along Structure	√	√	√			
Standing Water	√	√	√			
Sediment/Debris in Pipe	√	√	√			
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√			
I/O Sediments and Debris	√	√	√			
I/O Vegetative Growth	√	√	√			
"C" Outlets and Culverts	**C**	**C1**	**C2**	**C3**	**C4**	
Damage (Spalling, Cracking, etc.)	√	√	√	√	√	
Erosion Around Structure	√	√	√	√	√	
Settlement Along Structure	√	√	√	√	√	
Standing Water	√	√	√	√	√	
Sediment/Debris in Pipe	√	√	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	√	√	
I/O Sediments and Debris	√	√	√	√	√	
I/O Vegetative Growth	√	√	√	√	√	

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013	**Inspected By: Ed E. McLean**

INSPECTION TASK	**STRUCTURE NUMBER**			**REMARKS**
"D" Outlets and Culverts	**D**	**D1**	**D2**	
Damage (Spalling, Cracking, etc.)	√	√	√	
Erosion Around Structure	√	√	√	
Settlement Along Structure	√	√	√	
Standing Water	√	√	√	
Sediment/Debris in Pipe	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	
I/O Sediments and Debris	√	√	√	
I/O Vegetative Growth	√	√	√	
REVETMENT AREA				
Armor Stone/Rip-Rap Displacement	√			
Sediments/Debris Accumulation	*NS*	Debris is being removed as time and weather permits.		
Vegetative Growth	√			
Standing Water	√			
Washouts & Exposed/Damaged Geotextile	√			
Settlement /Sinkholes	√			

Comments:

FORM SWM-3

MONTHLY INSPECTION CHECKLIST

DOWNCHUTES, MANHOLES, PIPE TRENCHES AND ENERGY DISSIPATORS

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	STRUCTURE NUMBER							REMARKS
1	**Downchutes**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	All the downchute
	Pipe/Fitting Damage (Cracking, etc)	√	√	√	√	√	√	√	manholes were cleared.
	Debris/Sediment Blockage in Pipe	√	√	√	√	√	√	√	
	Erosion Around Pipe	√	√	√	√	√	√	√	
	Pipe Settlement	√	√	√	√	√	√	√	
	Damaged Pipe Trench Connections	√	√	√	√	√	√	√	
2	**Downchutes 1, 2, 3 & 4 Manholes**	**D1A**	**D1B**	**D1C**	**D2**	**D3**	**D4**		
	Manhole Damage (Cracking, etc)	*NS*	√	√	√	√	√		D1A-monitored-no change.
	Manhole Trashrack Debris	√	√	√	√	√	√		
	Sediment Accumulation in Manhole	√	√	√	√	√	√		
	Damaged Pipe Connections	√	√	√	√	√	√		
	Erosion Around Manhole	√	√	√	√	√	√		
	Manhole Settlement	√	√	√	√	√	√		
	Access Ladder	√	√	√	√	√	√		
3	**Downchutes 5, 6 & 7 Manholes**	**D5A**	**D5B**	**D6A**	**D6B**	**D7**			
	Manhole Damage (Cracking, etc)	√	√	√	√	√			
	Manhole Trashrack Debris	√	√	√	√	√			
	Sediment Accumulation in Manhole	√	√	√	√	√			
	Damaged Pipe Connections	√	√	√	√	√			
	Erosion Around Manhole	√	√	√	√	√			
	Manhole Settlement	√	√	√	√	√			
	Access Ladder	√	√	√	√	√			
4	**Downchute Pipe Trenches**	**B7P**	**B8P**	**C6P**	**C7P**				
	Damaged Pipe Trench	√	√	√	√				
	Standing Water	√	√	√	√				
	Sediment Accumulation and Debris	√	√	√	√				
	Pipe Trench Settlement	√	√	√	√				
	Erosion Around Pipe Trench	√	√	√	√				
	Damaged Downchute Connections	√	√	√	√				
5	**Downchute Energy Dissipators**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	
	Damaged Gabion Baskets/Reno Mattresses	√	√	√	√	√	√	√	
	Rip-Rap Displacement	√	√	√	√	√	√	√	
	Vegetative Growth	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	
	Sediment Accumulation and Debris	√	√	√	√	√	√	√	
	Erosion Around Structure	√	√	√	√	√	√	√	
	Structure Settlement	√	√	√	√	√	√	√	

FORM DP-1

STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3

Month: MAY 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
5/29/13	Revetment area	Hurricane Sandy washed in a substantial amount of debris all along the revetment and beach area.	Clean up is being performed as time permits.
5/29/13	Swale A-2	A section of the berm on Swale A-2 eroded and the protective geotextile has been exposed.	The repair to the exposed geotextile on Swale A-2 berm remains under investigation.

