Attachment A-6



# Scranton Sewer Authority Lackawanna County, Pennsylvania

# Chapter 94

# Municipal Wasteload Management Report

For the Calendar Year of 2014

**NPDES Permit Number PA0026492** 

Prepared by the Staff of the Scranton Sewer Authority

# The Sewer Authority of the City of Scranton Lackawanna County, Pennsylvania

# 2014 Municipal Wasteload Management Report

# March 2015

I hereby certify that this Municipal Wasteload Management Report has been prepared by the SSA staff in accordance with Title 25, Part 1, Subpart C, Article II, Chapter 94, of Commonwealth of Pennsylvania Regulations.

I herby certify that I have personally examined and am familiar with the information submitted in this document and, that based on my inquiry of those individuals responsible for obtaining this information; I believe the submitted information to be true, accurate, and complete.

Submitted by:		
•	THOMAS J. STONE	

Chairman of the Board
The Sewer Authority of the City of Scranton

# Contents

Section	<u>n</u>	<u>Title</u> <u>P</u>	age
1.0	INTRODUCT	ION	
	1.2	Description of Wastewater Collection, Conveyance, and Treatment	I
	Facilities	1	
2.0	HISTORICAL 2.1	HYDRAULIC AND ORGANIC LOADINGSHistorical Hydraulic Loading	
3.0	PROJECTED 3.1	HYDRAULIC AND ORGANIC LOADINGSProjected Hydraulic Loading	
	3.2	Projected Organic Loading	4
4.0 5.0		N SYSTEM CONNECTIONS AND EXTENSIONS N SYSTEM MONITORING, MAINTENANCE AND REPAIR Collection System Monitoring	5
	5.2	Collection System Maintenance	7
6.0 7.0	CONDITION	OF COLLECTION SYSTEMOF PUMPING STATIONS	8
8.0 10.0	<b>SOLIDS HAN</b>	WASTE REPORTIDLING AND DISPOSAL	11
11.0 12.0		SEWER OVERFLOW STATUS REPORT	



<u>Table</u> <u>Title</u> 1 **Pumping Station Flow Projections Exhibits** Exhibit **Title** A Historical Hydraulic Loading Summary Historical Organic Loading Summary B Projected Hydraulic Loadings from New Connections C D Hydraulic and Organic Loading Projections **Figures Figure Title** Hydraulic Loading Graph 1 2 Organic Loading Graph Appendices **Appendix** <u>Title</u> 1 Calibration Report 2 Dickson City - Chapter 94 Information Worksheet Montage Sewer District - Chapter 94 Information Worksheet 3 4 Taylor Borough Municipal - Chapter 94 Information Worksheet Collection System Extensions 5

**Tables** 



6

7

8

9

10

**Pumping Station Drawdowns** 

Solids Management Inventory

Municipal Industrial Pretreatment Program Report

Yearly Influent, Effluent and Sludge Data

Quarterly Influent, Effluent and Sludge Data

#### 1.0 INTRODUCTION

# 1.1 Governing Regulations

The Pennsylvania Department of Environmental Protection (PADEP) has adopted regulations under Chapter 94 of the PADEP Rules and Regulations entitled "Municipal Wasteload Management". These regulations set forth general provisions and information requirements to be included in an Annual Report on all wastewater conveyance and treatment facilities. The Annual Report's effective intent is to assist municipalities in assuring that the necessary wastewater conveyance and treatment capacities will be provided to meet anticipated growth demands. A 5-year planning interval is employed for treatment plants and a 2-year interval is utilized for pumping stations. If the wastewater treatment plant or pumping stations are found to be, or projected to be, hydraulically or organically overloaded within the planning period, specific steps are required to alleviate or prevent this overload condition.

This Annual Report is prepared in accordance with the requirements of Pennsylvania Code Title 25 Chapter 94, and includes hydraulic and organic loading projections, an industrial waste report, a summary of constructed and proposed sewer connections and extensions, a description of collection system monitoring, maintenance, repair, and rehabilitation, a discussion of the condition of the collection system and pumping stations, a solids handling and disposal summary, and a CSO Status Report.

# 1.2 Description of Wastewater Collection, Conveyance, and Treatment Facilities

The Sewer Authority of the City of Scranton owns the wastewater collection, conveyance and treatment system serving the City of Scranton and the Borough of Dunmore. The Authority, also known as the Scranton Sewer Authority (SSA), maintains the wastewater collection, conveyance, and treatment system, collectively known as the Scranton Sewer System.

Adjacent portions of the Lower Lackawanna Valley Sanitary Authority (LLVSA) and the Lackawanna River Basin Sewer Authority (LRBSA) are also served by the Scranton Sewer Authority. The LLVSA service area includes part of the Borough of Taylor. The LRBSA service area includes the Borough of Dickson City, also known as the Siniawa Sewer System,



and the Montage Sewer District, in the Borough of Moosic.

The SSA wastewater collection and conveyance system consists of over 275 miles of collection sewers and large interceptors, eighty (80) permitted combined sewer overflows (CSOs), and seven (7) pumping stations. Approximately 63% (172 miles) of the collection sewers are combined sewers, which convey combined stormwater and sanitary sewage flow to regulator chambers prior to connection with an interceptor sewer. Under high wet-weather flow conditions that exceed the capacities of downstream facilities, the regulators direct combined sanitary sewage and stormwater to the receiving streams. The permitted CSO discharge points in the sewer system include one (1) WWTP bypass, sixty-three (63) CSO regulators, twelve (12) diversion manholes, and four (4) pumping station overflow outlets.

The SSA Wastewater Treatment Plant (WWTP) discharges treated effluent to the Lackawanna River under National Pollutant Discharge Elimination System (NPDES) Permit No. PA0026492. The WWTP has an annual average design hydraulic capacity of 20.0 million gallons per day (mgd) and an annual average design organic loading capacity of 44,550 lbs BOD<sub>5</sub>/day. The WWTP includes the following processes:

- Screening and Grit Removal;
- Primary Settling;
- Activated Sludge Process;
- Secondary Settling;
- Chlorine Disinfection; and
- Sulfur Dioxide Dechlorination.
- BNR

Excess solids generated at the SSA WWTP are rotary-drum thickened and dewatered on Belt Filter Presses (BFPs). Lime post treatment is utilized to provide further dewatering and partial stabilization. Dewatered sludge is hauled to the Keystone Sanitary Landfill for final disposal.

In 2010 the Scranton Sewer Authority entered into a professional agreement to design and construct upgrades to the WWTP to comply with federal and state mandated biological nutrient reduction (BNR) limits. For this BNR Project, the Scranton Sewer Authority completed the design phase and the project went out to bid in 2011. This project was awarded and construction began in 2012. The BNR construction was substantially completed in 2014 and BNR process optimization was initiated.

Over the past few years the Authority has struggled with finding a flow metering system that would be installed in the plant influent line. The Authority has had numerous flow monitoring vendors look at the application at the WWTP influent with zero success. Today the SSA has designed into their BNR upgrade, the use of weir plates in the same locations as the Parshall flumes to monitor flow. This location is between the primaries and the aeration tanks. These sharp crested weir plates were installed and implemented during 2014 under the BNR project. The weirs have been calibrated and are providing trouble free and accurate flow measurement.

#### 2.0 HISTORICAL HYDRAULIC AND ORGANIC LOADINGS

### 2.1 Historical Hydraulic Loading

Hydraulic loadings for 2010 through 2014 are summarized in Exhibit A. This data is also presented graphically on Figure 1. The annual average daily wastewater flow to the WWTP during 2014 was 12.84 mgd, with a maximum consecutive 3-month average daily flow of 15.35 mgd. The monthly average flows recorded in 2014 were well within the WWTP design hydraulic loading capacity of 20.0 mgd. The ratio of the maximum consecutive 3-month average daily flow to the annual average flow for 2014 was 1.2. The WWTP's flow meters are calibrated once per year, and a copy of the most recent flow meter calibration certification is included as Appendix 1.

# 3.0 PROJECTED HYDRAULIC AND ORGANIC LOADINGS

# 3.1 Projected Hydraulic Loading

Anticipated new connections from development in the sewer service area for 2015 through 2019 are summarized in *Exhibit C*. The projected annual average daily flows are based on the anticipated growth and the respective estimated flow contribution. Information on new and projected connections was received from each contributing municipality, as shown in *Appendices 2, 3,* and 4. Projected hydraulic and organic loadings to the WWTP for the 5-year projection period (2015 to 2019) are presented in *Exhibit D*. These projections are based on increased wastewater flows resulting from anticipated development in the sewer service area.

The historical 5-year annual average daily flow, from 2010 to 2014 was used as the 2015 base flow rate for projecting the hydraulic loadings to the WWTP through 2019. Each projected annual flow increase resulting from new residential and non-residential development was added to the preceding annual average daily flow to compute the projected annual average flow. The maximum 3-month average daily flows for the projection period were calculated by applying the historical 5-year average maximum 3-month average flow-to-annual average daily flow ratio (1.13). Based on the data presented in *Exhibit D*, the 2019 maximum 3-month average daily flow is projected to be 13.967 mgd, which is well below the 20.0 mgd annual average daily design hydraulic capacity for the WWTP, as shown on *Figure 1*.

# 3.2 Projected Organic Loading

The projected annual average BOD<sub>5</sub> increase for each year of the projection period is calculated using the annual average daily flow projections reported in *Exhibit A*, and an equivalent BOD<sub>5</sub> concentration of 122mg/L. This average equivalent BOD<sub>5</sub> concentration was calculated from the historical 5-year annual average flow to the WWTP from *Exhibit A*.

The projected maximum month organic loads for the 2015 through 2019 planning period are calculated by applying the 5-year historical average maximum month-to-annual average daily loading ratio (1.10) to the projected annual average daily organic loadings for each projection year. Based on the data presented in Exhibit D, the 2019 annual average organic loading is projected to be 12,661 lbs BOD<sub>5</sub>/day and the projected monthly maximum organic loading is

15,446 lbs/BOD/day, which is well below the current 44,550 lbs BOD<sub>5</sub>/day annual average organic loading design capacity for the WWTP, as shown on Figure 2.

# 4.0 COLLECTION SYSTEM CONNECTIONS AND EXTENSIONS

New connections to the collection system and their resulting flows are summarized in *Exhibit C*. New connections, as well as proposed flows during the 5-year projection period are summarized by municipality: the City of Scranton, the Borough of Dunmore, the Borough of Taylor, the Borough of Dickson City, and the Borough of Moosic. Information regarding new and proposed connections and extensions to the collection system was received from each contributing municipality, as included in *Appendices 2*, 3, and 4. In 2014 there were no sewer extensions in the City of Scranton or Borough of Dunmore.

# 5.0 COLLECTION SYSTEM MONITORING, MAINTENANCE AND REPAIR

The wastewater collection and conveyance system is maintained and operated by the SSA staff. The SSA employs a full-time collection system staff composed of approximately forty (40) employees. SSA staff performs routine and emergency monitoring, maintenance, and repair work of the collection system, occasionally utilizing subcontractors as necessary.

# 5.1 Collection System Monitoring

The SSA characterizes the frequency, duration and volume of CSO discharges on a monthly basis on the monthly CSO Discharge Monitoring Reports (DMRs) which are submitted to the PADEP. Wooden blocks were installed in all of the CSOs as an indicator device to determine whether regulators have been active. Inspections document the dates the regulators were checked and the presence or absence of previous overflows. The CSO inspections consist of checking the presence of debris at the regulator and outfall pipe, and the amount of flow in the channel. Inspection forms are completed during each CSO inspection. The SSA incorporated the CSOs and flow meters into the Job Plus work order database system to better track and manage CSO / flow meter activities. This database is utilized in the field through the use of laptops and wireless connections.

The SSA has devoted additional resources to inspection, maintenance and repair of all CSO locations. These resources include additional staff, database implementation, equipment, improved procedures and standby manpower.

Combined sewer overflows are monitored by placing a block of wood in the majority of the CSO regulators. Additionally the SSA is required to flow monitor at fifteen (15) CSO locations and report them on the monthly DMR. Today the SSA has an average of twenty (20) flow metering systems installed throughout their collection system to continually monitor the CSO locations. Dry weather overflows are recorded when visually observed or when determined from the flow metering technologies. All the above is documented and on record at the SSA Office. Any and all Dry Weather Overflows are reported immediately and again in the monthly DMR.

Pumping stations are inspected five (5) days per week and logged into the Job Plus database. This database maintains the Operation and Maintenance (O&M) activities. This includes observations of blocks of wood placed in the emergency overflows and recording of storm pump operation. As the pump stations were upgraded with the Phase III of the Capital Improvements, alarm systems were added to the pump stations that send signals back to the SCADA system in the treatment facility, which allow an operator to immediately address any issue.

The SSA intends to clean and inspect the entire system over a 10 year cycle. The goal of the program is to televise a three-year rolling average of at least 150,000 feet per year to assess potential problems in need of repair. Approximately 168,289 feet of sewers were televised during 2014. Log sheets and videos of the work are maintained at the WWTP. During 2010 the SSA has characterized the grit in the main interceptor. A RFP was completed and the bid was awarded to Magnaflow for the cleaning of the interceptor. The interceptor cleaning was performed during 2011.

# 5.2 Collection System Maintenance

Normal O&M of the wastewater collection, conveyance, and treatment facilities includes daily records of operation. A Computerized Managed Maintenance System (CMMS) for preventative maintenance was initiated in January 2003. The SSA is utilizing Job Plus Version 2.9.3. This program generates work orders and maintains records for the maintenance, operations, sludge handling, pump station, vehicle maintenance, CSO, and flow meter departments. Through January of 2014, collection system records were recorded and maintained in an in-house written program called Collection Activity Tracking System (CATS). This program worked well for basic tracking and record keeping, but did not work for projecting and scheduling work along with capital improvement. In an effort to better maintain the collection system and more effectively manage the workforce the SSA decided to implement a GIS based asset management system. Through 2012 and 2013 the Authority investigated several different asset management software packages including Lucity, City Works and Innovyze. The asset management system selected by the SSA was Lucity, formerly GBA. On February 1st 2014 the Authority went live with the Lucity asset management system. Currently the SSA is using Lucity to track and maintain collection system records which include line maintenance, televising, basin cleaning, basin repair, sewer repair and emergency calls. The Collection and Basin Crews were the first to go on-line with this system. Currently all collection system activities, with the exception of CSO and pump stations are recorded in the SSA's asset management system. Work orders are sent to the trucks in real time and are updated and closed on site. The Authority has spent a significant amount of time and money making sure that collection system staff has the tools they need to best serve the Authority's customers. In the near future, the SSA's CSO, Flowmeter, Pump Station, Operations and Maintenance Departments will be integrated into the Authority's asset management system.

# 6.0 CONDITION OF COLLECTION SYSTEM

The collection system is composed of a variety of mains and interceptors dating back to the 1870s. Older sewers less than 24-inch diameter were commonly of terra-cotta clay construction, and mains greater than 24-inch diameter often were of brick construction. The Authority's Main Interceptor is constructed of reinforced concrete pipe. Based on information

provided by SSA staff and the 2008 RedZone Robotics inspection, the collection system generally appears to be in satisfactory condition. Preventive maintenance activities are routinely performed by SSA staff to optimize the operation of the system and to minimize the occurrences of blockages.

# 7.0 CONDITION OF PUMPING STATIONS

The SSA currently operates and maintains seven (7) pumping stations within its collection system:

- Dorothy Street Pumping Station;
- Froude Street Pumping Station;
- Keyser Valley Pumping Station;
- Middle Street Pumping Station;
- Myrtle Street Pumping Station;
- Parrott Street Pumping Station; and
- Shawnee Avenue Pumping Station.

All seven (7) pumping stations are maintained and inspected by SSA staff on a regular basis. Pumping stations inspections typically occur five (5) days per week, Monday through Friday, to ensure proper operation. Cleaning, repairs, and routine maintenance items are performed regularly. Preventative maintenance to the pumping stations in 2014 included:

- Changing pump motor oil, according to manufacturer specifications;
- Cleaning wet wells of each pumping station on a routine basis; and
- Operating emergency power generators, under load, on a weekly basis.

Tracking the average daily flows from the pumping stations is a standard diagnostic tool to help assess the performance of the facilities. Changes in the flows can indicate pump problems. Excessive flow variation is an indication of Inflow and Infiltration (I/I) issues. Pump station pumping rates are also necessary for projecting hydraulic overload conditions. The average monthly flows of each pumping station are calculated based on the hours of operation of

each pump, recorded from runtime meters, and the capacity of the pumps, from the most recent wet well drawdown test.

The capacity of a pump is not a constant value. When a pump station is initially placed in service, the pumps typically discharge at a rate significantly higher than the rated capacity because friction loss factors are designed conservatively high and head loss is not excessive. Over time, normal wear on the pumps and force main cause the pumping capacity to decrease closer to the rated capacity. As pumps age, their capacity may further decrease due to worn components or operational problems. To accurately calculate the average flow from a pumping station, drawdown tests must be conducted on each pump to determine its actual pumping capacity. Results of the most recent pumping station drawdown tests are included in *Appendix 6*.

The runtime hour meters of each pump are recorded at the seven (7) pumping stations during routine inspection visits conducted 5 days per week. The total flow from a pumping station is the sum of the volume pumped by each pump at the pumping station per day. The volume pumped from a pump is calculated by multiplying the runtime of the pump by the pump capacity as determined through drawdown testing. The SSA has begun to track the average monthly flows at each of the pumping stations, utilizing data that are already collected by SSA staff, as a diagnostic tool to assess the condition of the facilities.

The 2014 annual average flows are estimated based on the capacities of the pumps and the actual run time for the pumping equipment in each pumping station. The projected 2016 annual average daily flow for each pumping station is the sum of the 2014 annual average daily flow and the anticipated flow increases from residential and non-residential development planned in that pumping station's service area through 2016. The projected maximum day flows for 2015 were calculated by applying the historical maximum daily-to-average annual peaking factor to the projected average annual daily flow for each pumping station. The average annual daily flows for each pumping station are projected to remain below the rated capacity of the respective pumping stations through 2016.

The SSA continues to develop a written Preventative Maintenance (PM) Program for the pumping stations. The PM Program establishes a timetable for all routine maintenance activities, as well as creates a format to document and track these activities, including oil changes and drawdown tests.

# 8.0 INDUSTRIAL WASTE REPORT

During 2014, the SSA continued operation of the USEPA-approved Municipal Industrial Pretreatment Program (MIPP). The SSA continues to implement numerous operational and record-keeping changes to once again bring the Program into compliance with all applicable USEPA regulations.

Fourteen (14) significant industrials users (SIUs) are currently connected to the system and permitted under the SSA MIPP, of which five (5) are considered Categorical Industrial Users by definition. All permitted industrial users were inspected and applicable sites were sampled in 2014. All industrial users submitted the required self-monitoring reports under the terms of their industrial discharge permits. All SIUs also have current Control Documents. Fourteen (14) Notices of Noncompliance/Notices of Violation (NOVs) were issued in 2014. Two (2) SIUs were considered in significant non-compliance (SNC) during 2014. One of the permitted industries was on a compliance schedule in 2014. Details of the regulated industries are provided in the copy of the SSA's 2014 Municipal Industrial Pretreatment Performance (MIPP) Annual Report included in Appendix 7. Also included in Appendix 7 are laboratory results from quarterly influent, effluent, and sludge sampling. A copy of the Scranton Times newspaper article listing the industrial users considered to be in SNC during 2014 will be sent to EPA.

# 9.0 OVERLOAD REDUCTION PLAN

# 9.1 Wastewater Treatment Plant

Based upon the hydraulic and organic loading data and projections presented in *Exhibit D* and on *Figures 1* and 2, neither a hydraulic nor an organic overload is anticipated at the WWTP during the 5-year projection period.



# 9.2 Pumping Stations

Based upon the hydraulic loading data and projections presented in *Table 1*, overload conditions at the SSA pumping stations are not projected during the 2-year projection period.

# 10.0 SOLIDS HANDLING AND DISPOSAL

Excess solids generated at the SSA WWTP are rotary drum thickened and dewatered on BFPs. Lime post treatment is utilized to provide further dewatering and partial stabilization. Dewatered sludge is hauled to the Keystone Sanitary Landfill (Solid Waste Permit No. 101247) for final disposal. The quantities of sludge land-filled are reported to the Bureau of Waste Management on a monthly basis. During 2014, the SSA reported that 11,780 Metric tons of wet sludge, with an average percent total solids (% TS) of 28.27%, were dewatered and disposed of at the landfill. This equates to a total dry solids production of 3,330 dry Metric tons in 2014.

Biosolids production data have been calculated based on the daily volumes of wet tons of biosolids hauled to the landfill. The wet tons of dewatered biosolids are weighed on a scale at the landfill. Dry tons of biosolids are then calculated using the wet tons of biosolids and % TS of the sludge cake. This method, however, does not yield an accurate dry biosolids production tonnage.

In addition to the dewatered biosolids, grit and stormwater basin catchings are transported in the same dump trucks for disposal at the landfill. Therefore, the total wet tons recorded at the landfill scale are not only dewatered biosolids, but also grit and catchings. Additionally, the dewatered biosolids cake % TS used to calculate the dry tons is cake before lime addition. The biosolids cake loaded into the dump trucks and hauled to the landfill, however, is a combination of solids and quick lime and, therefore, will most likely have a higher % TS than the cake prior to lime addition.

With Phase II upgrades complete, the SSA will begin to monitor BFP operational data to calculate the biosolids production values instead of wet tons weighed at the landfill. Operational data, including feed sludge gallons per day and % TS, recycle gallons per day and % TS, and lime feed lbs per day, will allow for a more accurate measure of dry solids produced.



# 11.0 COMBINED SEWER OVERFLOW STATUS REPORT

The majority of the collection system is a combined sewer system conveying both sanitary sewage and stormwater to the WWTP. Part C of the SSA NPDES Permit contains a requirement for the submission of an Annual CSO Status Report to PADEP with the Municipal Wasteload Management Report. The SSA CSO Status Report for 2014 is contained in a separate binder transmitted with this Report.