Date: 5/29/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

FORM FCS-1

MONTHLY INSPECTION CHECKLIST

FINAL COVER SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	INSPECTION ZONE NUMBER						REMARKS
	1	**2**	**3**	**4**	**5**	**6**	Zones 1, 4, 12 and 17 were filled during the concrete drainage channel repair and will be seeded this spring. Some areas will have to be filled again prior to seeding as erosion has increased due to heavy rains.
Surface Cracks	√	√	√	√	√	√	
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	√	√	√	√	
Slope Stability	√	√	√	√	√	√	Zone 9 will be addressed with Road D repair.
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	√	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	7	**8**	**9**	**10**	**11**	**12**	
Surface Cracks	√	√	√	√	√	√	
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	*NS*	√	√	√	
Slope Stability	√	√	√	√	√	√	
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	*NS*	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	13	**14**	**15**	**16**	**17**		
Surface Cracks	√	√	√	√	√		
Vegetative Growth	√	√	√	√	√		
Vector Penetration	√	√	√	√	√		
Settlement	√	√	√	√	√		
Erosion	√	√	√	√	√		
Slope Stability	√	√	√	√	√		
Seepage	√	√	√	√	√		
Vandalism (Debris)	√	√	√	√	√		
Vegetation Islands	√	√	√	√	√		

Comments:

FORM DP-1

FINAL COVER SYSTEM: FCS-1

Month: MAY 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
5/29/13	Zones 1, 4, 12 and 17	Erosion and debris in the wake of Hurricane Sandy	Repaired in February and will be seeded this spring. Some areas will have to be repaired again prior to seeding due to increased erosion from heavy rains.
5/29/13	Zone 9	Erosion and debris in the wake of Hurricane Sandy	Repairs to be performed with repair work to Road D.

Date: 5/29/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

FORM ANS-1

MONTHLY INSPECTION CHECKLIST

ANCILLARY SYSTEMS

PENNSYLVANIA AVENUE LANDFILL

Date: 29 May 2013			Inspected By: Ed E. McLean
	INSPECTION TASK		**REMARKS**
1	**ROAD "A"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
2	**ROAD "B"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
3	**ROAD "C"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
4	**ROAD "D"**		Hurricane Sandy surge damaged the road and
	Rutting	*NS*	embankment. Condition deteriorating with every
	Depression/Settlement	*NS*	rain event.
	Washout	*NS*	
	Roadway Stone Condition	*NS*	
5	**ROAD "E"**		Note: The NYCDEP pier located on the site was
	Rutting	√	damaged by Hurricane Sandy.
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
6	**NATURE TRAIL - EAST**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
7	**NATURE TRAIL - WEST**		Gate on Hendrix St providing access to DOT
	Rutting	√	easement and 26 Ward WWTP was damaged,
	Depression/Settlement	√	misaligned and did not close properly. Road edge
	Washout	√	and beach embankment eroded due to previous
	Roadway Stone Condition	√	severe weather. Interim repairs to the gate are no
8	**PERIMETER, FENCE, GATES & LOCKS**		longer adequate. The proposed repairs due to
	Vandalism	√	previous damage remains the same. The
	Debris	√	embankment was repaired in February 2013.
	Fence Damage	√	One of the project signs was lost during the
	Gate Alignment and Swing Action	*NS*	hurricane.
	Lock Lubrication and Function	√	

FORM DP-1

ANCILLARY SYSTEMS: ANS-1

Month: MAY 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
5/29/13	Gate to 26th Ward WWTP and Hendrix Creek embankment	The road and embankment was eroded by previous severe weather. While impacted by Hurricane Sandy, the proposed repair due to previous damage remains the same. The interim fix to the gate post is no longer adequate.	The road embankment was repaired. The WOA for the road and gate has been submitted and work is scheduled for next month.
5/29/13	Road D	Road and embankment severe washout and erosion by Hurricane Sandy surge.	To provide access, an interim solution was applied. The material deposited by the hurricane around the pump stations was removed and spread on the road to partially rebuild it and provide access. Condition is deteriorating, temporary repairs are performed to maintain access. The WOA has been submitted.
5/29/13	Project sign	One of the project signs was lost during the hurricane.	The replacement signs have been received. Working on WOA for the repair of the damaged support structure.
5/29/13	Embankment North of the pier power transformer cage across from the Flare Station	Embankment erosion caused by Hurricane Sandy	Repair is being scheduled.

Date: 5/29/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

Landfill Perimeter and Security Inspection

Month: MAY 2013

Date	Site Inspected	Inspector	Reason for Inspection	Observations	Reported to	Repair Date	Repair details	Repair Tech
5-3-13	PENN PERIMETER	EEM, JM	WEEKLY	HOLE IN FENCE ON PENN PERIMETER OFF ROAD BY FENCE TO 26TH WARD		5-3-13	USED CRIMPS TO REPAIR HOLE	EEM, JM
5-6-13	FOUNT PERIMETER	EEM, JM	WEEKLY	FENCE PULLED DOWN OFF SIDE OF BIKE PATH		5-6-13	USED CRIMPS & 15 FT OF FENCE FOR REPAIR	EEM, JM EM
5-23-13	FOUNT PERIMETER	EEM, JM	DEP	TOLD BY WALTER OF DEP TO REPAIR FENCE ON FOUNT		5-23-13	USED CRIMPS TO REPAIR FENCE	EEM, JM
5-24-13	PENN & FOUNT	EEM, JM	PERIMETER INSPECTION	FENCE REPAIRS INTACT 2 FISHERMEN STILL FOUND ON FOUNT LANDFILL	FJC	5-24-13	NO REPAIRS NEEDED	EEM, JM
5-29-13	FOUNT	EEM, JM	WEEKLY	FENCE NOT DOWN, BUT PUSHED IN & UNLINKED ENOUGH TO ALLOW ENTRY		5-31-13	USED CRIMPS TO REPAIR FENCE	EEM, JM

Landfill Inspections

STORMWATER MANAGEMENT SYSTEM
(SWM-1, SWM-2 & SWM-3)

FINAL COVER SYSTEM (FCS-1)

ANCILLARY SYSTEMS (ANS-1)

June 2013

FORM SWM-1

MONTHLY INSPECTION CHECKLIST

GEOCOMPOSITE DRAINS AND DRAINAGE SWALES

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	SWALE / DRAIN NUMBER								REMARKS
1	**Geocomposite Drains**	**I 1**	**I 2**	**P 1**	**P 2**	**P 3**	**P 4**			
	Standing Water	√	√	√	√	√	√			
	Sediments and Debris	√	√	√	√	√	√			
	Erosion/Washouts	√	√	√	√	√	√			
	Sinkholes	√	√	√	√	√	√			
	Cleanouts	√	√	√	√	√	√			
	Flow at Toe Drains	√	√	√	√	√	√			
	Flow at 6" Outlets	√	√	√	√	√	√			
	Damage at Drains/Outlets	√	√	√	√	√	√			
	Scheduled Flush of "P" Drain via Cleanouts	√	√	√	√	√	√	**Scheduled Annual Date:**		
2	**"A" Swales**	**A1**	**A2**	**A3**	**A4**	**A5X**	The geotextile on top of A-2 is			
	Overgrown Vegetation	√	√	√	√	√	exposed, loss of soil prohibits cover.			
	Standing Water	√	√	√	√	√				
	Sediments and Debris	√	√	√	√	√				
	Erosion/Washouts	√	√	√	√	√				
	Settlement and Sinkholes	√	√	√	√	√				
3	**"B" Swales**	**B1**	**B2X**	**B3X**	**B4X**	**B5**	**B6X**	**B7N**	**B8N**	
	Overgrown Vegetation	√	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	√	
	Sediments and Debris	√	√	√	√	√	√	√	√	
	Erosion/Washouts	√	√	√	√	√	√	√	√	
	Settlement and Sinkholes	√	√	√	√	√	√	√	√	
4	**"C" Swales**	**C1X**	**C2X**	**C3**	**C4X**	**C5**	**C6N**	**C7N**		
	Overgrown Vegetation	√	√	√	√	√	√	√		
	Standing Water	√	√	√	√	√	√	√		
	Sediments and Debris	√	√	√	√	√	√	√		
	Erosion/Washouts	√	√	√	√	√	√	√		
	Settlement and Sinkholes	√	√	√	√	√	√	√		
	"D" Swales	**D1X**	**D2**	**D3X**	**D4**					
	Overgrown Vegetation	√	√	√	√					
	Standing Water	√	√	√	√					
	Sediments and Debris	√	√	√	√					
	Erosion/Washouts	√	√	√	√					
	Settlement and Sinkholes	√	√	√	√					