# 12.0 SOLIDS MANAGEMENT INVENTORY

Included in appendix 10 is a copy of the Scranton Sewer Authority's "Solids Management Inventory".





# **PUMPING STATIONS FLOW PROJECTIONS**

			2014 (Act	ual Flows)	2015 (Projections)_		
Pumping Stations	2012Rated Capacity (1), MGD	2015 Rated Capacity (1), MGD	Average Daily Flow (2), MGD	Maximum Daily Flow (3), MGD	Additional Average Daily Flow (4), MGD	1 7 7 7 7	Peak Hourly Flow (6), MGD
Dorothy Street	0.223	0.042	0.017	N/A	0.000	0.017	0.042
Froude Street	0.191	0.032	0.017	N/A	0.000	0.017	0.041
Keyser Avenue	1.661	0.671	0.279	N/A	0.000	0.279	0.697
Middle Street	0.694	0.689	0.148	N/A	0.000	0.148	0.371
Myrtle Street	1.357	0.995	0.291	N/A	0.000	0.291	0.728
Parrot Street	0.389	0.862	0.036	N/A	0.000	0.036	0.090
Shawnee Avenue	0.188	0.145	0.017	N/A	0.000	0.017	0.042

#### Notes:

- (1) Maximum pumping station capacity with one pump on and the stormwater pump out of service, based on drawdown test pump capacities
- (2) Based on run time hour meter readings and drawdown test pump capacities
- (3) Peak daily flows are unavailable because pump run times are not recorded daily at the pumping stations
- (4) Based on the anticipated number of connections to the pumping station through 2015 from Table D.
- (5) Average daily flow during 2011 plus the additional average daily flow projected through 2015.
- (6) Based on the anticipated number of new connections to the pumping station through 2015and an estimated Peaking Factor of 2.5

Exhibit A

Historical Hydraulic Loading Summary

# EXHIBIT A Scranton Sewer Authority

# HISTORICAL HYDRAULIC LOADING SUMMARY (1)

<u>Month</u>	<u>2010</u>	<u>2011</u>	2012	<u> 2013</u>	2014
January	11.77 *	9.36	11.58	13.846 *	13.35
February	10.67 *	14.35	10.36	12.00 *	12.79
March	16 *	17.43 *	10.88	11.786 *	14.89 *
April	13.32	17.15 *	10.13	10.911	16.55 *
May	10.61	14.93 *	12.75 *	12.669	14.62 *
June	10.3	12.09	11.12 *	13.60	12.52
July	9.9	10.1	10.31 *	11.164	12.35
August	9.59	12.19	10.28	10.536	11.68
September	8.95	14.86	10.73	10.553	10.81
October	13.97	13.25	12.34	10.119	12.41
November	11.26	12.41	10.05	10.935	10.31
December	<u>11.43</u>	13.81	<u>10.69</u>	<u>12.961</u>	<u>11.84</u>
Annual Average Flow	11.48	13.49	10.94	11.76	12.84
5-Year Annual Average					
Hydraulic Loading					12.102
Maximum 3-Month Average					
Daily Flow	12.8133	16.50	11.393	12.476	15.353
Ratio (Maximum 3-Month					
Average to Annual Average)	1.12	1.22	1.04	1.06	1.20
Average Ratio to be used to project future Maximum 3-Month Average Daily Flows					1.13

\* Maximum 3-Month Flow Period

# Notes:

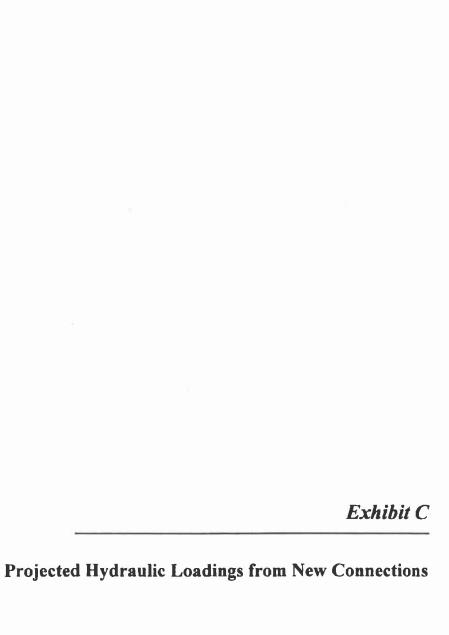
(1) Flow values are presented in million gallons per day (mgd)



Historical Organic Loading Summary

	EXHIBIT	В			
	Scranton Sewer	Authority			
	L ORGANIC LO		IMARY <sup>(1)</sup>		
Month	<u> 2010</u>	2011	2012	2013	2014
January	16308	10534	11917	12398	11430
February	15574	12671	16129	13136	12249
March	16347	13676	17029	13424	12768
April	14703	15137	13770	12081	13037
May	13835	11074	13458	13234	11290
June	12941	9500	10959	12989	13311
July	11402	8981	12996	9263	12866
August	11537	8977	15614	10597	10881
September	11667	10036	14738	9869	13061
October	8575	10632	14702	9579	12054
November	12319	10439	13008	11770	11696
December	<u>11488</u>	<u>12251</u>	<u>8991</u>	<u>10474</u>	<u>10085</u>
Annual Average	13058	11159	13609	11568	12061
5 Year Annual Average Organic Loa (Ibs BOD <sub>5</sub> /day)	ading				12290.95
5 Year Equivalent Organic Concent (mg BOD₅/L)	ration				122
Maximum Month	16347	15137	17029	13424	13311
Ratio (Maximum Month to Annual Average)	1.25	1.36	1.25	1.16	1.10
		1,36			1.10
Average Ratio to be used to project					

Notes:  $$^{(1)}$$  Loading values are presented in pounds of BOD  $_{\rm S}$  per day (iba BOD,/day)



# **EXHIBIT C**

# Scranton Sewer Authority PROJECTED HYDRAULIC LOADINGS FROM NEW CONNECTIONS

		EDUs						
Developments	Total Planned	Connected in 2014	Connected as	2015	2016	2017		2242
City of Scranton (a)	Planned	2014	of Dec 31, 2014	2015	2016	2017	2018	2019
Worksheet Data		88	88					
Miscellaneous	150	00	88	150	150	450	0	
Sub-Total EDUs	150		I I	150	150	150 150	150 150	150 150
Sub-Total Annual Average	130			130	150	150	150	150
Daily Flow Increase, god (b)	39,750	23,320	23,320	39.750	39.750	20.750	00.750	00.755
Borough of Dunmore (a)	39,730	23,320	23,320	39,750	39,750	39,750	39,750	39,750
Worksheet Data	0	42	42					
Miscellaneous	25	44	44	25	0	0	0	
Sub-Total EDUs	25				25	25	25	25
Sub-Total Annual Average	25			25	25	25	25	25
Daily Flow Increase, gpd (b)	8625	11,130	11,130	8625	6825	6625	6625	0000
Borough of Taylor (c)	0023	11,130	11,130	0023	6625	6625	8625	6825
Worksheet Data		0		2				-
Miscellaneous		,	١	٥	2	u e	0	
Sub-Total EDUs	5			5	2	9	5	0
Sub-Total Annual Average	1 "			"	3	ຳ	- 5	
Daily Flow Increase, god (b)	1325	0	0	1325	1325	1325	1325	1325
Borough of Dickson City (d)	1020	- 0	- 4	1323	1323	1323	1525	1323
Worksheet Data		18	18	16	0	0		
Miscellaneous	5	10	1"	5	6	5		
Sub-Total EDUs	5			21	5	5	5	5
Sub-Total Annual Average	1 1			- '	1	1	"	5
Daily Flow Increase, god (b)	1325	4770	4770	5585	1325	1325	1325	1325
Borough of Moosic (e)	1020	11.0	77.10	0000	1020	1020	1020	1020
Worksheet Data	5	2	2	3	3	3	3	3
Miscellaneous	5	_	-	5	5	5	5	5
Sub-Total EDUs	10			8	6	В	В	8
Sub-Total Annual Average				-		1		
Daily Flow Increase, gpd (b)	2650	530	530	2120	2120	2120	2120	2120
Total EDUs	195	150	150	209	193	193	193	193
Total Annual Average				- 1				
Daily Flow Increase, mgd	0.052	0.040	0.040	0.065	0.051	0.051	0.051	0.051
Notes						•	•	

(a) Provided by the Scranton Sewer Authority

(b) Additional Flow increase calculated based on 265 gpd/EDU usage

<sup>(</sup>c) Provided by the Lower Lackswanna Valley Sewer Authority
(d) Provided by the Lackswanna River Basin Commission
(a) Provided by the Lackswanna River Basin Authority



	EXHIBIT	D			
Scra	nton Sewer	Authority			
HYDRAULIC AND C			PO IECTI	ONS	
				ONS	
HYDRAULIC					
Previous Year's Annual Average Flow	<u>2015</u>	<u>2016</u>	<u>2017</u>	2018	2019
(mgd) (1)	12.102	12.152	12.204	12.256	40.000
Projected Annual Average Flow	12.102	12.132	12.204	12.250	12.308
Increase (mgd) (2)	0.050	0.052	0.052	0.052	0.052
Projected Annual Average Flow (mgd) Maximum 3 month Average Flow Ratio	12.152	12.204	12.256	12.308	12.360
(3)	1,13	1.13	1.13	1.13	1.13
Projected Maximum 3 month Average					
Flow (mgd)	13.732	13.791	13.849	13.908	13.967
ORGANI	C LOADING PR	OJECTIONS	<b>,</b>		
Previous Year's Annual Average			•		
Organic Loading (lbs BOD/ day) (4) Projected Annual Average Organic	12291	12365	12439	12513	12587
Loading Increase (lbs BOD/day) (5)	74	74	74	74	74
Projected Annual Average Organic					
Loading (lbs BOD/ day) (4)	12365	12439	12513	12587	12661
Maximum Month Organic Loading Ratio					
	1.22	1.22	1.22	1.22	1.22
Projected Monthly Maximum Organic Loading (lbs BOD/day)	15085	15176	15266	15356	15446
Notes.					

Average Flow for 2014 is the 5 year annual average flow from Exhibit A

Projected Flow increase from Exhibit C

Ratio from Exhibit A

<sup>&</sup>lt;sup>41</sup> Average organic loading for 2014 is the 5 year Annual Average Loading from Exhibit B

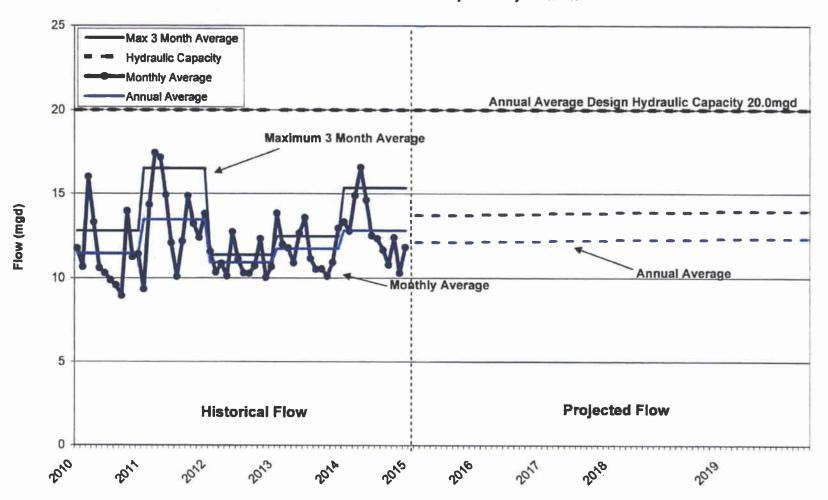
Annual Average organic loading increases based on an average equivalent BOD concentration of 122 mg/L from Exhibit B and projected Annual Average Daily flow increase from Exhibit C

Ratio from Exhibit B



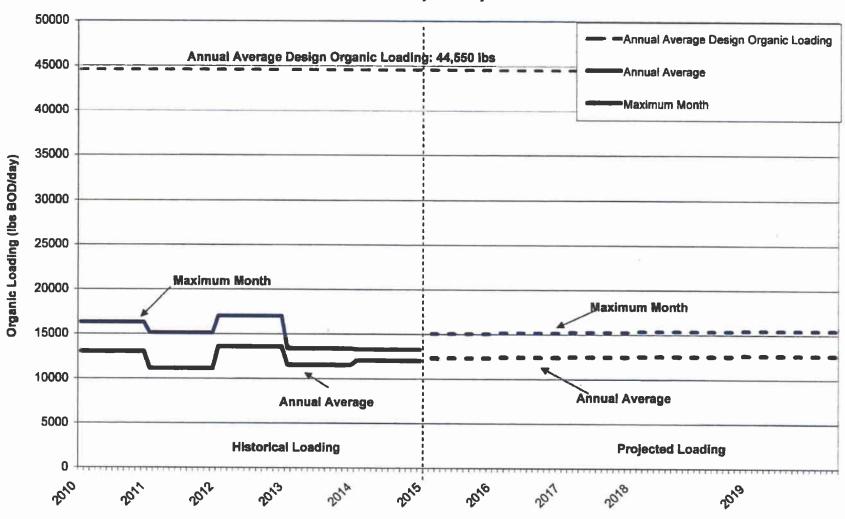
# **Hydraulic Loading Graph**

The Sewer Authority of the City of Scranton





Organic Loading Graph
The Sewer Authority of the City of Scranton





**Calibration Report** 

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

# \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 2/25/2015 METER#: C8017 AA

LOCATION: COMBINED SEWER OVERFLOW

SERIAL #: D73

**MANUFACTURER: AMERICAN SIGMA** 

**RECORDER:** N/A TRANSMITTER: 950

PRIMARY: AREA X VELOCITY MAXIMUM CAPACITY: 78" PIPE SERVICE CONTRACT: ANNUAL

# \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

LEVEL AND VELOCITY CHECK

ERROR: +.80" CORRECTED ACCURACY: ± .125"

**COMMENT:** PERFORMED ANNUAL CALIBRATION. CLEANED SENSORS. PERFORMED CONFINED SPACE ENTRY. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

copies: RICHARD HARRISON

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

# \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL **SCRANTON SEWER AUTHORITY** 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

**SERVICE DATE: 2/25/2015** METER#: C8017 AB **LOCATION:** FLUME #3 SERIAL #: H6003C150E6 MANUFACTURER: E&H RECORDER: N/A **TRANSMITTER: FMU 90** 

PRIMARY: 59.75" WEIR **MAXIMUM CAPACITY: 25 MGD SERVICE CONTRACT: ANNUAL** 

# \*WORK PERFORMED\*

**CLEANED EQUIPMENT: X** PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: -1.2% **CORRECTED ACCURACY: ± 1%** 

COMMENT: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. FOUND MAX CAPACITY SET TO 15.332 MGD. CORRECTED. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

copies: RICHARD HARRISON

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

# \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 2/25/2015 METER#: C8017 AC LOCATION: FLUME # 2 SERIAL #: H6003D150E6 MANUFACTURER: E&H RECORDER: N/A

TRANSMITTER: FMU 90 PRIMARY: 59.88" WEIR

MAXIMUM CAPACITY: 25 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: -1.2% CORRECTED ACCURACY: ± 1%

**COMMENT: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. LEFT EQUIPMENT OPERATING PROPERLY.** 

**SERVICE REPRESENTATIVE:** DAVID/BOB

copies: RICHARD HARRISON

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# \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 2/25/2015 METER#: C8017 AD LOCATION: FLUME # 4 SERIAL #: H6003E150E6 MANUFACTURER: E& H RECORDER: N/A

TRANSMITTER: FMU 90
PRIMARY: 59.5" WEIR

MAXIMUM CAPACITY: 12 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0% CORRECTED ACCURACY: ± 1%

**COMMENT:** PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. FOUND MAX CAPACITY SET TO 15.332 MGD. CORRECTED. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

copies: RICHARD HARRISON

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 2/25/2015 METER#: C8017 AE LOCATION: FLUME # 1 SERIAL #: H60003A150E6 MANUFACTURER: E&H RECORDER: N/A

TRANSMITTER: FMU 90 PRIMARY: 59.88" WEIR

MAXIMUM CAPACITY: 12 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A

ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0, 25, 50, 75 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0% CORRECTED ACCURACY: ± 1%

**COMMENT:** PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. FOUND METER SCALED TO 23.366 MGD. CORRECTED. TESTED OUTPUT TO SCADA. LEFT EQUIPMENT OPERATING PROPERLY.

**SERVICE REPRESENTATIVE:** DAVID/BOB

copies: RICHARD HARRISON

**PERSON SEEN: JEREMY** 

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JEREMEY HULL SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 2/25/2015 METER#: C8017 AQ LOCATION: FLUME #5 SERIAL #: H6003B150E6 MANUFACTURER: E&H

RECORDER: N/A
TRANSMITTER: FMU 90
PRIMARY: 60" WEIR

**MAXIMUM CAPACITY: 12 MGD** 

**SERVICE CONTRACT:** 

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0, 50, 100% ERROR: 0% CORRECTED ACCURACY: ±1%

\*TRANSMITTER CALIBRATION\*
SIMULATED HEAD RISES AND FLOW MEASUREMENT

ERROR: 0% CORRECTED ACCURACY: ± 1%

**COMMENT:** PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BOB/DAVID

copies: RICHARD HARRISON

**PERSON SEEN: JEREMY** 



## Invoice

 Date	Invoice #
3/5/2014	7612

PHONE #:	717-768-0800	
FAX#:	717-768-0802	
Bill To		
307 NORT	ON SEWER AUTHORITY TH WASHINGTON AVENUE ON, PA 18503	
ATTENTI	ON: ACCOUNTS PAYABLE	

WEB SITE:	WWW.WGMALDEN.COM				
E-MAIL:	OFFICE@WGMALDEN.COM				
Ship To					
	9				
	w.				

	P.O. Number	Terms	Rep	Service Date
22	244	Net 30	DS/BH	3/4/2014

Qty	Item Code	Description	U/M	Price Each	Amount
Qty.	LABOR-A	ANNUAL SERVICE TO CALIBRATE WASTE METERING EQUIPMENT AT THE COMBINE SEWER OVERFLOW, FLUME #1, FLUME #2, #3, FLUME #4, RAS #1, RAS #2, AND RAS #4,	WATER D FLUME	1,500.00	1,500.00
	Thank	you for your business. mv	Total:	ts/Credits:	\$1,500.00 \$0.00
F	PAYMENTS RECEIVED 45 DA A 1.5% LATE FEE PER FACH	YS AFTER INVOICE DATE WILL BE ASSESED MONTH LATE AND ALL COLLECTION COSTS	Balance		\$1,500.00

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AA

LOCATION: COMBINED SEWER OVERFLOW

SERIAL#: D73

**MANUFACTURER: AMERICAN SIGMA** 

**RECORDER:** N/A **TRANSMITTER:** 950

PRIMARY: AREA X VELOCITY MAXIMUM CAPACITY: 78" PIPE SERVICE CONTRACT: ANNUAL

### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

LEVEL AND VELOCITY CHECK

ERROR: -17" CORRECTED ACCURACY: ± .125"

**COMMENTS:** PERFORMED ANNUAL CALIBRATION. CLEANED SENSORS. PERFORMED CONFINED SPACE ENTRY. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

copies:

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### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AB LOCATION: FLUME # 3 SERIAL #: H20051150E6 MANUFACTURER: E&H RECORDER: N/A

TRANSMITTER: FMU 90 - SENSOR #2

PRIMARY:

MAXIMUM CAPACITY: 25 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% COR

CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0%

**CORRECTED ACCURACY: ± 1%** 

COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. FOUND MAX CAPACITY SET TO 15.332 MGD. CORRECTED. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

**PERSON SEEN: PETE** 

copies:

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### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 N. WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AC LOCATION: FLUME # 2 SERIAL #: H20051150E6

MANUFACTURER: E&H TEMPORARY

RECORDER: N/A

TRANSMITTER: FMU 90 - SENSOR #1

PRIMARY: WEIR 5 FT.

MAXIMUM CAPACITY: 25 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0% CORRECTED ACCURACY: ± 1%

COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB

**PERSON SEEN: PETE** 

copies:

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### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 N. WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AD LOCATION: FLUME # 4

SERIAL #:

MANUFACTURER: E& H TEMPORARY

RECORDER: N/A

TRANSMITTER: FMU 90

**PRIMARY: 59.5"** 

MAXIMUM CAPACITY: 25 MGD SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0 & 25, 50 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0% CORRECTED ACCURACY: ± 1%

COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. TESTED OUTPUT TO SCADA. FOUND MAX CAPACITY SET TO 15.332 MGD. CORRECTED. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB copies:

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### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE **SCRANTON SEWER AUTHORITY** 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AE LOCATION: FLUME # 1 SERIAL #: H6003D150E8

MANUFACTURER: E&H TEMPORARY

RECORDER: N/A

TRANSMITTER: FMU 90 PRIMARY: WEIR 5FT.

**MAXIMUM CAPACITY: 25 MGD** SERVICE CONTRACT: ANNUAL

### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: 0, 25, 50, 75 & 100%

ERROR: 0% CORRECTED ACCURACY: ± 1%

\*TRANSMITTER CALIBRATION\*

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: -3.7%

CORRECTED ACCURACY: ± 1%

COMMENTS: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. FOUND METER SCALED TO 23,366 MGD. CORRECTED. TESTED OUTPUT TO SCADA. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DAVID/BOB copies:

**PERSON SEEN: JEREMY/MATT** 

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AI LOCATION: RAS #6 SERIAL #: H4002F16000 MANUFACTURER: E&H RECORDER: 6004

**TRANSMITTER: PROMAG 50** 

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: N/A ERROR: \* CORRECTED ACCURACY: N/A

\*TRANSMITTER CALIBRATION\*

PORTABLE TRANSIT TIME

**ERROR: \* CORRECTED ACCURACY: ±1%** 

COMMENTS: \*NOT DONE AT THIS TIME. METER OFFLINE.