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	STRUCTURE NUMBER					REMARKS
"A" Outlets and Culverts	**A**	**A1**				Swales, outlets, culvers and downchute drains were cleared and landscaped.
Damage (Spalling, Cracking, etc.)	√	√				
Erosion Around Structure	√	√				
Settlement Along Structure	√	√				
Standing Water	√	√				
Sediment/Debris in Pipe	√	√				
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√				
I/O Sediments and Debris	√	√				
I/O Vegetative Growth	√	√				
"B" Outlets and Culverts	**B**	**B1**	**B2**			
Damage (Spalling, Cracking, etc.)	√	√	√			
Erosion Around Structure	√	√	√			
Settlement Along Structure	√	√	√			
Standing Water	√	√	√			
Sediment/Debris in Pipe	√	√	√			
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√			
I/O Sediments and Debris	√	√	√			
I/O Vegetative Growth	√	√	√			
"C" Outlets and Culverts	**C**	**C1**	**C2**	**C3**	**C4**	
Damage (Spalling, Cracking, etc.)	√	√	√	√	√	
Erosion Around Structure	√	√	√	√	√	
Settlement Along Structure	√	√	√	√	√	
Standing Water	√	√	√	√	√	
Sediment/Debris in Pipe	√	√	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	√	√	
I/O Sediments and Debris	√	√	√	√	√	
I/O Vegetative Growth	√	√	√	√	√	

FORM SWM-2

MONTHLY INSPECTION CHECKLIST

OUTLETS, CULVERTS AND REVETMENT AREA

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013	**Inspected By: Ed E. McLean**

INSPECTION TASK	**STRUCTURE NUMBER**			**REMARKS**
"D" Outlets and Culverts	**D**	**D1**	**D2**	
Damage (Spalling, Cracking, etc.)	√	√	√	
Erosion Around Structure	√	√	√	
Settlement Along Structure	√	√	√	
Standing Water	√	√	√	
Sediment/Debris in Pipe	√	√	√	
Rip-Rap Inlet Outlet Protection (I/O) Displacement and Settlement	√	√	√	
I/O Sediments and Debris	√	√	√	
I/O Vegetative Growth	√	√	√	
REVETMENT AREA				
Armor Stone/Rip-Rap Displacement	√			
Sediments/Debris Accumulation	*NS*	Debris is being removed as time and weather permits.		
Vegetative Growth	√			
Standing Water	√			
Washouts & Exposed/Damaged Geotextile	√			
Settlement /Sinkholes	√			

Comments:

FORM SWM-3

MONTHLY INSPECTION CHECKLIST

DOWNCHUTES, MANHOLES, PIPE TRENCHES AND ENERGY DISSIPATORS

STORMWATER MANAGEMENT SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013 | **Inspected By: Ed E. McLean**

	INSPECTION TASK	STRUCTURE NUMBER							REMARKS
1	**Downchutes**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	All the downchute
	Pipe/Fitting Damage (Cracking, etc)	√	√	√	√	√	√	√	manholes were cleared.
	Debris/Sediment Blockage in Pipe	√	√	√	√	√	√	√	
	Erosion Around Pipe	√	√	√	√	√	√	√	
	Pipe Settlement	√	√	√	√	√	√	√	
	Damaged Pipe Trench Connections	√	√	√	√	√	√	√	
2	**Downchutes 1, 2, 3 & 4 Manholes**	**D1A**	**D1B**	**D1C**	**D2**	**D3**	**D4**		
	Manhole Damage (Cracking, etc)	*NS*	√	√	√	√	√		D1A-monitored-no change.
	Manhole Trashrack Debris	√	√	√	√	√	√		
	Sediment Accumulation in Manhole	√	√	√	√	√	√		
	Damaged Pipe Connections	√	√	√	√	√	√		
	Erosion Around Manhole	√	√	√	√	√	√		
	Manhole Settlement	√	√	√	√	√	√		
	Access Ladder	√	√	√	√	√	√		
3	**Downchutes 5, 6 & 7 Manholes**	**D5A**	**D5B**	**D6A**	**D6B**	**D7**			
	Manhole Damage (Cracking, etc)	√	√	√	√	√			
	Manhole Trashrack Debris	√	√	√	√	√			
	Sediment Accumulation in Manhole	√	√	√	√	√			
	Damaged Pipe Connections	√	√	√	√	√			
	Erosion Around Manhole	√	√	√	√	√			
	Manhole Settlement	√	√	√	√	√			
	Access Ladder	√	√	√	√	√			
4	**Downchute Pipe Trenches**	**B7P**	**B8P**	**C6P**	**C7P**				
	Damaged Pipe Trench	√	√	√	√				
	Standing Water	√	√	√	√				
	Sediment Accumulation and Debris	√	√	√	√				
	Pipe Trench Settlement	√	√	√	√				
	Erosion Around Pipe Trench	√	√	√	√				
	Damaged Downchute Connections	√	√	√	√				
5	**Downchute Energy Dissipators**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	
	Damaged Gabion Baskets/Reno Mattresses	√	√	√	√	√	√	√	
	Rip-Rap Displacement	√	√	√	√	√	√	√	
	Vegetative Growth	√	√	√	√	√	√	√	
	Standing Water	√	√	√	√	√	√	√	
	Sediment Accumulation and Debris	√	√	√	√	√	√	√	
	Erosion Around Structure	√	√	√	√	√	√	√	
	Structure Settlement	√	√	√	√	√	√	√	