SERVICE REPRESENTATIVE: BOB/DAVID

**PERSON SEEN: PETE** 

copies:

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-6800 FAX: (717) 768-6802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AJ LOCATION: RAS #5 SERIAL #: H4002E16000 MANUFACTURER: E&H RECORDER: 6004

**TRANSMITTER: PROMAG 50** 

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: N/A ERROR: \* CORRECTED ACCURACY: N/A

\*TRANSMITTER CALIBRATION\*
PORTABLE TRANSIT TIME

ERROR: \* CORRECTED ACCURACY: ± 1%

COMMENTS: \*NOT DONE AT THIS TIME. METER OFFLINE.

SERVICE REPRESENTATIVE: BOB/DAVID copies:

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-6800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AM LOCATION: RAS #1 SERIAL #: H504FC16000 MANUFACTURER: E&H RECORDER: N/A

TRANSMITTER: PROMAG 50

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE ERROR: 0% CORRECTED ACCURACY: ±1%

\*TRANSMITTER CALIBRATION\*

PORTABLE TRANSIT TIME

ERROR: 0% CORRECTED ACCURACY: ±3%

COMMENTS: PERFORMED CALIBRATION. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BOB/DAVID

copies:

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AN LOCATION: RAS #2 SERIAL #: H5055916000 MANUFACTURER: E&H RECORDER: N/A

TRANSMITTER: PROMAG 50

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A

ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE

ERROR: 0% CORRECTED ACCURACY: ±1%

\*TRANSMITTER CALIBRATION\*

PORTABLE TRANSIT TIME

ERROR: 0% CORRECTED ACCURACY: ±3%

COMMENTS: PERFORMED CALIBRATION. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BOB/DAVID

copies:

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### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, AP 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AO LOCATION: RAS #3

SERIAL#:

MANUFACTURER: E&H

RECORDER: N/A

**TRANSMITTER: PROMAG 50** 

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

#### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A

ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE

ERROR: \* CORRECTED ACCURACY: ±1%

\*TRANSMITTER CALIBRATION\*

**PORTABLE TRANSIT TIME** 

ERROR: \* CORRECTED ACCURACY: ±3%

COMMENTS: \*NOT DONE AT THIS TIME. METER OFFLINE.

SERVICE REPRESENTATIVE: BOB/DAVID

**PERSON SEEN: PETE** 

copies:

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

### \*\*\*SERVICE REPORT\*\*\*

JAY NARDONE SCRANTON SEWER AUTHORITY 307 NORTH WASHINGTON AVENUE SCRANTON, PA 18503

SERVICE DATE: 3/4/2014 METER#: C8017 AP LOCATION: RAS #4 SERIAL #: H5055A16000 MANUFACTURER: E&H

RECORDER: N/A

**TRANSMITTER: PROMAG 50** 

PRIMARY: 14" MAG

MAXIMUM CAPACITY: 3600 GPM SERVICE CONTRACT: ANNUAL

### \*WORK PERFORMED\*

CLEANED EQUIPMENT: X PRIMARY: X

\*RECORDER CALIBRATION\* CHECKED AT: N/A ERROR: N/A CORRECTED ACCURACY: N/A

\*TOTALIZER CALIBRATION\* CHECKED AT: OPERATING RATE

ERROR: 0%

CORRECTED ACCURACY: ±1%

\*TRANSMITTER CALIBRATION\*

PORTABLE TRANSIT TIME

ERROR: 0%

**CORRECTED ACCURACY: ±3%** 

COMMENTS: PERFORMED CALIBRATION. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: BOB/DAVID

**PERSON SEEN: PETE** 

copies:



## LRM, Inc

### Instrumentation & Disinfection Systems

Calibration Date 3/18/2015

	City of Scra	nton		Scranton WWT	P	
ser			Job Site			
			1			
	Attn Richa	rd Harison				
	Instrument Model	No.	Instrument S/N			
	17CA3101A0		170a30000000	00343		
- 3	Instrument Loop		Input Type			
	4-20 mA		Chlorine Ser	nsor		
	Primary Signal Pr	oducer	Calibrated Rang	ge		
	Electrochemic	al Sensor	10 PPM			
	Instrument Settir	ıgs				
	F	ound	Cha	anged To		
	Zero	Span	Zero	Span		

### **Calibration Data**

N/A

N/A

Input %	Input Value	Output Value	% Error After Calibration
0 %	N/A	mADC	100.00%
50 %	N/A	mADC	100.00%
100 %	N/A	mADC	100.00%

**Equipment Used** 

0 PPM CL2

Gas 10 PPM

10 PPM CL2

Calibration Calibration Gas Regulator

Adjustments / Actions Taken :

Reset Span

#### Comments:

Conducted zero and span calibration using calibration gas cylinders. Found all four sensors reading correctly at both 0 and 10 PPM (within 0.2 PPM of target). Also verified all sensors to respond quickly to target gas exposure.

Tested alarm (relay) activation and verified proper operation.

Service Representative

Andrew Morgan

Date 3/19/2015

215 N. Main Street - Souderton, Pa 18964 - 215-721-4840 - Fax 215-721-4923



## LRM, Inc

### Instrumentation & Disinfection Systems

Calibration Date 3/18/2015

	City of Scra	inton	ſ	Scranton WWT	'P	
Jser			Job Site			
			L			
	Attn Rich	ard Harison				•
	Instrument Mode	l No.	Instrument S/N			
	17CA3101A0		170a30000000	00344		
	Instrument Loop		Input Type			
	4-20 mA		Sulfur Dioxi	ide Sensor		
	Primary Signal P	roducer	Calibrated Rang	ge		
	Electrochemic	cal Sensor	10 PPM			
	Instrument Settle	ngs				
	F	ound	Cha	anged To		
	Zero	Span	Zero	Span	ĺ	

### **Calibration Data**

N/A

N/A

Input %	Input Value	Output Value	% Error After Calibration	
0 %	N/A	mADC	100.00%	
50 %	N/A	mADC	100.00%	
100 %	N/A	mADC	100.00%	

**Equipment Used** 

0 PPM SO2

Gas 10 PPM

10 PPM SO2

Calibration Calibration Gas Regulator

Adjustments / Actions Taken :

Reset Span

#### Comments:

Conducted zero and span calibration using calibration gas cylinders. Found one sensor module to be faulty and replaced it from customer's stock. Both sensors were then tested and found to be reading correctly at both 0 and 10 PPM (within 0.2 PPM of target). Also verified all sensors to respond quickly to target gas exposure.

Tested alarm (relay) activation and verified proper operation.

Service Representative

Andrew Morgan

Date 3/19/2015

215 N. Main Street - Souderton, Pa 18964 - 215-721-4840 - Fax 215-721-4923

Appendix 2

Dickson City Chapter 94 Information Worksheet



# Scranton Sewer Authority

### SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET

	`	CHAPTER 94 INFORMATI	ON WORKSHEET	
	Municipality	Siniawa (Dickson	City Borough)	
	Mailing Address	LACKAWANNA RIV	er Basin Sever	Authority
	Contact Person	P.O. Box 280, O.	- SPHANT, PA 18	747
	Telephone No	MICHAEL MA		
	Telephone Number	570-489-75	63	
The to	1 - LOADING INI	*A	VSERS: 42 COMM Y RESID VGQ = 225 GAD/E	ENTIAL DU
EDUs i	s projected to increa	os connected at the end of MGD. Dur	ing the next five (5) year	s, the number of
	Additional			
2014	# of EDUs	Total # of EDUs	Total MGD	_
2014 2015		Total # of EDUs //6	0.0262	- ,
	# of EDUs	116	0.0262	-,
2015	# of EDUs	132	0.0262	- ,

The increase in the number of connections was derived in the following manner:

HILTON HOME & HOTER TO BE CONSTRUCTED ON THE SITE OF THE FORMER FRESNOS RESTAURANT. ESTIMATED INCREASE OF 3,600 GPD VS. FORMER FRESNOS USAGE.

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

bs BOD <sub>5</sub> /day collectusing a factor of persons ( Ph/EDU x 2.24	ted each day is estimated to be YY lbs/day  O.17 lbs/day per capita X (times)  Or as follows:  PERSUNS/EDU X 0.17 #300/cap = 44 #302
	100 x0.17 1300/cap = 44 Bur
plan and schedule ditions within the n	for reducing present or anticipated hydraulic or nunicipal sewer system.
By Year	Resulting Reduction in Overload (mgd or lbs/day BOD)
* NA *	
t, your detailed pla tion from your sew	n of action and schedule to locate and remove
	DUCE OVERLOA  plan and schedule ditions within the n  By Year

+ N/A +

### SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

## ITEM 3 - SEWER EXTENSIONS

During 2014 the following sewer extensions were constructed.

Nam Exten	4 · 1	W.Q.M. Permit No.	Popule Pe	ation (EDUs) exmitted	Po	pulation BDUs ected during 2014
			* NIA	<b>y</b>		
Name of	W.Q.M.	Population	n (EDUs)	for future constru Year	ction:	
Extension	Permit No.	Perm	itted	Construction to	Start	Year to Be Completed
		FNIA	*			

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. The following sewer extensions were proposed but not approved during 2014:

_	Name of Extension	Population (EDUs) Proposed	Year that Construction Proposed to Start
_		* N/A *	
_	;		
d.	In addition to the above info of the entire collection sys- extensions should be submit system repairs as described in	ormation relative to each extension, an up stem showing all 2014 extensions and ted. Also indicate the location of any man Item 4 below on the map.	dated complete map all proposed sewer jor or extraordinary

## ITEM 4 - SYSTEM MAINTENANCE

Briefly discuss the program utilized for sewer system monitoring, maintenance, repair, and rehabilitation. Provide a description of any major or extraordinary repairs.

SEWER COLLECTION LINES IN THE SINIAWA SEWER DISTRICT ARE OPERATED AND MAINTAINED RY DICKSON CITY BOROUGH.

### SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

## ITEM 5 - SYSTEM CONDITION

Briefly discuss the condition of the sewer system and indicate any portions of the system where the conveyance capacity is being exceeded or will be exceeded in the next 5 years. Rehabilitation or cleaning work which is underway, planned, or required, should also be discussed.

\* System IS BELIEVED TO BE IN GENERALLY GOOD CONDITION.

## ITEM 6 - PUMPING STATION INFORMATION

a. Pumping Station Capacities and Flows

Name of Station	No. of Pumps	Capacity of Bach Pump	Present Average Daily Flow	Present Maximum Daily Flow	Projected 2-Year Maximum Daily Flow
			N/4 %		
b. Briefly	explain how	the average daily i	low and maximum	a daily flow were d	etermined,

\* W/4 \*

## SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. Briefly discuss the condition of each pumping station listed above:

\* NIA \*

d. Attach a copy of the flow meter calibration report (if flow meters are provided).

\* N/A \*

# ITEM 7 - INDUSTRIAL WASTE DISCHARGES

a. Discuss any known or suspected problems in the sewer system caused by industrial discharges.

NONE - NO S. I. U. S

# ITEM 8 - INSTRUMENT CALIBRATION RECORDS

a. Attach copies of calibration records for flow metering instrumentation. In lieu of specific signed calibration certificates, copies of paid invoices for instrument calibration and of canceled checks may be substituted.

\* N/A \*

# LRBSA P.O. BOX 280 OLYPHANT, PA 18447-0280

## LETTER OF TRANSMITTAL

PH. (570) 489-7563 FAX (570) 489-0260 SCRAWTON SAWER PUTHERLY ScANTON PA 18503 T Attached WE ARE SENDING YOU □ Under separate cover via \_ \_the following items: ☐ Shop drawings ☐ Prints ☐ Plans □ Samples Specifications □ Copy of letter ☐ Change order Ο. COPIES DATE NO. DESCRIPTION CHAPTER 94 WORKSHEET THESE ARE TRANSMITTED as checked below: □ For approval □ Approved as submitted ☐ Resubmit \_\_\_\_\_ copies for approval ☐ For your use □ Approved as noted ☐ Submit \_\_\_\_\_ copies for distribution ☐ As requested ☐ Returned for corrections ☐ Return \_\_\_\_\_corrected prints ☐ For review and comment ☐ FOR BIDS DUE \_ PRINTS RETURNED AFTER LOAN TO US REMARKS. JPY TO\_ fishel fathetest

Appendix 3

Montage Sewer District Chapter 94 Information Worksheet



# SCIANTON SOWER Authority 12-314 Adems Avenue, Scranton, PA 19803 Felt 870-368-8359

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET

Municipality	Montage Sewer District
Mailing Address	LACKAWANNA RIVER BASIN SEWER ANTHORITY
	P.O. BOX 280 DLYPHANT, PA 18447
Contact Person	MICHAEL MATECHAE 1.E.
Telephone Number	570-409-7563
ITEM 1 - LOADING INF	31 COMMERCIAL
The total number of EDI contributed 0. 138 EDUs is projected to increa	Us connected at the end of 2014 was, they MGD. During the next five (5) years, the number of se as follows:
4 1 100	

2014	Additional# of EDUs	Total # of EDUs	Total MGD
2014	۷	6/5	0./38
2015	2	617	0.17 7 8
2016	2		0./39
2017	2	619	0./39
	_	621	
2018	2	122	6.140
		423	0.140

The increase in the number of connections was derived in the following manner:

BUILDING PERMITS + HISTORICAL TRENDS

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

he estimated number of pe	680/EDU x 2.39	each day is estimated to be 249 lbs/day  O. 17 lbs/day per capita X (times)  or as follows:  PERSON / EDU X O. 17 **ROD/CAP  = 249 # Bod / D44
TEM 2 - PLAN TO RED	UCE OVERLOAD	
The following is a p organic overload cond	lan and schedule for litions within the mun	reducing present or anticipated hydraulic icipal sewer system.
Task to be Completed	By Year	Resulting Reduction in Overload (mgd or lbs/day BOD)
	* N/A *	
	* N/A *	

+ N/4 \*

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

## ITEM 3 - SEWER EXTENSIONS

During 2014 the following sewer extensions were constructed.

Name Extens	_	W.Q.M. Permit No.	Populat Per	on (EDUs) mitted	Popu Connec	ulation RDUs ted during 2014
		*	NA	4		
b. The fe	ollowing sewer W.Q.M. Permit No.	extensions wer  Population  Permit	(EDUs)	for future constru Year Construction to		Year to Be Completed
		* N/A	*			
						_

### SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. The following sewer extensions were proposed but not approved during 2014:

Name of Extension	Population (EDUs) Proposed	Year that Construction Proposed to Start
	* ~/4 *	

d. In addition to the above information relative to each extension, an updated complete map of the entire collection system showing all 2014 extensions and all proposed sewer extensions should be submitted. Also indicate the location of any major or extraordinary system repairs as described in Item 4 below on the map.

## ITEM 4 - SYSTEM MAINTENANCE

Briefly discuss the program utilized for sewer system monitoring, maintenance, repair, and rehabilitation. Provide a description of any major or extraordinary repairs.

LRASA AND MOOSIC BORDUGH PERFORM PLOUTINE MAINTENANCE ON THEIR RESPECTIVE LINES AS NEWDED.

REPLACED PUMP #2 AT MONTAGE PUMP STATION
IN 2014.

## SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

### **ITEM 5 - SYSTEM CONDITION**

Briefly discuss the condition of the sewer system and indicate any portions of the system where the conveyance capacity is being exceeded or will be exceeded in the next 5 years. Rehabilitation or cleaning work which is underway, planned, or required, should also be discussed.

THE LRASA/COUNTY SEWERAGE SYSTEM IS BELIEVED TO BE IN GENERALLY GOOD CONDITION, THERE ARE NO KNOWN AREAS WHERE THE CONVEYANCE SYSTEM IS CURRENTLY OR PROJECTED TO BE OVERLOADED.

### ITEM 6 - PUMPING STATION INFORMATION

a. Pumping Station Capacities and Flows

Name of Station	No. of Pumps	Capacity of Each Pump	Present Average Daily Flow	Present Maximum Daily Flow	Projected 2-Year Maximum Daily Flow

b. Briefly explain how the average daily flow and maximum daily flow were determined.

FLOW METERL DATA

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. Briefly discuss the condition of each pumping station listed above:

GOOD CONDITION. CONSTRUCTED 2004.

d. Attach a copy of the flow meter calibration report (if flow meters are provided).

ATTACHED

## ITEM 7 - INDUSTRIAL WASTE DISCHARGES

a. Discuss any known or suspected problems in the sewer system caused by industrial discharges.

NONE - NO S.I. U.S

## ITEM 8 - INSTRUMENT CALIBRATION RECORDS

a. Attach copies of calibration records for flow metering instrumentation. In lieu of specific signed calibration certificates, copies of paid invoices for instrument calibration and of canceled checks may be substituted.

ATTACHED

SR Number	1-8272589425			Service Loan	lina				_
SA Summary	Planned Hours	Customer	Lackswansa River Bee		1100			_	
Activity Dwngr	Bogdan, Mark	Address	140 Rear 145 Blvd		_			-	
	Hanaywell Contact	Address			_			_	
SR Owner	Lettari Young	ORy	Throop		Regio	o 710	IPA	1051	
Telephose	(502) 436-1633	10.09		Customer Cor		II AIF	ILV	11031	
eMell Address	Infantyoung @honeywell.com	Hame		Cartoties Col	-		les -		
FBL	Gerafya Gernel		Michael Mercanti		-	Address	irben 0	والعلوه	
		Telephone	(570) 469-7563			ale Phones	4		
Gustomer PO#	nt Information			Jervice inform					
Credit Card		Local Refit	US1109-484		Exp D	ste	1/31/20	15	
NAME CALO	160	Тура	Service Agreement						
Activity		SAP SOJ	43054321						
locate	in were so for ca	subjec librat	ted to	3	P	sên	7	Ze	4
when	are mo								
	are we	Yest Equipme			Last Pri			March	
Teal		Yest Equipme	nt Used		Leaf Cal			Next	
	Equipment Description	Yezt Equipme	nt Used Gerial Number		DD	YYYY	MM P2	DD.	YYYY
HONEY	Equipment Description WEW 2020	Yezt Equipme	nt Used		DD			DD.	
HONEY	Equipment Description	Yest Equipme	nt Used Serial Number 30902	MM //	06	YYYY 2014	02	06	2015
HONEY	Equipment Description WEW 2020	Yest Equipme	nt Used Gerial Number	MM //	06	YYYY	02	06	2015
HONEY	Equipment Description WEW 2020	Yest Equipme	nt Used Serial Number 30902	MM //	06	YYYY 2014	02	06	2015
HONEY	Equipment Description WEW 2020	Yest Equipme	nt Used Serial Number 30902	MM //	06	YYYY 2014	02	06	2015
HONEY	Equipment Description WEW 2020	Yest Equipme	nt Used Serial Number 7 3 0 9 0 2 4 5 0 1 3 7	MM //	06	YYYY 2014	02	06	7777 2015
HONEY FLUXE	Equipment Description WEW 2020	Yest Equipme	nt Used Serial Number 7 3 0 9 0 2 4 5 0 1 3 7	) 1 08	06	YYYY 2014	02	06	7777 2015
HONEY	Equipment Description WEW 2020	Yest Equipme	nt Used Serial Number 7 3 0 9 0 2 4 5 0 1 3 7	MM //	06	YYYY 2014	02	06	2015

### NEW MAILING ADDRESS: LRBSA P.O. BOX 280 OLYPHANT, PA 18447-0280

PH. (570) 489-7563 FAX (570) 489-0260  TO SCRAWTON SEWER AUTHORITY  312-314 Aparts Ave.  SCRAWTON, JA 18503  WE ARE SENDING YOU Attached Under separate cover via					2014 CHAPTE	
	☐ Copy of lett		☐ Change order		- Samples	
COPIES	DATE	NO.	CHAPTUR 94 W	burshour -	DESCRIPTION	
HESE ARE	TRANSMITTED  For approv  For your us  As request	ral Se	☐ Approved	d as submitted d as noted for corrections	□ Submit	copies for approval copies for distribution corrected prints
EMARKS_	☐ For review ☐ FOR BIDS [		ent []		☐ PRINTS RETURNE	D AFTER LOAN TO US
PY TO						

LETTER OF TRANSMITTAL

SIGNED: Juliu Jakoth

Appendix 4

Taylor Borough Chapter 94 Information Worksheet



SCIENTON SEWER AUTHORITY
312 Adanis Avonuo, Scranton, PA 18503

1 motte: 010-148-6130

The state of the s

January 9, 2015

Tom McDermott LLVSA P.O. Box 67 Duryea, PA 18642

RE: Scranton Sewer Authority (SSA)
Municipal Wasteload Management
Annual Report, Calendar Year 2014

Dear Mr. Tom McDermott,

The SSA is sending this information package to the LLVSA for assistance. Your help is greatly appreciated.

Taylor Borough generates wastewater and discharges it to the Scranton Sewer Authority's Wastewater Treatment Plant (WWTP). The authority, as permittee for the WWTP, is required to prepare and submit a Municipal Wasteload Management Report in compliance with Title 25, Chapter 94, of the Rules and Regulations of the Pennsylvania Department of Environmental Protection (PADEP). This annual report for the calendar year 2014 must be filed in the Regional Office of PADEP by March 31, 2015.

To assist us in Preparing the Chapter 94 Report for 2014, please provide the information described in "Requested Information Instructions." Also enclosed is a worksheet to assist in organizing the requested information.

Please submit this information to the attention of Tara Roche at the above address no later than February 4, 2015. If you have any questions concerning the above, please do not hesitate to contact me at (570) 348-5338.

Eugene P. Barrett

Sinecrel

Executive Director, Scranton Sewer Authority

CC: Christine Wesolowski, SSA WWTP Manager Tara Roche, SSA MIPP Compliance



# Scranton Sewer Authority Scranton Sewer Authority Fat \$79-316-5359 F

### SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET

Municipality	Taylor Borough
Mailing Address	122 WEST UNION
8	TAYLOR PENNIYLVANIA, 18517
Contact Person	DAN ZELSNIAK
Telophone Number	570-562-1400

## ITEM 1 - LOADING INFORMATION

The total number of EDUs connected at the end of 2014 was \_\_\_\_\_\_, they contributed \_\_\_\_\_\_ O.56 \_\_\_\_\_ MGD. During the next five (5) years, the number of EDUs is projected to increase as follows:

2014	Additional # of EDUs	Total # of EDUs 352	Total MGD
2015	-0-	352	0.056
2016	-0-	352	0.056
2017	~0-	352	0.056
2018	-0-	352	0,056

The increase in the number of connections was derived in the following manner:

According to Taylor Borover, This AREA IS Fully develop the NO Additional Expansion Expected over the NEXT (5) FIVE =ARS.

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

The organic loading in 1bs B which was calculated by usin the estimated number of pers	g a factor of Oi	ch day is estimated to be 210 lbs/day 17 lbs/day per capita X (times) 17 lbs/gay per capita X (times) 17 LBS BOD PERSON = 210 LB BOD	s DA
a. The following is a pl	an and schedule for	reducing present or anticipated hydraulic cipal sewer system.	or
Task to be Completed	By Year	Resulting Reduction in Overload (mgd or lbs/day BOD)	
N/A	A(/\_	N/A	_
	<u></u>		_

b. Attach, as a supplement, your detailed plan of action and schedule to locate and remove excessive inflow/infiltration from your sewer system.

NONE.

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

## **ITEM 3 - SEWER EXTENSIONS**

During 2014 the following sewer extensions were constructed.

Name of Extension	W.Q.M. Permit No.	Population (EDUs) Permitted	Population EDUs Connected during 2014
NONE	NA	N/A	N/A

b. The following sewer extensions were approved for future construction:

Name of Extension	W.Q.M. Permit No.	Population (EDUs) Permitted	Year Construction to Start	Year to Be Completed
None	NA	NA	NA	_ N/A_
-	_			
		1		

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

## CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. The following sewer extensions were proposed but not approved during 2014:

Name of Extension	Population (EDUs) Proposed	Year that Construction Proposed to Start
None	N/A	_ N/A
	-	

d. In addition to the above information relative to each extension, an updated complete map of the entire collection system showing all 2014 extensions and all proposed sewer extensions should be submitted. Also indicate the location of any major or extraordinary system repairs as described in Item 4 below on the map.

## ITEM 4 - SYSTEM MAINTENANCE

Briefly discuss the program utilized for sewer system monitoring, maintenance, repair, and rehabilitation. Provide a description of any major or extraordinary repairs.

CSO 025 (6th Street) Is maritared and maintained monthly and after Every half-INCH RAINFALL AS PER the LIVSA Nine Minimum Control Plan. The LLVSA Ntspected Semi-ANNUALLY, ALL MAINTENANCE IS locumented.

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

# ITEM 5 - SYSTEM CONDITION

Briefly discuss the condition of the sewer system and indicate any portions of the system where the conveyance capacity is being exceeded or will be exceeded in the next 5 years. Rehabilitation or cleaning work which is underway, planned, or required, should also be discussed.

System is in good condition, Maintenance included Jet-VAC appearmatsly twice per YEAR, There is no known inflow or infiltration in the AREA.

# ITEM 6 - PUMPING STATION INFORMATION

a. Pumping Station Capacities and Flows

Name of Station	No. of Pumps	Capacity of Each Pump	Present Average Daily Flow	Present Maximum Daily Flow	Projected 2-Year Maximum Daily Flow
b. Briefly e	explain how t	he average daily f	low and may	n daily flow were d	
The	ERS AR	E NO PUL	P Statie	In daily flow were do $\sim$ S $\sim$ Ha	etermined.

# SCRANTON SEWER AUTHORITY WASTEWATER TREATMENT FACILITIES

# CHAPTER 94 INFORMATION WORKSHEET (CONTINUED)

c. Briefly discuss the condition of each pumping station listed above:

Norse.

d. Attach a copy of the flow meter calibration report (if flow meters are provided).

N/A

## ITEM 7 - INDUSTRIAL WASTE DISCHARGES

a. Discuss any known or suspected problems in the sewer system caused by industrial discharges.

No industrial discharges in this Esquice AREA.

# ITEM 8 - INSTRUMENT CALIBRATION RECORDS

a. Attach copies of calibration records for flow metering instrumentation. In lieu of specific signed calibration certificates, copies of paid invoices for instrument calibration and of canceled checks may be substituted.

MA

Appendix 5

**Collection System Extensions** 

The Scranton Sewer Authority has no collection system extensions to report in the Scranton / Dunmore area for the year of 2014

Appendix 6

**Pumping Station Drawdowns** 

# **Dorothy Street Pump Station**

	Wet Well	Length	Width		Volume	
pump #1		10 ft		7 ft	523.6 gal/ft	
	Drawdown		Drawdow	n Time	Refill Time	Field Pump Test
	End	0 in Mi	Inutes	16	Minutes 145	•
	Start 9	.6 ln				
	Total Distance 0	.8 ft				
	Gallons Pumped 418.8	88 gallons		26 gpm	3 gpm	29 gpm

Field	d Pump Test	
29 gpm	3 1 ( = 1) d	0.042 MGD

Total Annual Pump Runtime (Hrs)

3541

Avera	ge Daily Flow	Engishes/Alefale
12 gpm	=	0.017 MGD

Average Daily Pump Runtime (Hrs.)

9.7

# **Froude Street Pump Station**

	Wet Well	Length		Width	Volume		
pump #1			ft	5 ft diameter	19.625 gal/ft		
	Draw	down	D	rawdown Time	Refill	Time	Field Pump Test
	End	0 in	Minutes	2.00	Minutes	56	10 000000 00 51 00000 0000 <b>1</b> 0 0000000000000000000000
	Start	12 in				5050	
	Total Distance	2.2 ft					
	Gallons Pumped	43.175 gallons		22 gpm		0.8 gpm	22 gpm

Fie	ld Pump Tes	
22 gpm		0.032 MGD

Total Annual Pump Runtime (Hrs)

4496

Aver	age Daily Flo	W
11 gpm		0.017 MGD

Average Daily Pump Runtime (Hrs.)

12.31781

# **Keyser Avenue Pump Station**

	Wet Well	Length		Width	Volume	
pump	#1	1	5 ft	5 ft	561 gal/ft	
	Draw	down	Di	awdown Time	Refill Time	Field Pump Test
	End	O in	Minutes	0.83	Minutes	
	Start	12 ln	1			
1	Total Distance	1.18				
	Gallons Pumped	561 gallons		· 466 gpm	0 gpm	486 gpm

Fi	eld Pump Tes	Market History
466 gpm		0.671 MGD

Total Annual Pump Runtime (Hrs)

3644

Aven	age Daily Flo	W
194 gpm	-	0.279 MGD

Average Daily Pump Runtime (Hrs.) 9.983562

# **Middle Street Pump Station**

	Wet Well	Length		Width	Volume	
pump #1		19.5	ft	6 ft	875.16 gal/ft	
	Drawdown		Dr	awdown Time	Refill Time	Field Pump Test
	End	0 in	Minutes	1.83	Minutes	, , , , , , , , , , , , , , , , , , ,
	Start	l2 in		-		
	Total Distance	1 ft				
	Gallons Pumped 875.	16 gallons		478 gpm	0 gpm	478 gpm

Fie	eld Pump Tes	
478 gpm		0.689 MGD

Total Annual Pump Runtime (Hrs)

1887

Aver	age Daily Flo	W
103 gpm		0.148 MGD

Average Daily Pump Runtime (Hrs.)

5.169863

# **Myrtle Street Pump Station**

	Wet Well	Length	Width	Volume	
pump #1		17 ft	5 ft	635.8 gal/ft	
	Drawdown		Drawdown Time	Refill Time	Fleid Pump Test
	End 0	in Minute	es 0.92	Minutes	-
	Start 12	in			
	Total Distance 1	ft			
	Gallons Pumped 635.8	gallons	691.09 gpm	0 gpm	691 gpm

F	ield Pump Test	Liberary and the second
691 gpm		0.995 MGD

Total Annual Pump Runtime (Hrs)

2562

Aven	age Daily Flo	W
202 gpm		0.291 MGD

Average Daily Pump Runtime (Hrs.) 7.019178

# **Parrot Street Pump Station**

	Wet Well	Length		Width	Volume	
pump #1		13.5	ft	5 ft	504.9 gal/ft	
	Drawde	own	Dr	awdown Time	Refill Time	Field Pump Test
	End	0 in	Minutes	1	Minutes 5.37	•
	Start	12 in	1			
	Total Distance	1 ft				
	Gallons Pumped	504.9 gallons		505 gpm	94 gpm	599 gpm

Fi	eld Pump Tes	
599 gpm		0.862 MGD

Total Annual Pump Runtime (Hrs)

366

Aver	age Daily Flo	W
25 gpm	=	0.036 MGD

Average Daily Pump Runtime (Hrs.)

1.00274

# **Shawnee Ave Pump Station**

	Wet Well	Length	Width	Volume	
pump #1		11 ft	5 ft	411.4 gal/ft	
	Drawdown		Drawdown Time	Refill Time	Field Pump Test
	End 0	in Minutes	4.083	Minutes	
	Start 12	in			
	Total Distance 1	ft			
	Gallons Pumped 411.4	gallons	101 gpm	0 gpm	101 gpm

Fie	eld Pump Tes	
101 gpm		0.145 MGD

Total Annual Pump Runtime (Hrs)

1007

Aver	age Daily Flo	W
12 gpm	=	0.017 MGD

Average Daily Pump Runtime (Hrs.) 2.758904





# 312 Adams Avenue, Scranton, PA 18503

Phone: 670-348-5330

# **Industrial Users Summary for MIPP Report**

(Fourth Quarter 2013, First Quarter 2014, Second Quarter 2014, Third Quarter 2014 and Fourth Quarter 2014) **Annual 2014 Report** 

## Apex Waste Management

4th Quarter 2013- Sampled on time (10/01/2013-10/03/2013), reported on time (11/20/2013) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (10/15/2014) with no violations.

1st Quarter 2014- Sampled on time (01/07/2014-01/09/2014), reported on time (03/19/2014) and report was complete. This industry reported a total flow of 287,750 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014. A calculated surcharge for elevated ammonia and BOD was issued.

2<sup>nd</sup> Ouarter 2014- Sampled on time (04/01/2014-04/03/2014), reported on time (05/16/2014) and report was complete. This industry reported a total flow of 154,073 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated ammonia was issued.

3rd Quarter 2014- Sampled on time (07/08/2014-07/10/2014), reported on time (09/02/2014) and report was complete. This industry reported a total flow of 3,850 gallons for the third quarter. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014. A calculated surcharge for elevated ammonia was issued.

4th Quarter 2014- Sampled on time (10/07/2014-10/09/2014), reported on time (11/20/2014) and report was complete. This industry reported a total flow of 10,406 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014. A calculated surcharge for ammonia was issued.

### **Aramark**

4th Quarter 2013- Sampled on time (10/28/2013-10/30/2013), reported on time (12/09/2013) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (06/03/2014). There were violations for pH on 06/03/2014. This industry reported a pH of 10.16, 9.69, 9.53, 9.89, and 9.78 su and pH limit is 6.0-9.0. A Notice of Violation was issued for pH along with a requirement to submit to the authority a completed compliance plan. A calculated surcharge for elevated BOD was issued.

1st Quarter 2014- Sampled on time (02/17/2014-02/19/2014) and reported on time (04/16/2014). This report was incomplete. Notices of Violations were issued with attached monetary fines for failure to submit flows, pH violation, and failure to resample for pH. Aramark had pH violations on Day 1 (02/17/2014), Day 2 (02/18/2014), and Day 3 (2/19/14). The pH readings for 02/17/2014 was 9.84 su, on 02/18/14 was 9.34 su, and on 02/19/14 was 9.23 su. No resampling was performed. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.

2<sup>nd</sup> Quarter 2014- Sampled on time (06/2/2014-06/4/2014) and reported on time (07/23/2014). This report was complete. This industry reported a total flow of 762,137 gallons for the second quarter. Aramark had pH violations on Day 1 (06/2/2014) and Day 2 (06/3/2014). The pH reading for 06/2/2014 was 10.16 su and 10.12 su for 06/3/2014. Resampling was performed on 06/9/2014, 06/10/2014, 06/11/2014, 06/16/2014, 06/17/2014, 06/23/2014, 06/24/2014, and 06/25/2014 with pH results of 9.72 su, 9.78 su, 9.80 su, 6.08 su, 10.12 su, 5.56 su, 9.25 su, and 9.89 su. A Notice of Violation will be issued for pH. This industry is in SNC for the period of January 1, 2014-June 30, 2014.

The Scranton Sewer Authority has met with Aramark numerous times throughout this quarter. Initially the Authority proposed to issue an administrative order to implement treatment to meet compliance within 180 days, however, as a result of these meetings and Aramark's internal work to identify the source of the pH non-compliance it was decided to install a pH adjusting system. This system is in motion at Aramark and should be onsite by the next reporting period. At this time because of the above efforts the Authority believes compliance with the pH parameter will be met in the near future. If implementation of this system does not follow this discussed schedule between the SSA and Aramark, the Authority will immediately issue an administrative order with monetary fine to Aramark. All future details will be forwarded in forthcoming MIPP quarterly reports.

3rd Quarter 2014- Sampled on time (08/18/2014-08/20/2014), reported on time (10/16/2014) and report was complete. This industry reported a total flow of 674,989 gallons for the third quarter. No violations. This industry is in SNC for the period of April 1, 2014-September 30, 2014.

4th Quarter 2014- Sampled on time (11/18/2014-11/20/2014), reported on time (1/22/2015) and report was complete. This industry reported a total flow of 713,422 gallons for the fourth quarter. Aramark had a pH violation on Day 2 (11/19/2014). The pH reading for 11/19/2014 was 10.66 su. Resamping was performed on 12/10/2014, 12/11/2014, and 12/12/2014 with results of 7.45 su, 6.82 su, and 6.13 su, respectively. This industry is in SNC for the period of July 1, 2014-December 31, 2014. Aramark continues to work towards compliance. The Authority will continue to work with this industry.

Compression Polymers (Corey Street)- Non Categorical IndustrialUser

4th Quarter 2013- Sampled on time (10/21/2013-10/23/2013), reported on time (12/12/2013) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (05/20/2014) with no violations.

- 1<sup>st</sup> Quarter 2014- Sampled on time (01/13/2014-01/15/2014), reported on time (04/28/2014) and report was complete. This industry reported a total flow of 5,702,200 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.
- 2<sup>nd</sup> Quarter 2014- Sampled on time (05/5/2014-05/7/2014), reported on time (07/17/2014) and report was complete. This industry reported a total flow of 4,631,000 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014.
- 3rd Quarter 2014- Sampled on time (08/04/2014-08/06/2014), reported on time (10/03/2014) and report was complete. This industry reported a total flow of 4,051,000 gallons for the fourth quarter No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014.
- 4th Quarter 2014- Sampled on time (10/27/2014-10/29/2014), reported on time (1/09/2015) and report was complete. This industry reported a total flow of 4,034,300 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014.

# Compression Polymers (Keyser Avenue)- Non Categorical IU

- 4th Quarter 2013- Sampled on time (10/21/2013-10/23/2013), reported on time (12/12/2013) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.
- Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (05/20/2014) with no violations.
- 1<sup>st</sup> Quarter 2014- Sampled on time (01/13/2014-01/15/2014), reported on time (04/28/2014) and report was complete. This industry reported a total flow of 3,759,800 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.
- 2<sup>nd</sup> Quarter 2014- Sampled on time (04/21/2014-04/23/2014), reported on time (07/17/2014) and report was complete. This industry reported a total flow of 3,363,200 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014.
- 3rd Quarter 2014- Sampled on time (08/11/2014-08/13/2014), reported on time (10/03/2014) and report was complete. This industry reported a total flow of 3,332,300 gallons for the third quarter. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014
- 4th Quarter 2014- Sampled on time (10/28/2014-10/30/2014), reported on time (1/9/2015) and report was complete. This industry reported a total flow of 3,277,600 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014.

CSD CoPackers-(Former Crystal Soda Water Company Facility)-Non Categorical IU 4th Quarter 2013- Sampled on time (11/13/2013-11/15/2013), reported on time (12/18/2013) and report was complete. CSD Copackers had pH violations on Day 1 (11/13/2013) and Day 2 (11/14/2013). The pH reading for 11/13/2013 was 5.32 su and 5.60 su for 11/14/2013. Resampling was performed on 11/20/2013, 11/21/2013, and 11/22/2013 with pH results of 7.20 su, 7.80 su, and 6.99 su, respectively. A notice of violation was issued for pH, along with a requirement to submit to the Authority a completed compliance plan. This industry is not in SNC for the period of July 1, 2013-December 31, 2013. A calculated surcharge for elevated BOD was issued.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (10/02/2014) with no violations.

1st Quarter 2014- Sampled on time (01/27/2014-01/29/2014), reported on time (03/24/2014) and report was complete. This industry reported a total flow of 442,400 gallons for the first quarter. CSD Copackers had pH violations on Day 2 (01/28/2014) and Day 3 (01/29/2014). The pH reading for 01/28/2014 was 11.05 su and 3.42 su for 01/29/2014. Resampling was performed on 02/10/2014, 02/11/2014, and 02/12/2014 with pH results of 7.30 su, 6.57 su, and 7.27 su. A Notice of Violation was issued for pH. This industry is not in SNC for the period of October 1, 2013-March 31, 2014. A calculated surcharge for elevated BOD was issued.

2<sup>nd</sup> Quarter 2014- Sampled on time (06/16/2014-06/18/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 713,200 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated BOD was issued. 3<sup>rd</sup> Quarter 2014- Sampled on time (09/15/2014-09/17/2014), reported on time (10/23/2014) and report was complete. This industry reported a total flow of 322,230 gallons for the third quarter. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014. A calculated surcharge for elevated BOD was issued. 4th Quarter 2014- Sampled on time (11/19/2014-11/21/2014), reported on time (1/23/2015) and report was complete. This industry reported a total flow of 257,950 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014. A calculated surcharge for elevated BOD was issued.

#### David Elliot Poultry Farm-Non Categorical IU

4th Quarter 2013- Sampled on time (10/16/2013-10/18/2013), reported late (2/06/2014), and report was complete. David Elliot Poultry Farm submitted the report on February 6, 2014, when it was due on January 28, 2014. Therefore, a Notice of Violation was issued for a late report. David Elliot Poultry Farm also had a pH violation on Day 3 (10/18/2013) of the sampling event with a reported value of 9.84 su, and the pH limit is 6.0-9.0. Resampling was performed on 10/22/2013, 10/23/2013, 10/24/2013, and 10/25/2013 with reported values of 7.05 su, 7.05 su, 7.06 su, and 7.00 su respectively. A Notice of Violation was issued for pH along with a requirement to submit to the Authority a completed compliance plan. This industry is not in SNC for the period of July 1, 2013-December 31, 2013. A calculated surcharge for elevated BOD was issued. Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (07/09/2014) with no violations. There was an elevated BOD level which would

translate into an industrial surcharge for David Elliot Poultry Farms. A calculated surcharge for elevated ammonia was issued.

1<sup>st</sup> Quarter 2014- Sampled on time (02/19/2014-02/21/2014), reported on time (04/28/2014) and report was complete. This industry reported a monthly average flow of 3,457,998 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014. A calculated surcharge for elevated BOD was issued.

2<sup>nd</sup> Quarter 2014- Sampled on time (05/14/2014-05/16/2014), reported on time (07/28/2014) and report was complete. This industry reported a monthly average flow of 3,327,000 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated BOD was issued.

3rd Quarter 2014- Sampled on time (07/30/2014-08/01/2014) and report was complete. This industry reported a total flow of 3,723,000 gallons for the third quarter. Report was received late on 10/30/2014. The third quarter report is due on 10/28/2014. A Notice of Violation was issued for a late report in the third quarter reporting period. This industry is not in SNC for the period of April 1, 2014- September 30, 2014. A calculated surcharge for elevated BOD was issued.

4th Quarter 2014- Sampled on time (11/05/2014-11/07/2014), reported on time (1/14/2015) and report was complete. This industry reported an average monthly flow of 1,256,500 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014. A calculated surcharge for elevated BOD was issued.

#### Enzyme Development Corporation- Non Categorical 1U

4th Quarter 2013- Sampled on time (12/09/13-12/11/13), reported on time (01/28/2014) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (05/22/2014). There were two violations for pH on 05/22/2014. This industry reported a pH of 5.03 su at 16:10 hours and a pH of 2.93 su at 16:45 hours and pH limit is 6.0-9.0. A Notice of Violation was issued for pH along with a requirement to submit to the authority a completed compliance plan.

1<sup>st</sup> Quarter 2014- This industry samples semi-annually and therefore has not submitted a first quarter report for 2014. This industry is not in SNC for the period of October 1, 2013 to March 31, 2014.

2<sup>nd</sup> Quarter 2014- Sampled on time (05/19/2014-05/21/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 149,300 gallons for the second quarter. Enzyme Development Corporation had a pH violation on Day 1 (05/19/2014). The pH reading for 05/19/2014 was 5.16 su. Resampling was preformed on 05/22/2014 with a pH result of 7.41 su. A Notice of Violation was issued for pH, along with a requirement to submit to the authority a completed compliance plan. This industry is not in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated BOD was issued.

3rd Quarter 2014- This industry samples semi-annually and therefore has not submitted a third quarter report for 2014. This industry is not in SNC for the period of April 1, 2014 to September 30, 2014.

4th Quarter 2014- Sampled on time (11/10/14-11/12/14), reported on time (01/23/2015) and report was complete. This industry reported a total flow of 124,650 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014

# General Dynamics Formerly Chamberlain Manufacturing Co. (Oily waste Outfall)-Categorical IU

4th Quarter 2013- General Dynamic's OWP outfall did not discharge any "wash water" into the SSA collection system during the fourth quarter of 2013. A certified confirmation of the same was received for the fourth quarter of 2013 on 01/28/2014. This industry is not in SNC for the period of July 1, 2013- December 31, 2013. 1st Quarter 2014- General Dynamic's OWP outfall did not discharge any "wash water" into the SSA collection system during the first quarter of 2014. A certified confirmation of the same was received for the first quarter of 2014 on 04/28/2014. This industry is not in SNC for the period of October 01, 2013 to March 31, 2014. 2<sup>nd</sup> Quarter 2014- General Dynamic's OWP outfall did not discharge any "wash water" into the SSA collection system during the second quarter of 2014. A certified confirmation of the same was received for the second quarter of 2014 on July 28, 2014 3rd Quarter 2014- General Dynamic's OWP outfall did not discharge any "wash water" into the SSA collection system during the third quarter of 2014. A certified confirmation of the same was received for the third quarter of 2014 on October 28, 2014. 4th Quarter 2014- General Dynamic's OWP outfall did not discharge any "wash water" into the SSA collection system during the fourth quarter of 2014. A certified confirmation of the same was received for the fourth quarter of 2014 on January 28, 2015.