FORM DP-1

STORMWATER SYSTEM: SWM-1, SWM-2 AND SWM-3

Month: JUNE 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
6/28/13	Revetment area	Hurricane Sandy washed in a substantial amount of debris all along the revetment and beach area.	Clean up is being performed as time permits.
6/28/13	Swale A-2	A section of the berm on Swale A-2 eroded and the protective geotextile has been exposed.	The repair to the exposed geotextile on Swale A-2 berm remains under investigation.

Date: 6/28/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

FORM FCS-1

MONTHLY INSPECTION CHECKLIST

FINAL COVER SYSTEM

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013 | **Inspected By: Ed E. McLean**

INSPECTION TASK	INSPECTION ZONE NUMBER						REMARKS
	1	**2**	**3**	**4**	**5**	**6**	
Surface Cracks	√	√	√	√	√	√	Zones 1, 4, 12 and 17 were filled during the concrete drainage channel repair and will be seeded this spring. Some areas will have to be filled again prior to seeding as erosion has increased due to heavy rains.
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	√	√	√	√	
Slope Stability	√	√	√	√	√	√	Zone 9 will be addressed with Road D repair.
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	√	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	7	**8**	**9**	**10**	**11**	**12**	
Surface Cracks	√	√	√	√	√	√	
Vegetative Growth	√	√	√	√	√	√	
Vector Penetration	√	√	√	√	√	√	
Settlement	√	√	√	√	√	√	
Erosion	√	√	*NS*	√	√	√	
Slope Stability	√	√	√	√	√	√	
Seepage	√	√	√	√	√	√	
Vandalism (Debris)	√	√	*NS*	√	√	√	
Vegetation Islands	√	√	√	√	√	√	
	13	**14**	**15**	**16**	**17**		
Surface Cracks	√	√	√	√	√		
Vegetative Growth	√	√	√	√	√		
Vector Penetration	√	√	√	√	√		
Settlement	√	√	√	√	√		
Erosion	√	√	√	√	√		
Slope Stability	√	√	√	√	√		
Seepage	√	√	√	√	√		
Vandalism (Debris)	√	√	√	√	√		
Vegetation Islands	√	√	√	√	√		

Comments:

FORM DP-1

FINAL COVER SYSTEM: FCS-1

Month: JUNE 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
6/28/13	Zones 1, 4, 12 and 17	Erosion and debris in the wake of Hurricane Sandy	Repaired in February and will be seeded this spring. Some areas will have to be repaired again prior to seeding due to increased erosion from heavy rains.
6/28/13	Zone 9	Erosion and debris in the wake of Hurricane Sandy	Repairs to be performed with repair work to Road D.