### General Dynamics Formerly Chamberlain Manufacturing Co. (Production outfall)-Categorical IU

4th Quarter 2013- Sampled on time (12/16-12/18/2013), reported on time (01/28/2014) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection (11/04/2014) and sampling on time (08/05/2014) with no violations.

1<sup>st</sup> Quarter 2014- Sampled on time (03/24/2014-03/26/2014), reported on time (04/28/2014) and report was complete. This industry reported a total flow of 3,031,600 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.

2<sup>nd</sup> Quarter 2014- Sampled on time (06/17/2014-06/19/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 2,424,780 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014.

3<sup>rd</sup> Quarter 2014- Sampled on time (09/22/2014-09/24/2014), reported on time (10/28/2014) and report was complete. This industry reported a total flow of 3,267,270

gallons for the third quarter. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014.

4th Quarter 2014- Sampled on time (12/16/2014-12/18/2014), reported on time (01/28/2015) and report was complete. This industry reported a total flow of 2,391,080 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014.

## JCM Manufacturing (Formerly Lemark, Inc.)- Categorical IU

- 4th Quarter 2013- has gone to a zero process discharge. JCM will continue to submit quarterly reports which will reflect a zero process discharge. Report was submitted on time (01/07/2014) and report was complete. This industry is not in SNC for July 1, 2013-December 31, 2013.
- 1<sup>st</sup> Quarter 2014- has gone to a zero process discharge. JCM will continue to submit quarterly reports which will reflect a zero process discharge. Report was submitted on time (04/21/2014) and report was complete. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.
- 2<sup>nd</sup> Quarter 2014- has gone to a zero process discharge. JCM will continue to submit quarterly reports which will reflect a zero process discharge. Report was submitted on time (07/21/2014) and report was complete. This industry is not in SNC for the period of January 1, 2013-June 30, 2014
- 3rd Quarter 2014- has gone to a zero process discharge. JCM will continue to submit quarterly reports which will reflect a zero process discharge. Report was submitted on time (10/16/2014) and report was complete. This industry is not in SNC for the period of April 1, 2014-September 30, 2014.
- 4th Quarter 2014- has gone to a zero process discharge. JCM will continue to submit quarterly reports which will reflect a zero process discharge. Report was submitted on time (01/27/2015) and report was complete. This industry is not in SNC for the period of July 1, 2014-December 31, 2014.

#### Keystone Sanitary Landfill-Non Categorical IU

4th Quarter 2013- Sampled on time (12/28/2013-12/30/2013), reported on time (01/27/2014) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (12/12/2014) with no violations. There was an elevated ammonia levels which would translate into an industrial surcharge for Apex Waste Management.

- 1<sup>st</sup> Quarter 2014- Sampled on time (03/26/2014-03/28/2014), reported on time (04/25/2014) and report was complete. This industry reported a total flow of 7,040,708 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.
- 2<sup>nd</sup> Quarter 2014- Sampled on time (06/17/2014-06/19/2014), reported on time (07/25/2014) and report was complete. This industry reported a total flow of 8,722,395 gallons for the second quarter. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014.
- 3rd Quarter 2014- Sampled on time (09/23/2014-09/25/2014) and report was complete. This industry reported a total flow of 9,532,352 gallons for the third quarter. Report was

received late on 10/30/2014. The third quarter report is due on 10/28/2014. A Notice of Violation was issued for a late report in the third quarter reporting period. This industry is not in SNC for the period of April 1, 2014-September 30, 2014.

4th Quarter 2014- Sampled on time (12/08/2014-12/10/2014), reported on time (01/12/2015) and report was complete. This industry reported a total flow of 8,098,473 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014- December 31, 2014. A calculated surcharge for ammonia was issued.

#### Master Halco- Categorical IU

4th Quarter 2013- Sampled on time (12/17/2013-12/19/2013), reported on time (01/28/2014) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (10/21/2014) with no violations. There was an elevated ammonia levels which would translate into an industrial surcharge for Apex Waste Management. 1<sup>st</sup> Quarter 2013- Sampled on time (03/04/2014-03/06/2014) and reported on time (04/17/2014). This industry reported a total flow of 464,195 gallons for the first quarter. Master Halco had a reporting violation for failure to submit BOD results that occurred on Day 1 (03/04/14) of the sampling event. After numerous phone calls to locate this missing Day 1 BOD analysis, a Notice of Violation was issued for failure to monitor all pollutants as required by permit with an attached monetary fine. On May 19, 2014 Master Halco sent a revised analytical report which included this missing Day 1 BOD analysis. Master Halco explained it was inadvertently left off the initial lab report. This industry is not in SNC for the period of October 1, 2013- March 31, 2014. 2<sup>nd</sup> Quarter 2014- Sampled on time (06/10/2014-06/12/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 669,905 gallons for the second quarter. Master Halco had zinc violations on Day 1, Day 2, and Day 3 of the second quarter sampling event. The Zinc reading on Day 1 (06/10/2014) was 29 mg/l, 8.3mg/l on Day 2 (06/11/2014), and 120 mg/l on Day 3 (06/12/2014). The Zinc permit limit is 1.60 mg/l. In this 6-month reporting period, 50% of the measurements exceed the TRC value and therefore is in SNC. Master Halco did not resample for Zinc in the second quarter 2014. A Notice of Violation will be issued for Zinc and failure to resample, along with a requirement to submit to the authority a completed compliance plan. This industry is in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated ammonia was issued.

Upon finding this highly elevated zinc parameter, Master Halco immediately notified the Scranton Sewer Authority. Numerous meetings/discussions led to an action plan which is believed to address this non-compliance. If this non-compliance reoccurs, the SSA will elevate enforcement as described in the enforcement response guide. All future details will be forwarded in forthcoming MIPP quarterly reports.

3rd Quarter 2014- Sampled on time (07/15/2014-07/17/2014), reported on time (10/28/2014) and report was complete. This industry reported a total flow of 416,533 gallons for the third quarter. Master Halco had zinc violations on Day 2 and Day 3 of the third quarter sampling event. The Zinc reading on Day 2 (07/16/2014) was 2.2 mg/l and 2.3 mg/l on Day 3 (07/17/2014). The Zinc permit limit is 1.60 mg/l. Resampling was

performed on 08/12/2014, 08/13/2014, and 08/14/2014 with Zinc results of <0.010 mg/l for each resampling day. This industry is in SNC for the period of April 1, 2014-September 30, 2014. The Authority has had numerous discussions with Master Halco in regard to their non-compliance. They have been working to meet compliance and have made numerous changes and progress. It was also discussed with Master Halco that the Authority will be issuing an Administrative Order. An Administrative Order and monetary fine were issued to Master Halco on November 24, 2014.

4th Quarter 2014- Sampled on time (10/07/2014-10/09/2014), reported on time (01/13/2015) and report was complete. This industry reported a total flow of 485,297 gallons for the fourth quarter. No violations. This industry is in SNC for the period of July 1, 2014- December 31, 2014. An Administrative Order and monetary fine were issued to Master Halco on November 24, 2014. Master Halco continues to work towards compliance. The Authority will continue to work with this industry.

Noble Biomaterials (Formerly Sauquoit Industries, Inc.)-Categorical IU  $\frac{4^{th}}{4^{th}}$  Quarter 2013- Sampled on time (11/04/2013-11/06/2013), reported on time (01/22/2014) and report was complete. No violations. Additional sampling was performed for the silver parameter on 10/02/2013 with <0.025 mg/l, on 10/09/2013 with <0.025 mg/l, on 10/16/2013 with <0.025 mg/l, on 10/23/2013 with <0.025 mg/l, 10/30/2013 with <0.025 mg/l, on 11/13/2013 with <0.026 mg/l, on 11/20/13 with <0.025 mg/l, on 12/04/2013 with 0.032 mg/l, and on 12/11/2013 with <0.025 mg/l. No silver violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (07/01/2014). There was a violation for pH on 07/1/2014. This industry reported a pH of 4.75 su and pH limit is 6.0-9.0. A Notice of Violation was issued for pH along with a requirement to submit to the authority a completed compliance plan.

1<sup>st</sup> Quarter 2014- Sampled on time (02/03/2014-02/05/2014), reported on time (04/28/2014) and report was complete. This industry reported a total flow of 6,235,810gallons for the first quarter. Additional sampling was performed for the silver parameter on 01/08/2014 with <0.025 mg/l, on 01/15/2014 with <0.025 mg/l, on 01/22/2014 with <0.025 mg/l, on 01/29/2014 with <0.025 mg/l, on 02/12/2014 with <0.025 mg/l, on 03/06/2014 with <0.025 mg/l, on 03/12/2014 with <0.025 mg/l, on 03/20/2014 with <0.025 mg/l, and on 03/26/2014 with <0.025 mg/l. No violations. This industry is not in SNC for the period of October 1, 2013-March 31, 2014.

 $2^{nd}$  Quarter 2014- Sampled on time (05/05/2014-05/07/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 6,731,070 gallons for the second quarter. Additional sampling was performed for the silver parameter on 03/26/2014 with <0.025 mg/l, on 04/02/2014 with <0.025 mg/l, on 04/09/2014 with 0.030 mg/l, on 04/16/2014 with <0.025 mg/l, 04/23/2014 with <0.025 mg/l, on 04/30/2014 with 0.025 mg/l, on 05/15/2014 with 0.027 mg/l, on 05/21/2014 with 0.027 mg/l, on 05/28/2014 with <0.025 mg/l, on 06/04/2014 with 0.026 mg/l, on 06/11/2014 with <0.025 mg/l, on 06/18/2014 with <0.025 mg/l, and on 06/25/2014 with <0.025 mg/l. No violations. This industry is not in SNC for the period of January 1, 2014-June 30, 2014. A calculated surcharge for elevated ammonia was issued.

3rd Quarter 2014- Sampled on time (08/04/2014-08/06/2014), reported on time (10/15/2014) and report was complete. This industry reported a total flow of 7,205,050 gallons for the third quarter. Additional sampling was performed for the silver parameter on 07/01/2014 with <0.025 mg/l, on 07/09/2014 with <0.025 mg/l, on 07/16/2014 with <0.025 mg/l, on 07/16/2014 with <0.025 mg/l, on 07/23/2014 with <0.025 mg/l, 08/13/2014 with <0.025 mg/l, on 08/20/2014 with 0.094 mg/l, on 08/27/2014 with <0.025 mg/l, on 09/03/2014 with 0.343 mg/l, on 09/09/2014 with <0.025 mg/l, on 09/17/2014 with 0.<0.025 mg/l, on 09/24/2014 with <0.025 mg/l, and on 10/01/2014 with <0.025 mg/l. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014. A calculated surcharge for elevated ammonia was issued.

4th Quarter 2014- Sampled on time (11/03/2014-11/06/2014), reported on time (01/20/2015) and report was complete. Additional sampling was performed for the silver parameter on 10/08/2014 with <0.025 mg/l, on 10/15/2014 with <0.025 mg/l, on 10/22/2014 with <0.025 mg/l, on 10/29/2014 with 0.026 mg/l, on 11/12/2014 with <0.025 mg/l, on 11/19/2014 with <0.025 mg/l, on 12/10/2014 with <0.025 mg/l, on 12/10/2014 with <0.025 mg/l, and on 12/17/2014 with <0.025 mg/l. This industry reported a total flow of 7,111,780 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014. A calculated surcharge for elevated ammonia was issued.

## Steamtown National Historic Site-Categorical IU

4th Quarter 2013- Sampled on time (11/04/2013), reported on time (12/12/2013) and report was complete. No violations. This industry is not in SNC for the period of July 1, 2013- December 31, 2013.

Annual POTW Sampling 2014- The SSA performed the annual inspection and sampling on time (06/04/2014) with no violations.

1<sup>st</sup> Quarter 2014- Sampled on time (02/03/2014), reported on time (03/20/2014) and report was complete. This industry reported a total flow of 2,250 gallons for the first quarter. No violations. This industry is not in SNC for the period of October 01, 2013-March 31, 2014. A calculated surcharge for clevated BOD was issued.

2<sup>nd</sup> Quarter 2014- Sampled on time (04/24/2014), reported on time (07/28/2014) and report was complete. This industry reported a total flow of 1,950 gallons for the second quarter. Steamtown National Historic Site had a pll violation on Day 1 (04/24/2014). The pH reading for 04/24/2014 was 5.75 su, and the pH limit is 6.0-9.0 su. Resampling was performed on 06/17/2014 with a pH result of 7.09 su. A Notice of Violation was issued for pll, along with a requirement to submit to the authority a completed compliance plan. This industry is not in SNC for the period of January 01, 2014-June 30, 2014. A calculated surcharge for elevated BOD will be issued.

3rd Quarter 2014- Sampled on time (08/18/2014), reported on time (10/28/2014) and report was complete. This industry reported a total flow of 3,300 gallons for the third quarter. No violations. This industry is not in SNC for the period of April 1, 2014-September 30, 2014.

4th Quarter 2014- Sampled on time (1/04/2014), reported on time (1/28/2015) and report was complete. This industry reported a total flow of 3000 gallons for the fourth quarter. No violations. This industry is not in SNC for the period of July 1, 2014-December 31, 2014.

## United Gilsonite Laboratories-Categorical IU

4th Quarter 2013- This industry did not discharge any "wash water" into the SSA during the fourth quarter of 2013. A certified confirmation of the same was received for the fourth quarter 2013 on 01/08/2013.

1<sup>st</sup> Quarter 2014- This industry did not discharge any "wash water" into the SSA during the first quarter of 2014. A certified confirmation of the same was received for the first quarter 2014 on 04/11/2014.

2<sup>nd</sup> Quarter 2014- This industry did not discharge any "wash water" into the SSA during the second quarter of 2014. A certified confirmation of the same was received for the second quarter 2014 on 07/17/2014.

3rd Quarter 2014- This industry did not discharge any "wash water" into the SSA during the third quarter of 2014. A certified confirmation of the same was received for the third quarter 2014 on 10/09/2014.

4th Quarter 2014- This industry did not discharge any "wash water" into the SSA during the third quarter of 2014. A certified confirmation of the same was received for the third quarter 2014 on 1/28/2015.

Pre-Treatment Performance Summary



# WWW.scrantonsewer.org Scranton Sewer Authority Phone: 676-348-5330 S12 Adams Avenue, Scranton, PA 18503 Fax: 570-348-5359

# PRE-TREATMENT PERFORMANCE SUMMARY

1. General	Information-		
Cont	rol Authority Name:	Scranton Sewer Authority	
Addı		312 Adams Ave.	
City:		Scranton, PA 18503	
	act Person:	Eugene P. Barrett	
	act Phone Number:	(570)348-5337	
	l address:	epbar@ssauth.org	
	ES Number:	PA-0026492	
	it Effective Date:	October 1, 2012	
	it Expiration Date:	September 30, 2014	
Repo	rting Period:	January 1, 2014- December 31, 2014	
Total	Categorical Industrial Us	sers (CIUs):	5
	Total "Middle Tier"	'CIUs:	0
	Total Nonsignifican	it CIUs:	0
Total	Significant Noncategoric	cal Industrial Users (SNCIUs):	9
2. Complian	ce Monitoring Progran	n	
	No. of SILI's with Cur	rrent Control Documents	
	No. of SILL's Facilities	s Ingrested	15
•	No of SILL's Escilities	s Inspected	14
•	No of Cit is Cub.	s Sampled	12
•	No. of Cit is Decreed	ed Self Monitoring Reports	14
•	No. of SIO's Dropped	from the Program in Current Period	0
•	No. of SIU's Added to	the Program in 2014	0
3. Significan	t Industrial User Comp	liance	
•	No. of SIU's Violating	a Compliance Schedule/No. on a Schedule	0.41
•	No. of SIU's in SNC for	or the July to December Period	0/1
•	No of SILI's in SNC a	t anytime During Calendar Year	2
•	No. of SILI's in SNIC 4	bet were clearing Calendar Year	2
	Calendar Year	hat were also in SNC During the Previous	_
•		oloted annual - 1 . 1	0
•	140. OI MACIOS MISE AN	olated any standards or requirements	0

## 4. Enforcement Actions

•	Notices/Letters of Violation Issued to SIUs	15
	Enforceable Compliance Schedules Issued to SIU's	1
•	Civil/Criminal Suits Filed	0
•	No. of SIU's from which Penalties have been collected	2
	Other Actions (sewer bans, etc)	0

accurate to the best of my knowledge.

Eugene P. Barrett Executive Director

Scranton Sewer Authority

## Part A. Pretreatment Performance Summary

#### **Section 1 Attachment**

## A. Categorical Users:

### **Metal Finishers**

- General Dynamics Ordinance and Tactical Systems (Formerly Chamberlain Manufacturing Corporation) Scranton Ammunition Plant 156 Cedar Avenue Scranton, PA 18505 Industrial Activities: Metal Processing Permit No. 96-006
- JCM Manufacturing/Lemark, Incorporated
   Mill Street
   Dunmore, PA 18512
   Industrial Activity: Metal Processing and Finishing
   Permit No. 2003-01
- Master Halco, Inc.
   1000 North South Rd.
   Scranton, PA 18504
   Industrial Activity: Manufacturing of Fence Building Materials
   Permit No. 2006-01
- Noble Biomaterials
   (Formerly Sauquoit Industries)
   300 Palm Street
   Scranton, PA 18505
   Industrial Activities: Metal and Fiber Finishing
   Permit No.96-007
- Steamtown National Historic Site
   150 S. Washington Avenue
   Scranton, PA 18503
   Industrial Activity: Restoration of Locomotives
   Permit No. 98-003

## B. Non-Categorical Users:

Apex Waste Management
 13 Peggy Parkway
 Dunmore, PA 18512
 Industrial Activity: Solid Waste Disposal and Recycling
 Permit No. 98-001

Aramark Cleanroom Services, Inc.
 1037 Hemlock Street
 Scranton, PA 18505
 Industrial Activity: Textile Washing Under a Controlled Environment
 Permit No. 2005-002

Compression Polymers
 801 Corey Street
 Scranton, PA 18505
 Industrial Activity: Plastics Manufacturing
 Permit No. 07-001

 Compression Polymers 888 Keyser Avenue Scranton, PA 18504 Industrial Activity: Plastics Manufacturing Permit No. 2007-001

 CSD Copackers Company, Inc. 100 West Poplar Street
 Scranton, PA 18509
 Industrial Activity: Soft Drink Manufacturing
 Permit No. 2012-001

David Elliot Poultry Farm (Binyan, L.P.)
 300 Breck Street
 Scranton, PA 18505
 Industrial Activity: Slaughtering and Packaging Chicken and Turkey
 Permit No. 2000-003

Enzyme Development Corporation
 314 S. Sherman Avenue
 Scranton, PA 18504
 Industrial Activity: Blending Of Enzymes for the Food Industry
 Permit No. 97-004

- Keystone Sanitary Landfill
   Dunham Drive, PO Box 249
   Dunmore, PA 18512
   Industrial Activity: Sanitary Landfill
   Permit No. 97-007
- United Gilsonite Laboratories
   1396 Jefferson Avenue
   Scranton, PA 18509
   Industrial Activity: Latex Paint Blending
   Permit No. 97-005

## C. Changes to the Pretreatment Program:

Under the direction of the EPA, starting with the 2014 annual MIPP sampling events at each Industrial User, the Authority took additional grab samples throughout the IUs production schedule. These samples will be compared to previous events. This effort/audit will confirm and document the appropriate number of grab samples for that user. Any concerns such as the variability of the Industrial Users' flow and pollutant levels will be confirmed.

#### Section 2 Attachment

#### List of User Control Documents

### Metal Finishers

- General Dynamics Ordinance and Tactical Systems
  (Formerly Chamberlain Manufacturing Corporation)
  Scranton Ammunition Plant
  156 Cedar Avenue
  Scranton, PA 18505
  Industrial Activities: Metal Processing
  Permit No. 96-006
  Industrial permit issued: April 1, 2012 and expires: March 31, 2017
- Noble Biomaterials
   (Formerly Sauquoit Industries)
   300 Palm Street
   Scranton, PA 18505
   Industrial Activities: Metal and Fiber Finishing
   Permit No.96-007

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

JCM Manufacturing (Formerly Lemark, Inc.)
500 Mill Street
Dunmore, PA 18512
Industrial Activity: Metal Processing and Finishing
Permit No. 2003-01
Industrial permit issued: April 1, 2012 and expires: March 31, 2017

- Steamtown National Historic Site
   150 S. Washington Avenue
   Scranton, PA 18503
   Industrial Activity: Restoration of Locomotives
   Permit No. 98-003
   Industrial permit issued: April 1, 2012 and expires: March 31, 2017
- Master Halco, Inc.
   1000 North South Rd.
   Scranton, PA 18504
   Industrial Activity: Manufacturing of Fence Building Materials Permit No. 2006-01
   Industrial permit issued: April 1, 2012 and expires: March 31, 2017

## D. Non-Categorical Users:

- Aramark Cleanroom Services, Inc.
   1037 Hemlock Street
   Scranton, PA 18505
   Industrial Activity: Textile Washing Under a Controlled Environment Permit No. 2005-002
   Industrial permit issued: April 1, 2012 and expires: March 31, 2017
- Apex Waste Services Inc.
   13 Peggy Parkway
   Dunmore, PA 18512
   Industrial Activity: Solid Waste Disposal and Recycling
   Permit No. 98-001
   Industrial permit issued: April 1, 2012 and expires: March 31, 2017
- Compression Polymers
   801 Corey Street
   Scranton, PA 18505
   Industrial Activity: Plastics Manufacturing
   Permit No. 2007-002
   Industrial permit issued: April 1, 2012 and expires: March 31, 2017

 Compression Polymers 888 Keyser Avenue Scranton, PA 18505

Industrial Activity: Plastics Manufacturing

Pennit No. 2007-003

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

CSD Copackers

100 West Poplar Street

Scranton, PA 18509

Industrial Activity: Soft Drink Manufacturing

Permit No. 2012-001 CSD Copackers

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

David Elliot Poultry Farm (Binyan, L.P.)

300 Breck Street

Scranton, PA 18505

Industrial Activity: Slaughtering and Packaging Chicken and Turkey

Permit No. 2000-003

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

Enzyme Development Corporation

314 S. Sherman Avenue

Scranton, PA 18504

Industrial Activity: Blending Of Enzymes for the Food Industry

Permit No. 97-004

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

Keystone Sanitary Landfill

Dunham Drive, PO Box 249

Dunmore, PA 18512

Industrial Activity: Sanitary Landfill

Permit No. 97-007

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

United Gilsonite Laboratories

1396 Jeffersoл Avenue

Scranton, PA 18509

Industrial Activity: Latex Paint blending

Permit No. 97-005

Industrial permit issued: April 1, 2012 and expires: March 31, 2017

## Sampling, Inspection and Self-Monitoring Events

SIU	Inspections conducted	POTW samples	Self-monitoring Events by User
Apex Waste	1	1	
Management		1	4 (1/quarter)
Aramark Cleanroom	1	1	A (1/mt)
Services	1	i,	4 (1/quarter)
General Dynamics			
(PRO-production	1	1	4 (1/quarter)
outfall)			
General Dynamics			
(OWP-oily waste	1	NA	4 (1/quarter)*
production outfall)			, ,
Compression		1	4 (1/quarter)
Polymers, Inc.	1		
(Corey Street			
Outfall)			
Compression		1	4 (1/quarter)
Polymers, Inc.	1		
(Keyser Ave	1		4 (1/quarter)
Outfall)			
CSD Copackers	1	1	4 ( 1/quarter)
			+ ( 1/quater)
David Elliot Poultry			
Farm	1	1	4 (1/quarter)
Enzyme			
Development	1	1	2 (2/year)
Master Halco, Inc.	1	î	
Keystone Sanitary		1	4 (1/quarter)**
Landfill	1	1	4 (1/quarter)
ICM Manufacturing	1	NA	4 (1/quarter)***
Noble Biomaterials	1	1	4 (1/quarter)
Steamtown National			
Historic Site	1	1	4 (1/quarter)
UGL	1	NA	4 (1/quarter)****

<sup>\*</sup> General Dynamics (sample point OWP) submitted quarterly reports complete and on time for all four quarters in 2014. No self-monitoring events were performed because General Dynamics created a filtered and closed process loop for their OWP effluent and all remaining process waste from sample point OWP was hauled off-site and manifests were submitted to the Authority with their quarterly reports.

\*\* JCM Manufacturing submitted quarterly reports complete and on time for all four quarters in 2014. No self-monitoring events were performed because JCM hauled all industrial process waste off-site and manifests were submitted to the Authority with their quarterly reports.

\*\*\* UGL submitted quarter reports complete and on time for all four quarters in 2014. No self-monitoring events were performed because UGL hauled all industrial process waste off-site and manifests were submitted to the Authority with their quarterly reports.

The Authority inspected all 15 permitted SIU outfalls during the 2014 calendar year. The SSA collected samples from 12 of these permitted industrial outfalls because 3 SIU outfalls have gone to zero discharge. Please see the Industrial Users Comment Report for details of sampling and inspection.

### Section 3 Attachment

# Significant Users in SNC for Anytime During the 2014 Reporting Period (October 2013- December 2014)

There were 2 SIU's in SNC at anytime during the 2014 reporting period, which includes October 2013 through December 2013.

Master Halco was issued an Administrative Order and monetary fine in the amount of \$1,500 in the fourth quarter 2014 for continued zinc violations. In the fourth quarter 2014, this monetary fine was collected. An Administrative Order has been issued to Master Halco as a result of the SNC. This industry worked diligently to fix the source of the zinc issues as stated in the Industrial Users Comment Report. Master Halco has been working to meet compliance and have made numerous changes and progress. They have utilized inside resources along with a third party environmental company to modify their process and chemistry. Master Halco continues to work towards compliance. The Scranton Sewer Authority will continue to work with this industry.

Aramark Cleanroom Services is in SNC for continued pH violations since the second quarter 2014. The authority has met with the industry numerous times throughout the quarter. Initially the authority proposed to issue an administrative order to implement treatment to meet compliance within 180 days; however, as a result of these meetings and Aramark's internal work to identify the source of the pH non compliance, it was decided to order installation of a pH adjusting system. This system was installed third quarter 2014 and Aramark has been working towards meeting compliance. The Authority will continue to work with this industry.

There were two industries in SNC for the year 2014: Master Halco is in SNC since second quarter 2014, and Aramark Cleanroom Services is in SNC since second Quarter 2014.

The following facilities were listed in the Scranton Times/ Tribune as being Significant Non-compliant industries for the year 2014. This ad will be forwarded to EPA.

- Master Halco
- Aramark Cleanroom Services

# **Section 4 Attachments**

The following industries were issued written Notice of Violation Notices for the year 2014.

- Aramark was issued a NOV for failure to submit flows, pH violation, and failure
  to resample violation in the First Quarter 2014, a NOV for pH violations in the
  Second Quarter 2014, a NOV for pH violations in the Fourth Quarter 2014 and a
  pH NOV in the Annual POTW 2014 sample.
- CSD Copackers was issued a NOV for pH in the First Quarter 2014.
- David Elliot Poultry Farm was issued a NOV for late report violations in the Third Quarter 2014.
- Enzyme Development Corporation was issued a NOV for pH violations in the Second Quarter of 2014, and a pH NOV in the Annual POTW 2014 sample.
- Keystone Sanitary Landfill was issued a NOV for late report violations in the Third Quarter 2014.
- Master Halco was issued a NOV for failure to report all pollutants as required by permit violation with an attached monetary fine for the First Quarter 2014 and a NOV for zinc violations in the Second Quarter 2014. In the Fourth Quarter 2014, Master Halco was placed under Administrative Order for repeated Zinc Violations.
- Noble Biomaterials was issued a NOV for a pH violation for the Annual POTW 2014.
- Steamtown National Historic Site was issued a NOV for pH violations in the Second Quarter 2014.

# The following industries were issued an Administrative Order for the year 2014.

Master Halco was issued an Administrative Order for continued zinc violations.
 Master Halco has violated it's permit limit of Zinc during the second and third quarter of 2014 for the sampling events on the following dates: 6/10/2014 daily limit, 06/11/2014 daily limit, 06/12/2014 daily limit, 07/16/2014 daily limit, and 07/17/2014 daily limit. Master Halco has violated Part 2 (Monitoring Requirements) Part 3 (Reporting Requirements) and Section B. (Automatic Resampling) of its Industrial Wastewater Discharge Permit # 2006-01 for the first, second and third quarters of 2014.

This order was entered on November 24, 2014. It states that within 15 days from the receipt of this document, Master Halco is to submit proper documentation in an outline format describing steps to achieve compliance. Within 180 days from the receipt of this document, Master Halco is to install pretreatment technology which will adequately treat Master Halco's wastewater to a level which will permanently comply with its wastewater discharge permit. Additionally, Master Halco is to report on a monthly basis, the wastewater quality with respect to Zinc and the corresponding flow and process information as described in their wastewater discharge permit for a period of nine months from the effective date of this order and up to three months after the effective operation of the newly installed pretreatment facility, whichever is shorter.

Master Halco has put significant resources into meeting compliance. They have utilized inside resources along with a third party environmental consulting company to modify their process and chemistry. Throughout these updates, the SSA has met and assisted Master Halco numerous times. The Authority will continue to work with this industry.

# Part B. Pretreatment Developments

# **Pretreatment Performance Summary Pretreatment Developments**

There were three NPDES violations that occurred at the treatment plant for the year 2014. None of these violations were in any way related to the pretreatment program.

Scranton Sewer Authority (SSA) exceeded its annual average limits for total nitrogen and total phosphorous for the 2014 water year. A Non-Compliance Reporting Form was included in the September 2014 Discharge Monitoring Report. This non-compliance was expected because the completion deadline for SSA's nutrient removal upgrade was not until August 1, 2014, 11 months into the 2014 water year. SSA discharged 986,260 pounds of total nitrogen (against a limit of 356,292) and 72,247 pounds of total phosphorous (against a limit of 48,706). SSA's federal Consent Decree addressed this

\$100,000 purchasing nutrient credits for the 2014 water year using "reasonable diligence in obtaining the best value for any money it spends purchasing credits." Consent Decree \$15.b\$. To comply with this stipulated penalty provision, SSA exercised reasonable diligence to assess the market for nutrient credits. At the conclusion of the review, SSA entered into a confidential credit-purchase agreement with a certified generator to purchase a quantity of 2014 Nitrogen Credits and 2014 Phosphorus Credits for the Susquehanna basin at a commercially reasonable price. The credits were delivered to SSA on October 1, and the Department of Environmental Protection issued registration numbers for the credits on October 2. SSA made payment in the amount of \$100,000 on October 9 to complete the transaction and comply with the Consent Decree. The credit use was reported in November 2014 on SSA's 2014 Annual Nutrient Summary.

The third violation occurred on January 28, 2014 when the SSA reported an overflow from CSO 003 that occurred during a wet weather event in early December 2013. The report was not delivered within 30 days of the overflow — that is, by January 7, 2014. SSA has been in discussions with the Environmental Protection Agency and the Department of Environmental Protection to resolve this isolated instance of non-compliance under the Consent Decree's framework. An agreed-upon formal resolution is expected shortly.

There were no interferences, plant upsets, or NPDES violations which could be attributed to industrial waste in 2014.

Attached is a hardcopy and CD of the EPA monitoring data spreadsheets. On June 10, 2014, the Scranton Sewer Authority sampled the facility's influent as part of the Second Quarter Sampling event. This event's analysis yielded one goal exceedance with a cadmium value of 0.0041 mg/L with a goal of 0.0024mg/L. This cadmium value is a 41.46% exceedance of the goal. On September 25, 2014, the Scranton Sewer Authority also sampled the facility's influent as part of the Third Quarter Sampling event. This event's analysis yielded one goal exceedance with a cadmium value of 0.0044 mg/l. This cadmium value is a 45.45% exceedance of the goal. On December 17, 2014, the Scranton Sewer Authority sampled the facility's influent as part of the Yearly Sampling event. This event's analysis yielded one goal exceedance with a cadmium value of 0.012 mg/l. This cadmium value is 80% exceedance of the goal. On March 18, 2014, the Scranton Sewer Authority sampled the facilities Final Effluent as part of the First Quarter Sampling event. This event's analysis yielded one goal exceedance with a copper value of 0.036 mg/l with a goal of 0.0297 mg/l. This copper value is 17.5% exceedance of the goal. On September 25, 2014, the Scranton Sewer Authority also sampled the facility's Final Effluent as part of the Third Quarter Sampling event. This event's analysis yielded two goal exceedances. The first exceedance was a reported cadmium value of 0.0012 with a goal exceedance of 0.0008 mg/l. This cadmium value is 33.3% exceedance of the goal. The second exceedance was copper with a reported value of 0.11 mg/l. This copper value is 73% exceedance of the goal. On December 17, 2014, the Scranton Sewer Authority sampled the facility's effluent as part of the Yearly Sampling event. This event's analysis yielded one goal exceedance with a cadmium value of 0.0024 mg/l. This

cadmium value is 33.3% exceedance of the goal. Both copper and cadmium are being investigated by looking into industrial data specifically metal finishers. These parameters can also be associated with an older water distribution system as we have seen elevated copper values in background potable water throughout the Scranton water system. In the First Quarter 2015, the Scranton Sewer Authority began a sampling event within the Scranton collection system to attempt to track the above mentioned elevated parameters. Moving forward we will continue to monitor additional wastewater samples within our sewer collection system.

The Authority continues to utilize the sewer billings to include informational documentation, SSA web site, mailings, newspaper, facility tours and the LRCA as a way to educate the public.

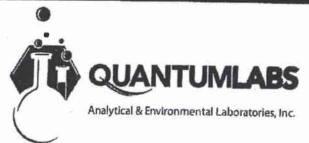
No trucked or hauled waste was accepted at the plant or at any other place within the collection system (to our knowledge) in the 2014 year.

General Dynamics (sample point OWP) submitted quarterly reports complete and on time for all four quarters in 2014. No self-monitoring events were performed because General Dynamic created a filtered and closed process loop for their OWP effluent and all remaining process waste from sample point OWP was hauled off-site and manifests were submitted to the Authority with their quarterly reports. General Dynamics utilized and continues to utilize Ashland Distribution (Nexeo Solutions), Binghamton, NY, Safety Kleen, Wilkes Barre, PA, Environmental Recovery Corporation, Lancaster, PA, U S Environmental, Downingtown, PA, and Aegis Resource Management, Harrisburg, PA. General Dynamics is an ammunition manufacturer and falls under the metal finishers standards.

UGL submitted quarterly reports complete and on time for all four quarters in 2014. No self-monitoring events were performed because UGL hauled all industrial process waste off-site and manifest were submitted to the Authority with their quarterly reports. Since UGL ceased discharging treated water to the SSA, untreated waste water and oil materials are shipped to Waste Recovery Solutions, Inc., Myerstown, PA. UGL is a paint manufacturer.



Yearly Influent Data



#### **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB

#### **YEARLY INFLUENT**

MBAS True Color Nitrite as N NItrate as N TKN Total Phosphorus Ammonia as N Organic Nitrogen Oil & Grease, Total * Oil & Grease, Floatable * NPM (TPH) * Cyanide, Total * Phenols, Total	2.37 110 < 0.010 < 1.00 46.8 3.17 42.7 4.10 9.2 ND < 6.1 < 0.0050 < 0.050	0.040 1 0.010 1.00 10.0 0.10 10.0 1.00 6.1 n/a 6.1 0.0050	mg/L units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	SM <sub>20</sub> 5540 C SM <sub>20</sub> 2120-B SM <sub>20</sub> 4500-NO <sub>2</sub> -B SM <sub>20</sub> 4500-NO <sub>3</sub> -D SM <sub>20</sub> 4500-P B,E SM <sub>20</sub> 4500-NH <sub>3</sub> D n/a EPA 1664A SSA EPA 1664A EPA 3354 EPA 420.1	19-Dec-14 18-Dec-14 19-Dec-14 19-Dec-14 28-Dec-14 19-Dec-14 02-Jan-15 02-Jan-15 07-Jan-15 07-Jan-15 19-Dec-14	13:30 14:00 15:30 10:00	03470-02 03470-06 03470-02 03470-02 03470-02 03470-02 03470-01 03470-01 03470-01 22-293 65-00282	X
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X1 TKN Prep SM<sub>20</sub> 4500 N<sub>org</sub>C/SM<sub>20</sub> 4500 NH<sub>3</sub>B

SSA Scranton Sewer Authority Procedure n/a Not Applicable

\* Sample Collected 18-Dec-14 Time 9:00



824 Enterprise Street Dickson City, PA 18519 phone: 570,489,6964 fax: 570,489,6965 vzew.QUANTUMLABS.net PADLP A modition 35-0376



# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Matrix: Waste Water
Date Sampled: 17/18-Dec-14
Time Sampled: Comp. 8:00 - 8:00
Sampled By: BV/SSA

Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB
Method: EPA 625
Analyst: 22-293

Analyst: 22-293 Analyzed: 26-Dec-14

# SEMI-VOLATILE ORGANICS

# **YEARLY INFLUENT**

Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(c)fluoranthene Benzo(c)fl	< 8.7 < 3.3	1.6 1.6 54.3 1.6 1.6 1.6 1.6 3.3 3.3 8.7 3.3 3.3 3.3 3.3 1.6	h8/L h8/L h8/L h8/L h8/L h8/L h8/L h8/L	DI-n-Butylphthalate DI-n-Octylphthalate Dibenz(a,h)anthracene 3,3-Dichlorobenzidine Diethylphthalate 1,2-Diphenylhydrazine bis (2-Ethylhexyl)phthalate 2,4-Dimethylphenol Dimethylphthalate 2,4-Dinitrotoluene 2,4-Dinitrotoluene Fluoranthene Fluoranthene Fluorene Hexachlorobenzene Hexachlorocyclopentadiene Hexachloroethane	< .3.3 < 8.7 < 1.6 < 17.4 < 8.7 < 3.3 6.7 < 8.7 < 8.7 < 17.4 < 3.3 < 1.6 < 1.6 < 3.3 < 3.3 < 3.3 < 3.3 < 3.3	3.3 8.7 1.6 17.4 8.7 3.3 3.3 8.7 17.4 3.3 1.6 1.6 3.3 3.3 8.7	h8/r h8/r h8/r h8/r h8/r h8/r h8/r h8/r
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# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Matrix: Waste Water
Date Sampled: 17/18-Dec-14
Time Sampled: Comp. 8:00 - 8:00
Sampled By: BV/SSA
Date Received: 18-Dec-14

Time Received: 12:50 Received By: WEB Method: EPA 625

Analyst: 22-293 Analyzed: 26-Dec-14

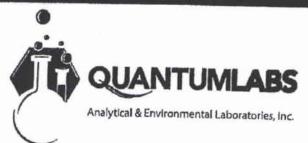
# **YEARLY INFLUENT**

# **SEMI-VOLATILE ORGANICS**

Indeno(1,2,3-cd)pyrene Isophorone	< 1.6 < 3.3	1.3 3.3	µg/L µg/L	Surrogates 2,4,6-Tribromophenol (S)	93	38-134	%
2-Methyl-4,6-dinitrophenol	< 8.7	8.7	µg/L	2-Fluoroblphenyl (S)	79.9	37-113	%
Naphthalene	< 1.6	1.6	hg/L	2-Fluorophenol (S)	53.6	17-73	%
Nitrobenzene	< 3.3	3.3	h8/L	Nitrobenzene-d5 (S)	81.6	37-124	%
2-Nitrophenol 4-Nitrophenol	< 8.7	8.7	µg/L	Phenoi-d5 (S)	36.7	. 11-53	%
N-nitrosodiethylamine	< 8.7	8.7	hg/r	Terphenyl-d14 (S)	78.6	// 33-126	%
N-Nitrosodi-n-propylamine	< 3.3	3.3	µg/L	Annual An		X /	
N-Nitrosodiphenylamine	< 3.3 < 3.3	3.3 3.3	hg/r	1 // N	4	Variable (	
Pentachiorophenol	< 17.4	17.4	μg/L μg/L		A.		
Phenanthrene	< 1.6	1.6	hã/L		3 1		
Phenol	< 8.7	8.7	hg/r	1 1/	1.7		
Pyrene	< 1.6	1.6	µg/L	1 %	d Par		
1,2,4-Trichlorobenzene	< 3.3	3.3	µg/L	1 3	de la companya della companya della companya de la companya della		
2,4,6-Trichlorophenol	< 8.7	8.7	h@/L				

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# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 18-Dec-14 Time Sampled: 9:00 Sampled By: BV/SSA Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB Analyzed: 24-Dec-14

Analyst: 22-293 Method EPA 624

# YEARLY INFLUENT

#### **VOLATILE ORGANICS**

Acrolein Acrylonitrile Benzene Bromodichioromethane Bromodichioromethane Bromomethane Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chlorodibromomethane Chloroethane 2-Chloroethylvinyl ether Chloroform Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane	< 150 < 25.0 < 5.0 < 5.0 < 10.0 < 10.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0	150 25.0 5.0 5.0 10.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	h8/r h8/r h8/r h8/r h8/r h8/r h8/r h8/r	1,3-Dichloropropene, total Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichloroethene Trichlorofluoromethane Vinyl Chloride  Surrogates 1,2-Dichloroethane-d4 (S) 4-Bromofluoromethane (S) Dibromofluoromethane (S) Toluene-d8 (S)	5.0 10.0 967 113 78.7	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 10.0 72-142 73-119 74-132 75-133	% %
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# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB

#### **YEARLY INFLUENT**

Aluminum							
	1.01	0.100	mg/L	EPA 200.7	15-Jan-15		03470-01
Antimony	0.0011	0.0010	mg/L	EPA 200.8	30-Dec-14		22-293
Arsenic	0.0076	0.0015	mg/L	EPA 200.8	30-Dec-14		22-293
Beryllium	< 0.005	0.005	mg/L	EPA 200.7	09-Jan-15		03470-01
Cadmium	0.012	0.00050	mg/L	EPA 200.8	30-Dec-14		22-293
Chromlum, Total	0.0076	0.0010	mg/L	EPA 200.8	30-Dec-14		22-293
Chromlum, Hexavalent	< 0.025	0.025	mg/L	SM <sub>20</sub> 3500 Cr B	18-Dec-14	14:45	
Copper	0.038	0.0025	mg/L	EPA 200.8	30-Dec-14	1	22-293
ron	2.37	0.100	mg/L	EPA 200.7	09-Jan-15	11	03470-01
ead	0.0097	0.0010	mg/L	EPA 200/8	30-Dec-14	7	22-293
fanganese	0.236	0.025	mg/L	EPA 200.7	09-Jan-15	1	03470-01
lercury	< 0.00020	0.00020	mg/L	EPA 245.1	06-Jan-15		22-293
lolybdenum	0.0016	0.0010	mg/L	EPA 200.8	30-Dec-14		22-293
lckel	0.010	0.0025	mg/L	EPA 200.8	30-Dec-14		22-293
elenlum	< 0.0020	0.0020	mg/L	EPA 200.8	30-Dec-1#		22-293
llver	< 0.0010	0.0010	mg/L	EPA 200.8	30-Dec-14		22-293
hallium	< 0.00050	0.00050	mg/L	EPA 200.8	30-Dec-14		22-293
inc	0.13	0.0025	mg/L	EPA 200,8	-30-Dec-14		22-293



# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB

Method: EPA 8081A Analyst: 65-00282

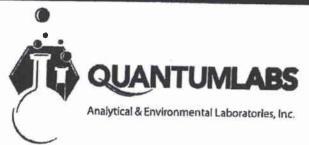
# PESTICIDES YEARLY INFLUENT

Fairbook de production de la company de la c	TOVETTING.	16			
<b>PETATORIO ESPERANTE DE LA COMPANSION</b>	2000年1月1日1日	Egge Helphological	TERRED TREES	1924 A. A. A. G. & G. A. A.	
Aldrin	< 0.027	0.027	uali	94 Dec 44	
alpha-BHC	< 0.027	0.027	μg/L	31-Dec-14	
beta-BHC	< 0.027	0.027	µg/L	31-Dec-14	
delta-BHC	< 0.027	0.027	µg/L	31-Dec-14	
gamma-BHC (Lindane)	< 0.027	0.027	µg/L	31-Dec-14	
alpha-Chlordane	< 0.027	0.027	hB/L	31-Dec-14	
gamma-Chlordane	< 0.027	0.027	µg/L	31-Dec-14	
4,4'-DDD	< 0.055	0.027	μg/L	31-Dec-14	
4,4'-DDE	< 0.055	0.055	µg/L	31-Dec-14	
4,4'-DDT	< 0.055	0.055	µg/L	31-Dec-14	
Dieldrin	< 0.055	575.577	µg/L	31-Dec-14	
Endosulfan I	0.040	0.055	µg/L	31-Dec-14	3
Endosulfan II	< 0.055	0.027	maranana Ha\r	07-Jan-15	
Endosulfan sulfate	< 0.055	0.055	hayr J	31-Dec-14	
Endrin		0.055	µg/L \ €	31-Dec-14	
Endrin aldehyde	< 0.055	0.055	µg/L ∖`	31-Dec-14	
Endrin ketone	< 0.055	0.055	µg/L \	31-Dec-14	
deptachior	< 0.055	0.055	μg/L	31-Dec-14	
	< 0.027	0.027	μg/L 🗼	31-Dec-14	
leptachlor epoxide	< 0.027	0.027	µg/L 🦨	31-Dec-14	
Methoxychlor	< 0.27	0.27	µg/L	31-Dec-14	
°oxaphene	< 0.65	0.55	ha/F.,	31-Dec-14	
iurrogates		Samuel .		- 11	
etrachloro-m-xylene (S)	62	14-136	0/	24 20-14	
Decachlorobiphenyi (S)	43	15-125	%	31-Dec 14	C
		10 120	70	31-Dec-14	. (

CH The continuing calibration for this compound is outside the labs acceptance limits. The results may be blased high.