Date: 6/28/2013 **Inspected By: :** Ed E. McLean

Signature Ed E. McLean

FORM ANS-1

MONTHLY INSPECTION CHECKLIST

ANCILLARY SYSTEMS

PENNSYLVANIA AVENUE LANDFILL

Date: 28 June 2013			Inspected By: Ed E. McLean
	INSPECTION TASK		**REMARKS**
1	**ROAD "A"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
2	**ROAD "B"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
3	**ROAD "C"**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
4	**ROAD "D"**		Hurricane Sandy surge damaged the road and
	Rutting	*NS*	embankment. Condition continues to deteriorate
	Depression/Settlement	*NS*	with every rain event.
	Washout	*NS*	
	Roadway Stone Condition	*NS*	
5	**ROAD "E"**		Note: The NYCDEP pier located on the site was
	Rutting	√	damaged by Hurricane Sandy.
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
6	**NATURE TRAIL - EAST**		
	Rutting	√	
	Depression/Settlement	√	
	Washout	√	
	Roadway Stone Condition	√	
7	**NATURE TRAIL - WEST**		Gate on Hendrix St providing access to DOT
	Rutting	√	easement and 26 Ward WWTP was damaged,
	Depression/Settlement	√	misaligned and did not close properly. Road edge
	Washout	√	and beach embankment eroded due to previous
	Roadway Stone Condition	√	severe weather. Interim repairs to the gate are no
8	**PERIMETER, FENCE, GATES & LOCKS**		longer adequate. The proposed repairs due to
	Vandalism	√	previous damage remains the same. The
	Debris	√	embankment was repaired in February 2013.
	Fence Damage	√	One of the project signs was lost during the
	Gate Alignment and Swing Action	*NS*	hurricane.
	Lock Lubrication and Function	√	Weekly fence inspections. Hole found and
			repaired on June 3rd.

FORM DP-1

ANCILLARY SYSTEMS: ANS-1

Month: JUNE 2013

DESCRIPTION OF DEFICIENCIES AND PROBLEMS

PENNSYLVANIA AVENUE LANDFILL

Date	Location	Description	Corrective Action Taken
6/28/13	Gate to 26th Ward WWTP and Hendrix Creek embankment	The road and embankment was eroded by previous severe weather. While impacted by Hurricane Sandy, the proposed repair due to previous damage remains the same. The interim fix to the gate post is no longer adequate. The embnkment rip rap repair is preventing further damage.	This work has been tied in to the storm damage change order.
6/28/13	Road D	Road and embankment severe washout and erosion by Hurricane Sandy surge. The material deposited by the hurricane around the pump stations was removed and spread on the road to partially rebuild it and provide access.	Condition continues to deteriorate; temporary repairs are performed to maintain access. The WOA was submitted and has been tied in to the storm damage change order.
6/28/13	Project sign	One of the project signs was lost during the hurricane.	The replacement signs have been received. Working on WOA for the repair of the damaged support structure.
6/28/13	Embankment North of the pier power transformer cage across from the Flare Station	Embankment erosion caused by Hurricane Sandy	This work has been tied in to the storm damage change order.

Date: 6/28/2013 **Inspected By: : Ed E. McLean**

Signature 

Appendix E –Landfill Gas Migration Monitoring

Perimeter Soil Gas Monitoring Field Log

PENNSYLVANIA AVENUE LANDFILL PERIMETER SOIL GAS MONITORING REPORT

PERIMETER SOIL GAS MONITORING REPORT

DATE:	**14-Jun-13**		**TECH:**	**John Matthews**		**WEATHER:**	Mostly Cloudy (wind gusts)		
			WIND						**Baro Press.:**
AMBIENT TEMP. (^{o}F):		**46**	**DIRECTION:**	North		**SPEED (MPH):**		**14**	29.91
Well ID	**Well Depth (ft)**	**Well Volume (liters)**	**Purge Volume (liters)**	**Purge Interval (min.)**	**Sample Time**	**% Methane**	**% Carbon Dioxide**	**% Oxygen**	**Comments**
PENN GWW-01	**12**	**7.4**	**14.8**						Well is flooded, could not be monitored
PENN GWW-02	**10**	**6.2**	**12.4**	**6**	**10:05**	**0.0**	**2.7**	**19.1**	
PENN GWW-03	**11**	**6.8**	**13.6**	**7**	**10:20**	**0.0**	**4.5**	**16.3**	
PENN GWW-04	**10**	**6.2**	**12.4**	**7**	**9:43**	**0.4**	**9.1**	**4.7**	
PENN GWW-05	**12**	**7.4**	**14.8**	**8**	**9:23**	**0.0**	**2.9**	**18.8**	

Access to GMW-01 was provided by the contractor and found to be flooded. Repair of this well is scheduled to be completed by the Belt Parkway rehabilitation contractor; well details have been provided.