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#### **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB
Method: EPA 8082

#### YEARLY INFLUENT

РСВ					
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< 0.27 < 0.27 < 0.27 < 0.27 < 0.27 < 0.27 < 0.27	0.27 0.27 0.27 0.27 0.27 0.27	h8/r h8/r h8/r h8/r h8/r	08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15	65-00282 65-00282 65-00282 65-00282 65-00282 65-00282
Surrogates Tetrachloro-m-xylene (S) Decachlorobiphenyl (S)	69 37	29-105 10-110	%	08-Jan-15 08-Jan-15	65-00282 65-00282

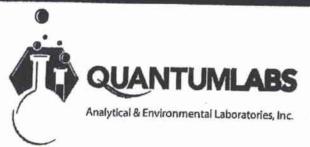
22-293 AIS, 65-00282 Pace

Joe R. Mussari III
Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570,489,6964 https://doi.org/10.0000/ www.duAntumi.abs.net PADD Concentration.com/

CHAIN OF CUSTODY PA DEP 35-03470 info@quantumlabs.net Special Requirements Report To: PA DEP. ASTM. TCLP Dickson City Industrial Park RCRA UST FORM U 824 Enterprise St Dickson City, PA 18519-1593 FORM 43 Contact: Phone: (570) 489-6964 Fax: (570) 489-6965 Phone: Other DW - Drinking Water WW - Waste Water Bill To: Temp GW - Ground Water SL - Sludge Cooler Temperature: 5W - Surface Water SO - Soil Email Address: NPW - Non-Potable TAT: RUSH \_\_\_\_\_ NORMAL HZ - Hazardous Water P - Plastic CG - Glass AG - Amber Glass O - Other PO# PROJECT: ANALYSIS TO BE PERFORMED PRSV / Cont Type Invoice # # of Cont / Size Composite Composite Sample Sample Start Matrix End/Grab Location Sample Description Quantum ID Comments: Intact Containers Within Holding Times ( N **COC Complete** Labels Match COC Sampler/Affl: hand Delivered **Properly Preserved** Rec'd on Ice (V)N Relinquished By Date: Wime: //4 Received By: Relinquished By: Time: Received in Lab By:

CHAIN OF CUSTODY PA DEP 35-03470 info@quantumlabs.net **Special Requirements** Report To: PA DEP **ASTM** TCLP **Dickson City Industrial Park** RCRA UST FORM U 824 Enterprise St Dickson City, PA 18519-1593 FORM 43 Contact: Phone: (570) 489-6964 Fax: (570) 489-6965 Phone: Fax: Other\_\_\_ DW - Drinking Water WW - Waste Water Bill To: pH \_\_\_\_\_ Temp\_ GW - Ground Water SL-Sludge Cooler Temperature: \_ SW - Surface Water SO - Soil Email Address: NPW - Non-Potable TAT: RUSH \_\_\_\_\_ NORMAL HZ - Hazardous Water P - Plastic CG - Glass AG - Amber Glass O - Other PO# PROJECT: **ANALYSIS TO BE PERFORMED** PRSV / Cont Type Invoice # of Cont / Size Composite Composite Sample Sample Start End/Grab Date Location Sample Description Quantum ID 020 022 -023 -Comments: Intact Containers Within Holding Times **COC** Complete Labels Match COC Sampler/Afft: Hand Delivered **Properly Preserved** O N Rec'd on Ice Relinquished By: Time: 114/5 Received By: 1 Relinquished By: Date: Time: Received in Lab By: Time: / 250 Yearly Effluent Data



# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB

#### **YEARLY EFFLUENT**

MBAS True Color Nitrite as N Nitrate as N TKN Total Phosphorus Ammonia as N Organic Nitrogen Oil & Grease, Total * Oil & Grease, Floatable * NPM (TPH) * Cyanide, Total * Phenois, Total	0.987 60 0.048 8.14 2.88 0.83 < 1.00 2.88 < 6.2 ND < 6.2 < 0.0050	0.040 1 0.010 1.00 1.0 0.04 1.00 1.00 6.2 n/a 6.2 0.0050	mg/L units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	SM <sub>20</sub> 5540 C SM <sub>20</sub> 2120-B SM <sub>20</sub> 4500-NO <sub>2</sub> -B SM <sub>20</sub> 4500-NO <sub>3</sub> -D SM <sub>20</sub> 4500-P B,E SM <sub>20</sub> 4500-NH <sub>3</sub> D n/a EPA 1664A SSA EPA 3854 EPA 420.1	19-Dec-14 02-Jan-15 02-Jan-15	13:30 14:00 15:30 10:00	03470-02 03470-06 03470-02 03470-02 03470-06 03470-02 03470-01 03470-01 03470-01 22-293 65-00282	x
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X1 TKN Prep SM<sub>20</sub> 4500 N<sub>erg</sub>C/SM<sub>20</sub> 4500 NH<sub>3</sub>B

SSA Scranton Sewer Authority Procedure n/a Not Applicable

\* Sample Collected 18-Dec-14 Time 9:00





#### **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Matrix: Waste Water
Date Sampled: 17/18-Dec-14
Time Sampled: Comp. 8:00 - 8:00
Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50

Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB Method: EPA 625

Analyst: 22-293 Analyzed: 26-Dec-14

# YEARLY EFFLUENT

# **SEMI-VOLATILE ORGANICS**

Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fl	<1.7 <1.7 <1.7 <1.7 <1.7 <3.4 <3.4 <3.4 <9.2 <3.4 <3.4 <3.4 <3.4 <3.4 <3.4 <3.4 <3.4	1.7 1.7 1.7 57.5 1.7 1.7 1.7 1.7 3.4 3.4 9.2 3.4 3.4 3.4 9.2 3.1 1.7	h8/r h8/r h8/r h8/r	Di-n-Butylphthalate Di-n-Octylphthalate Dibenz(a,h)anthracene 3,3-Dlchlorobenzidine Diethylphthalate 1,2-Dlphenylhydrazine bis (2-Ethylhexyl)phthalate 2,4-Dimethylphenol Dimethylphthalate 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Fluoranthene Fluorene Hexachlorobenzene Hexachlorobentadiene Hexachlorocyclopentadiene Hexachlorocthane	< 3.4 < 9.2 < 1.7 < 18.4 < 9.2 < 3.4 < 3.4 < 9.2 < 18.4 < 3.4 < 1.7 < 1.7 < 3.4 < 3.4 < 9.2 < 3.4 < 3.	3.4 9.2 1.7 18.4 9.2 3.4 3.4 9.2 9.2 18.4 3.4 3.4 1.7 1.7 3.4 3.4 9.2	10/L 10/L
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# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503 Matrix: Waste Water
Date Sampled: 17/18-Dec-14
Time Sampled: Comp. 8:00 - 8:00
Sampled By: BV/SSA

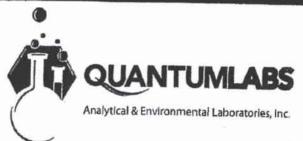
Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB Method: EPA 625

Analyst: 22-293 Analyzed: 26-Dec-14

# **YEARLY EFFLUENT**

#### **SEMI-VOLATILE ORGANICS**

2,4,6-Trichlorophenol	< 9.2	9.2	hg/L	1	ř			
1,2,4-Trichlorobenzene	< 3.4	3.4	µg/L,	1.00	3			
Pyrene	< 1.7	1.7	µg/L	N <sub>z</sub>	1			
Phenol	< 9.2	9.2	μg/L	1 1	1 1			
Phenanthrene	< 1.7	1.7	µg/L	1/	11			
Pentachlorophenol	< 18.4	18.4	µg/L	1//	(3)			
N-Nitrosodiphenylamine	< 3.4	3.4	µg/L		1,			
N-Nitrosodi-n-propylamine	< 3.4	3.4	µg/L	11		Name of		
N-nitrosodiethylamine	< 3.4	3.4	μg/L	giretasi izmini interesig		( 22 .22)		
4-Nitrophenol	< 9.2	9.2	µg/L	Terphenyl-d14 (S)	92.5	// 33-125	•-	
2-Nitrophenol	< 9.2	9.2	µg/L	Phenol-d5 (S)	31.4	11-53	%	
Nitrobenzene	< 3.4	3.4	µg/L	Nitrobenzene-d5 (S)	67.9	37-124	%	
Naphthalene	< 1.7	1.7	µg/L	2-Fluorophenol (S)	46.3	17-73	%	
2-Methyl-4,6-dinitrophenol	< 9.2	9.2	μg/L	2-Fluorobiphenyl (S)	66.7	37-113	%	4
Isophorone.	< 3.4	3.4	µg/L	2,4,6-Tribromophenol (S)	83.5	38-134	%	
Indeno(1,2,3-cd)pyrene	< 1.7	1.7	μg/L	Surrogates				



# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 18-Dec-14 Time Sampled: 9:00 Sampled By: BV/SSA Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB Analyzed: 24-Dec-14 Analyst: 22-293 Method EPA 624

#### YEARLY EFFLUENT

# **VOLATILE ORGANICS**

Acrolein Acrylonitrile Benzene Bromodichloromethane Bromomethane Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chloroethylvinyl ether Chloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropene 1,3-Dichloropropene	< 150 < 25.0 < 5.0 < 5.0 < 10.0 < 10.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0 < 5.0	150 25.0 5.0 10.0 10.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	h8/r h8/r h8/r h8/r h8/r h8/r h8/r h8/r	1,3-Dichloropropene, total Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloroethene Trichloroflyoromethane Vinyl Chloride  Surrogates 1,2-Dichloroethane-d4 (S) 4-Bromoflyorobenzene (S) Dibromoflyoromethane (S) Toluene-d8 (S)	5.0 10.0 94.1 115 79.9	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 72-142 73-119 74-132 75-133	% %
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## **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB

#### **YEARLY EFFLUENT**

A la compleme comp				and the second		
Aluminum	0.054	0.060	mg/L	EPA 200.7	09-Jan-15	03470-01
Antimony	< 0.0010	0.0010	mg/L	EPA 200.8	30-Dec-14	22-293
Arsenic	0.0047	0.0015	mg/L	EPA 200.8	30-Dec-14	22-293
Beryllium	< 0.005	0.005	mg/L	EPA 200.7	09-Jan-14	03470-01
Cadmium	0.0024	0.00050	mg/L	EPA 200.8	30-Dec-14	22-293
Chromlum, Total	0.0034	0.0010	mg/L	EPA 200.8	30-Dec-14	22-293
Chromium, Hexavalent	< 0.025	0.025	mg/L	SM <sub>20</sub> 3500 Cr B	18-Dec-14	14:45 03470-02
Copper	0.0083	0.0025	mg/L	EPA 200.8	30-Dec-14	22-293
ron	0.307	0.050	mg/L	EPA 200.7	09-Jan-15	03470-01
.ead	< 0.0010	0.0010	mg/L	EPA 200:8	30-Dec-14	22-293
Manganese	0.161	0.025	mg/L	EPA 200,7	09-Jan-15	03470-01
Mercury	< 0.00020	0.00020	mg/L	EPA 245.1	06-Jan-15	22-293
Molybdenum	< 0.0010	0.0010	mg/L	EPA 200.8	30-Dec-14	22-293
Vickel	0.0063	0.0025	mg/L	EPA 200.8	30-Dec-14	22-293
Selenium	< 0.0020	0.0020	mg/L	EPA 200.8	30-Dec-14	22-293
Silver	< 0.0010	0.0010	mg/L	EPA-200.8	30-Dec-14	22-293
hallium	< 0.00050	0.00050	mg/L-	EPA 200.8	30-Dec-14	22-293
inc	0.066	0.0025	mg/L	EPA 200.8	-30-Dec-14	22-293



### **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB

Method: EPA 8081A Analyst: 65-00282

# YEARLY EFFLUENT

# **PESTICIDES**

CHAMBIET OF THE STATE OF	<b>种种源注于</b> 的	2007年10日晚年10日		Andluzer	
Aldrin	< 0.027	0.027		21.2	
alpha-BHC	< 0.027	0.027	μg/L	31-Dec-14	
beta-BHC	< 0.027		µg/L	31-Dec-14	
delta-BHC	< 0.027	0.027	µg/L	31-Dec-14	
gamma-BHC (Lindane)	< 0.027	0.027	µg/L	31-Dec-14	
alpha-Chlordane	< 0.027	0.027	µg/L	31-Dec-14	
gamma-Chlordane	< 0.027	0.027	µg/L	31-Dec-14	
4.4'-DDD		0.027	µg/L	31-Dec-14	
4,4'-DDE	< 0.054	0.054	μg/L	31-Dec-14	
4,4'-DDT	< 0.054	0.054	µg/L	31-Dec-14	
Dieldrin	< 0.054	0.054	µg/L	31-Dec-14	
Endosulfan I	< 0.054	0.054	µg/L	31-Dec-14	1
Endosulfan II	< 0.027	0.027	µg/L	31-Dec-14	1
	< 0.054	0.054 🦸 /	µg/L	31-Dec-14	£"
Endosulfan sulfate	< 0.054	0.054	µg/L\	31-Dec-14	
Endrin	< 0.054	0.054	µg/L \	3 31-Dec-14	
Endrin aldehyde	< 0.054	0.054	µg/L	31-Dec-14	
Endrin ketone	< 0.054	0.054	µg/L	31-Dec-14	
leptachlor	< 0.027	0.027	μg/L	31-Dec-14	
leptachlor epoxide	< 0.027	0.027	μg/L ∮	31-Dec-14	
Nethoxychlor	< 0.27	0.27	μg/L Å	31-Dec-14	
oxaphene	< 0.54	0.54		The second second second	
		\ '''	h8/F	31-Dec-14	
Surrogates		\/			1
etrachloro-m-xylene (S)	72	14-136	0/	no 1/2	
ecachlorobiphenyl (S)	70	15-125	%	31-Dec-14	CH
		10-140	%	31-Dec-14	CH

CH The continuing calibration for this compound is outside the labs acceptance limits. The results may be biased high.

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## **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Waste Water Date Sampled: 17/18-Dec-14 Time Sampled: Comp. 8:00 - 8:00

Sampled By: BV/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received By: WEB
Method: EPA 8082

# **YEARLY EFFLUENT**

PCB					
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< 0.27 < 0.27 < 0.27 < 0.27 < 0.27 < 0.27 < 0.27	0.27 0.27 0.27 0.27 0.27 0.27	h8/r h8/r h8/r h8/r h8/r	08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15 08-Jan-15	65-00282 65-00282 65-00282 65-00282 65-00282 66-00282
Surrogates Tetrachloro-m-xylene (S) Decachlorobiphenyl (S)	75 64	29-105 10-110	% %	08-Jan-15 08-Jan-15	65-00282 66-00282

65-00282 Pace, 22-293 ALS

Joe R. Mussari III Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570,489,6964 fax: 570,489,6965 www.QUANTUMLABS.net PA DEP Acceptation 125-03476



Special Requirements PA DEP ASTM TCLP RCRA UST FORM U FORM 43		Q	Phone: (	Dickso B Dickso	alytical 8 on City I 24 Ente on City, I	Environmendustrial rprise St	ental Labo Park	vatorie	i, inc.	5		_	t To:	14 1924	SUP	aus PA	A	PAGE tumlabs.net Sewer Aut VC. 8503 lowsk;	horst
Other Temp  Cooler Temperature:  TAT: RUSH NORMAL			•		GW SW	- Drinking - Ground - Surface \ V - Non-Po Water	Water Water otable	SL - S	Hazaro	tous	eter	hone Bill To	Addr		er Glas	5		Other PO#	,
Location Sample Description Final Estive w	Comp Sample		Comp Sam End/	grab Will	No.	The Hof Cont/Size	THEY CONT TYPE	CCC Grab / Composite	X feb	X SVOC PPL		X X MAAS (1.15)	1	X NO3-N	N-SON	D		Quanti 024 - 12 025 - 026 - \	
Comments:	hindrest.	ny	te: /2/	10	Shipped	:: 1/4	_	nd Deli	eived		Intact COC C	omple	te		6	) N	1	Within Holding Tim Labels Match COC Rec'd on Ice	080

CHAIN OF CUSTODY PA DEP 35-03470 info@quantumlabs.net **Special Requirements** Report To: PA DEP **ASTM** TCLP 312-314 Dickson City Industrial Park RCRA UST FORM U 824 Enterprise St 18503 FORM 43 Dickson City, PA 18519-1593 Contact: Phone: (570) 489-6964 Fax: (570) 489-6965 Phone: Other WW - Waste Water DW - Drinking Water Bill To: pH \_\_\_\_\_ Temp GW - Ground Water SL - Sludge Cooler Temperature: SW - Surface Water SO - Soil Email Address: NPW - Non-Potable TAT: RUSH \_\_\_\_\_ NORMAL HZ - Hazardous Water P - Plastic CG - Glass AG - Amber Glass 0 - Other PO# PROJECT: **ANALYSIS TO BE PERFORMED** Invoice # / Cont Type of Cont / Size Composite Composite Sample 5 Sample Start End/Grab Location Sample Description Quantum ID OZA 030 -Comments: **Intact Containers** (V) N Within Holding Times **COC Complete** Labels Match COC Sampler/Affl: **Properly Preserved** Rec'd on ice Relinquished By /Time: //4 Received By Relinquished By Time: Received in Lab By:

Yearly Sludge Data



# **ANALYTICAL REPORT**

Scranton Sewer Authority 312-314 Adams Avenue Scranton, PA 18503

Sample Matrix: Sludge
Date Sampled: 18-Dec-14
Time Sampled: 9:00

Time Sampled: 9:00 Sampled by: D. Po

Sampled by: D. Potter/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received by: WEB

### **YEARLY SLUDGE**

Aluminum	1199	114	mg/kg	EPA 200.7	15-Jan-15	00470.04
Antimony	< 2.28	2,28	mg/kg	EPA 200.7		03470-01
Arsenic	< 2.28	2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01
Beryllium	< 1.14	1.14			15-Jan-15	03470-01
Cadmlum	< 1.14	1.14	mg/kg	EPA 200.7	15-Jan-15	03470-01
Chromium, Total	5.61	1.14	mg/kg	EPA 200.7	15-Jan-15	03470-01
Hexavalent Chromium	< 0.99	1.0	mg/kg	EPA 200.7	15-Jan-15	03470-01
Copper	43.9	1.14	mg/kg	EPA 7196A	29-Dec-14	65-00282
Iron	2772		mg/kg	EPA 200.7	15-Jan-15	03470-01
Lead	13.6	114	mg/kg	EPA 200.7	15-Jan-15	03470-01
Manganese		2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01
Mercury	117	114	mg/kg	EPA 200.7	15-Jan-15	03470-01
Molybdenum	< 0.095	0.095	mg/kg	EPA 7471A	30-Dec-14	65-00282
Nickel	< 2.28	2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01/
	.4.17	2.28	mg/kg	EPA 200:7	15-Jan 15	03470-01
Selenium	< 2.28	2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01
Silver	< 1.14	1.14	mg/kg	ERA 200.7	15-Jan-15	03470-01
Thallium	< 2.28	2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01
Zinc	108	2.28	mg/kg	EPA 200.7	15-Jan-15	03470-01

Results reported on an as received basis





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# **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Sludge
Date Sampled: 18-Dec-14

Time Sampled: 9:00

Sampled By: D. Potter/SSA
Date Received: 18-Jan-14
Time Received: 12:50
Received By: WEB
Analyzed: 23-Dec-14

Analyzed: Analyst: 23-Dec-14 22-293

Method:

SW 846 8260B

**Yearly Sludge** 

Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethylvinyl ether Chloromethane 1-Dichloroethane 1-Dichloroethane 1-Dichloroethane 1-Dichloroethene 1-Dichloroethene 1-Dichloroethene 1-Dichloropropane	< 458 < 91.5 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3 < 18.3	458 91.5 18.3 18.3 18.3 91.5 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3	haka haka haka haka haka haka haka haka	Ethylbenzene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl Chloride  Surrogates 4-Bromofluorobenzene (S) Dibromofluoromethane (S) Toluene-d8 (S) 1,2-Dichloroethane-d4 (S)	<18.3 <18.3 <18.3 <18.3 <18.3 <18.3 <18.3 <18.3	59-131	#9/kg #9/kg #9/kg #9/kg #9/kg #9/kg #8/kg #8/kg
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Results reported on a dry weight basis



# **ANALYTICAL REPORT**

**Scranton Sewer Authority** 312-314 Adams Avenue Scranton, PA 18503

YEARLY SLUDGE

SEMI-VOLATILE ORGANIC COMPOUNDS

Sample Matrix: Sludge Date Sampled: 18-Dec-14

Time Sampled: 9:00

Sampled By: D. Potter/SSA Date Received: 18-Dec-14 Time Received: 12:50

Received By: Analyzed:

**WEB** 30-Dec-14

Method: Analyst:

SW846 8270D 22-293

PATRICK STREET, STREET

Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(c)anthracene Benzo(c)anthr	< 995 995 < 995 995 < 996 995 < 997 995 < 998 995 < 998 995 < 998 995 < 998 995 < 998 995 < 998 995 < 998 995 < 998 995 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998 < 998 998	hā/kā hā/kā hā/kā hā/kā hā/kā hā/kā hā/kā hā/kā hā/kā	4-Chlorophenylphenyl ether Chrysene Di-n-butylphthalate Di-n-octylphthalate Dibenz(a,h)anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine 2,4-Dichlorophenol Diethylphthalate 2,4-Dimethylphenol Dimethylphthalate 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenylhydrazine	< 995 1330 < 995 < 2690 < 995 < 996 < 995 < 1490 < 1990 < 995 < 2690 < 995 < 2690 < 995 < 995 < 995 < 995 < 995 < 995	995 995 995 2690 995 995 995 1490 1990 995 2690 995 1990 995 995 995	Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg Hg/kg
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Results reported on a dry weight basis





# **ANALYTICAL REPORT**

Scranton Sewer Authority 312-314 Adams Avenue

Scranton, PA 18503

YEARLY SLUDGE

SEMI-VOLATILE ORGANIC COMPOUNDS

Sample Matrix: Sludge Date Sampled: 18-Dec-14 Time Sampled: 9:00

Sampled By: D. Potter/SSA Date Received: 18-Dec-14 Time Received: 12:50 Received By: WEB

Analyzed: 30-Dec-14 Method: **Analyst**:

**EPA 8270D** 22-293

Bis(2-Ethylhexyl)phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone 2-Methyl-4,8-dinitrophenol Naphthalene Nitrobenzene I-Nitrophenol N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine	11900 2460 < 995 < 895 < 995 < 2690 < 995 < 2995 < 2690 < 995 < 2690 < 2690 < 995 < 995	995 995 995 995 996 996 995 995 2690 995 2690 2690 995 995	haka haka haka haka haka haka haka haka	N-Nitrosodiphenylamine Pentachlorophenol Phenanthrene Phenol Pyrene 1,2,4-Trichlorobenzene 2,4,6-Trichlorophenol Surrogates Nitrobenzene-d5 (S) 2-Fluorobiphenyl (S) Terphenyl-d14 (S) Phenol-d5 (S) 2-Fluorophenol (S) 2,4,6-Tribromophenol (S)	< 995 < 1990 1330 12700 1320 < 995 < 1990 67 67.7 75.7 63.9 57.1	995 1990 995 2690 995 995 1990 41-110 45-105 38-113 40-110 35-104 37-123	% % %
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Results reported on a dry weight basis





#### **ANALYTICAL RESULTS**

Scranton Sewer Authority 312-314 Adams Avenue Scranton, PA 18503

YEARLY SLUDGE

**PESTICIDES** 

Sample Matrix: Sludge
Date Sampled: 18-Dec-14
Time Sampled: 9:00

Sampled by: D. Potter/SSA
Date Received: 18-Dec-14
Time Received: 12:50
Received by: WEB
Method: EPA 8081A

Analyst:
Analyzed:

65-00282 30-Dec-14

Aldrin alpha-BHC beta-BHC delta-BHC	< 93.3 < 93.3 < 93.3	93.3 93.3 93.3	ha\ka ha\ka ha\ka	1C 1C 1C	Endosulfan sulfate Endrin Endrin aldehyde Endrin ketone	< 187 < 187 < 187 < 187	187 187 187 187	ha/ka ha/ka ha/ka	10 10
gamma-BHC (Lindane) alpha-Chlordane gamma-Chlordane	< 93.3 < 93.3 < 93.3	93.3 93.3 93.3	ha\ka ha\ka ha\ka	1C 1C 1G	Heptachlor epoxide Methoxychlor	< 93.3 < 93.3 < 933	93.3 93.3 933	hã/kã hã/kã	10
4,4'-DDD 4,4'-DDE 4,4'-DDT	< 187 < 187 < 187	187 187 187	hā/kā hā/kā hā/kā	1C 1C 1C	Toxaphene Surrogates	< 933	933	µg/kg	
Dieldrin Endosulfan I Endosulfan II	< 187 < 93.3 < 187	187 93.3 187	µg/kg µg/kg	1C 1C 1C	Tetrachloro-m-xylene (S) \ Decachloroblphenyl (S)	82 85	87=118 39-122	-	10

IC Sample was diluted due to the presence of high levels of non-target analytes or other matrix interferences resulting in elevated reporting limits for all analytes.

Results reported on an as received basis





# **ANALYTICAL REPORT**

Scranton Sewer Authority 312-314 Adams Avenue Scranton, PA 18503

Sample Matrix: Sludge
Date Sampled: 18-Dec-14

Time Sampled: 9:00

Sampled by: D. Potter/SSA Date Received: 18-Dec-14 Time Received: 12:50

YEARLY SLUDGE

Received by: WEB

Cyanide, Total * Phenolics, Total * Total Solids	1.3 9.7 22.9	0.91 1.0 0.01	mg/kg mg/kg %	EPA 9014 EPA 9065	29-Dec-14 22-Dec-14	65-00282 65-00282
	-210	0.01	70	SM <sub>20</sub> 2540B	18-Dec-14	03470-06
PCBs *						
1016	< 0.10	0.10	mg/kg	EPA 8082	00 lon 45	05 00000
1221	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15	65-00282 65-00282
1232	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15	65-00282
1242	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15	65-00282
1248	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15	65-00282
1254	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15	65-00282
1260	< 0.10	0.10	mg/kg	EPA 8082		65-00282
Total	< 0.10	0.10	mg/kg	EPA 8082	09-Jan-15 / 09-Jan-15	65-00282
Surrogates				11	1 3	STATE OF THE STATE
etrachloro-m-xylene (S)	86	30-107	%	EPA 8082	00 14- 45	0= 000==
Decachiorobiphenyl (S)	87	10-115	%	EPA 8082	09-Jan-15 09-Jan-15	65-00282 65-00282

Results reported on an as received basis

Joe R. Mussari, II) Laboratory Director,

824 Enterprise Street Dickson City, PA 18519 phone: 570.489.6964 fax: 570.489.6965 v/www.QUANTUMLABS.net PAGEP Acception 35-03770



Special Requirements PA DEP ASTM TOLP			W	<u>الر</u>		Environm	/LL ental Lab	A	B u, hc	5		Re	DEP port	35-0 To;	347	0.00	info@	quan	numlabs.net	Hord
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1.

Plant Spirit

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First Quarter Influent Data



April 25, 2014

#### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adarns Ave Scranton, PA 18503

Date Sampled: 18-19-Mar-14

Time Sampled: 24 Hour Composite I 7:30 - 7:30

Sampled By: BV/SSA
Date Received: 19-Mar-14
Time Received: 13:05
Received By: WEB

Sample Matrix: Waste Water

## **INFLUENT/ FIRST QUARTER 2014**

RESULT	PQL	Units	Method	Analyzed	Time	Analyst
< 0.0010	0.0010	ma/i	EDA 8020	02 Ann 14	_	00 505 17
		_				08-00547
		_				68-00547
		_		•	47-00	03470-01
					17:00	03470-02
						68-00547
		_		•		68-00547
		_				03470-02
		_				03470-01
		_				68-00547
0.18	0.0050	mg/L	EPA 6020	02-Apr-14	1	68-00547
. 0 005	1				10	1
		mg/L	EPA 8260B		N. Carrier	03470-01
	0.015	mg/L	EPA 8260B	30-Mar-14	36	.03470-01
0.005	0.005	mg/L	EPA 8260B	30-Mar-14 1,		03470-01
			1/	1,00		
113	70-130	0/.	EDA POCOD	13		
			The state of the s			03470-01
35-73		-				03470-01
		70	1			03470-01
113	70-130	10	ELY 8560B	30-Mar-14		03470-01
	<ul> <li>&lt; 0.0010</li> <li>0.00022</li> <li>&lt; 0.025</li> <li>&lt; 0.025</li> <li>&lt; 0.0023</li> <li>&lt; 0.0002</li> <li>&lt; 0.005</li> <li>&lt; 0.005</li> <li>&lt; 0.005</li> <li>&lt; 0.005</li> <li>&lt; 113</li> <li>127</li> <li>99</li> <li>119</li> </ul>	<0.0010 0.0010 0.00022 0.00010 <0.0025 0.025 <0.025 0.025 0.045 0.0010 <0.0023 0.0010 <0.0002 0.0002 <0.0025 0.050 0.00077 0.00010 0.18 0.0050 <0.005 0.005 <0.015 0.015 0.005 0.005  113 70-130 127 70-130 99 70-130	<ul> <li>&lt; 0.0010</li></ul>	< 0.0010	<ul> <li>&lt; 0.0010</li></ul>	<ul> <li>&lt; 0.0010</li></ul>

68-00547 Pace

<sup>\*</sup> Grab Sample 19-Mar-14 Time 7:30



April 25, 2014

#### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled:

18-19-Mar-14

Time Sampled:

24 Hour Composite I 7:30 - 7:30

Sampled By:

**BV/SSA** 

Date Received:

19-Mar-14

Time Received:

13:05

Received By:

**WEB** 

Sample Matrix:

Waste Water

## **INFLUENT/ FIRST QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	
NITRATE as N	< 1.00	1.00	mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D	20-Mar-14	7:30	03470-02	
NITRITE as N	< 0.010	0.010	mg/L	SM <sub>20</sub> 4500 NO <sub>2</sub> B	20-Mar-14	7:00	03470-02	
TKN	36.5	10.0	mg/L	SM <sub>20</sub> 4500-NH <sub>2</sub> D	02-Apr-14	,,,,,	03470-02	X1
AMMONIA as N	23.5	10.0	mg/L	SM <sub>20</sub> 4500 NH <sub>2</sub> D	26-Mar-14		03470-02	Α.
ORGANIC NITROGEN	13.0	10.0	mg/L	n/a	02-Apr-14		03470-02	
TOTAL NITROGEN	36.5	10.0	mg/L	n/a	02-Apr-14		03470-02	
PHOSPHOROUS, Total	3.99	0.20	mg/L	SM <sub>20</sub> 4500 P B.5E	09-Арг-14		03470-02	
MBAS	1.13	0.04	mg/L	SM <sub>20</sub> 5540 C	20-Mar-14	14:00	03470-02	
COLOR, True	175	1	units	SM <sub>20</sub> 2120 B	19-Mar-14	14:30	03470-02	
OIL and GREASE, Total	9.8	5.6	mg/L	EPA 1664A	14-Apr-14	17.00	03470-02	
* NPM (TPH)	< 10.0	10.0	mg/L	EPA 1664A	14-Apr-14		03470-01	
* CYANIDE, Total	0.013	0.010	mg/L	750 7 F F F F F F	.20-Mar-14.		65-00282	

65-00282 Pace

X1 TKN Prep SM $_{20}$  4500 N $_{\rm erg}$ C/SM $_{20}$  4500 NH $_{3}$ B

\* Grab Sample 19-Mar-14 Time 7:30

Joe R. Mussari III Laboratory Director

CHAIN OF CUSTORY	,																Page	,	1	of	1
CHAIN OF CUSTODY		11	AB		18.4										2qu	ntum	labs.ne	_		0) 489	-6965
Special Requirements	6	V	AN							Re	por	t to: S			m .	Sur	2 Au	tho	etyp		
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RCRA UST FORMU			1	24 Enterpr	ise Street					-		_52	re	da	2	PA	165	03			
FORM 43				on City, P ne: (570						_	onta	37.000	م	y	N	ando	ml			_	
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	4	V	V	34001	HC1	6									×	V7-				2	SECTION AND ADDRESS OF THE PARTY.
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				· aric.			Receiv	ved in I	Lab B	1//	100	Mi C	Sh	2	Da	te: 3	Valin	/ TI	me: /3	05	

1 - 15 (\*)

First Quarter Effluent Data



April 18, 2014

### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled: 18-19-Mar-14

Time Sampled: 24 Hour Composite I 7:30 - 7:30

Sampled By: BV/SSA
Date Received: 19-Mar-14
Time Received: 13:05
Received By: WEB

Sample Matrix: Waste Water

### **EFFLUENT/ FIRST QUARTER 2014**

RESULT	PQL	Units	Method	Analyzed	Time	Analyst
						raidijac
0.0039	0.0010	mg/L	EPA 6020	02-Apr-14		68-00547
0.00017	0.00010	mg/L	EPA 6020			68-00547
< 0.025	0.026	_	EPA 200.7	•		03470-01
< 0.025	0.025	_	SM <sub>20</sub> 3500-Cr B	•	17:00	03470-02
0.036	0.0010	_		Catalante Royal		68-00547
0.0031	0.0010	_		Control of the Contro		68-00547
< 0.0002	0.0002	_		Section of the second section of the second section of the second section sect		03470-02
< 0.025	0.060	_				03470-02
88000.0	0.00010	-		117 11 17 17 17 17 UNIT		68-00547
0.12	0.0050	-				68-00547
				1 th	19	90-00047
< 0.005	0.005	mg/L	EPA 8260B	39-Mar-14	4	03470-01
< 0.015	0.016		16	. 4	America	03470-01
0.009	0.005			- In		03470-01
		-	77	as that it		03470-01
			8 /	1		
116	70-130	%	ÉPÁ 8260B	30-Mar-14		03470-01
126	70-130	%				03470-01
99	70-130		34			03470-01
114	70-130	%				03470-01
	0.00017 < 0.025 < 0.025 0.036 0.0031 < 0.0002 < 0.025 0.00088 0.12 < 0.005 < 0.015 0.009	0.00017 0.00010 < 0.025 0.025 < 0.025 0.025 0.036 0.0010 0.0031 0.0010 < 0.0002 0.0002 < 0.025 0.060 0.0008 0.00010 0.12 0.005 < 0.015 0.016 0.009 0.005  116 70-130 126 70-130 99 70-130	0.00017 0.00010 mg/L < 0.025 0.026 mg/L < 0.025 0.025 mg/L 0.036 0.0010 mg/L 0.0031 0.0010 mg/L < 0.0002 0.0002 mg/L < 0.025 0.050 mg/L 0.0008 0.00010 mg/L 0.12 0.0050 mg/L < 0.005 0.005 mg/L < 0.005 0.005 mg/L  < 0.005 0.005 mg/L  116 70-130 % 99 70-130 %	0.00017 0.00010 mg/L EPA 6020 <0.025 0.025 mg/L SM <sub>20</sub> 3500-Cr B 0.036 0.0010 mg/L EPA 6020 0.0031 0.0010 mg/L EPA 6020 <0.0002 0.0002 mg/L EPA 6020 <0.0002 0.0002 mg/L EPA 245.1 <0.025 0.050 mg/L EPA 6020 0.12 0.0050 mg/L EPA 6020 0.12 0.0050 mg/L EPA 6020  <0.005 0.005 mg/L EPA 6020  <0.005 0.005 mg/L EPA 6020  <0.005 0.005 mg/L EPA 6020  EPA 8260B 0.009 0.005 mg/L EPA 8260B  EPA 8260B  116 70-130 % EPA 8260B  126 70-130 % EPA 8260B  PA 8260B  PA 8260B  PA 8260B  PA 8260B  PA 8260B	0.00017	0.00017

68-00547 Pace

824 Enterprise Street Dickson City, PA 18519 phone: 570,489,6961 - Tax: 570,489,6965 www.QUANTUMLABS.ne: F200Proceedadois:25,03476



<sup>\*</sup> Grab Sample 19-Mar-14 Time 7:30



April 18, 2014

#### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled:

18-19-Mar-14

Time Sampled:

24 Hour Composite I 7:30 - 7:30

Sampled By:

BV/SSA

Date Received:

19-Mar-14

Time Received:

13:05 WEB

Received By: Sample Matrix:

Waste Water

## **EFFLUENT/ FIRST QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	
NITRATE as N	32.4	10.0	mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D	20-Mar-14	7:30	03470-02	
NITRITE as N	0.058	0.010	mg/L	SM <sub>20</sub> 4500 NO <sub>2</sub> B	20-Mar-14	7:00	03470-02	
TKN	6.40	1.00	mg/L	SM <sub>20</sub> 4500-NH <sub>3</sub> D	02-Apr-14	7.00	03470-02	
AMMONIA as N	< 1.00	1.00	mg/L	SM <sub>20</sub> 4500 NH <sub>3</sub> D	26-Mar-14		03470-02	X1
ORGANIC NITROGEN	6.40	1.00	mg/L	n/a	02-Apr-14			
TOTAL NITROGEN	38.8	10.0	mg/L	n/a	02-Apr-14		03470-02 03470-02	
PHOSPHOROUS, Total	2.20	0.10	mg/L	SM <sub>20</sub> 4500 P B.5E	09-Apr-14		03470-02	
MBAS	0.112	0.02	mg/L	SM <sub>20</sub> 5540 C	20-Mar-14	14:00	03470-02	
COLOR, True	100	1	units	SM <sub>20</sub> 2120 B	19-Mar-14	14:30	03470-02	
OIL and GREASE, Total	< 5.8	5.6	mg/L	EPA 1684A	14-Apr-14	14.50	03470-02	
NPM (TPH)	< 5.6	5.6	mg/L	EPA 1884A	14-Apr-14		03470-01	
CYANIDE, Total	< 0.010	0.010	mg/L	SM 4500-CN-E			65-00282	
							1	- 1

65-00282 Pace

X1 TKN Prep SM<sub>20</sub> 4500 N<sub>erg</sub>C/SM<sub>20</sub> 4500 NH<sub>3</sub>B

\* Grab Sample 19-Mar-14 Time 7:30

Joe R. Mussari III Laboratory Director





CHA'N OF CUSTODY		A B 1555	-			Р	A DEF	<b>35-</b> 03	470	info@q	yantumlab	Page	Fax: (570	of
Special Requirements	QU	ANTI	JM		VES.		Repo		Scr	rutar	Suises	1.	thet	, 100 (
PA DEP ASTM TCLP					itories, Inc.			31:	2-3	14	4 dams	A	L	
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FORM 43		Dickson City, P.	A 18519-15	93			Conta	ect:	Ja	NI	rdon!			
Other		Phone: (570		964			Phone	<b>∋</b> :	(		. Fa	DC:		
MOSES		DW - Drinking			Waste Wa	ater	BIII to:							
		GW - Ground		<b>SO</b> - S										
Cooler Temperature: 9,6°C		SW - Surface		SL-S			Email A	Addres	S:					
TAT: RUSHNORMAL	1	NPW - Non-P Water		SD - S							1			
PROJECT: 51 Dunk 2014	+		-1	Plastic		Glass				Glass	0-0	Other	PO#	
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	3/14/130	1500m1	HAD3	<u>C</u>			×	××	<		021			
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											<b>阿斯爾</b>			
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				11000	AACO III LAI	O By:	run,	0.00	4	an D	ate: 3//	9/14	Time: (3	05

a (4)

First Quarter Sludge Data



April 18, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled: 19-Mar-14
Time Sampled: 9:02
Sampled By: BV/SSA
Date Received: 19-Mar-14
Time Received: 13:05

Received By: WEB Sample Matrix: Sludge

## **SLUDGE / FIRST QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Anglunt	
				munou	Allalyzeu	Analyst	-
ARSENIC	< 2.41	2.41	mg/kg	EPA 200.7	18-Apr-14	03470-01	L2
CADMIUM	< 1.20	1.20	mg/kg	EPA 200.7	18-Apr-14	03470-01	1.2
CHROMIUM, Total	5.52	1.20	mg/kg	EPA 200.7	18-Apr-14	03470-01	L2
COPPER	30.3	1.20	mg/kg	EPA 200.7	18-Apr-14	03470-01	
HEXAVALENT CHROMIUM	< 1.0	1.0	mg/kg	EPA 7198A	01-Apr-14	65-00282	L2
LEAD	7.73	2.41	mg/kg	EPA 200.7	18-Apr-14		L2
MERCURY	< 0.098	0.098	rng/kg	EPA 7471A	31-Mar-14	03470-01	12
NICKEL	3.97	2.41	mg/kg	EPA 200.7		65-00282	L2
SILVER	2.08	1.20	mg/kg	EPA 200.7	18-Apr-14	03470-01	L2
ZINC	73.5	2.40	mg/kg	EPA 200.7	18-Apr-14	03470-01	L2
Total Solids	33.8	0.01	%	SM <sub>20</sub> 2540G	18-Apr-14 24-Mar-14	03470-01	L2
Percent Molsture	66.2	0.01	%	SM <sub>20</sub> 2540G	24-Mar-14	03470-06	
CYANIDE, Total	3.5	0.57	mg/kg	SM 4500-CN-E		03470-06	
Toluene *	< 0.27	0.27	mg/kg		24-Mar-14	65-00282	L2
		V.61	mgrky	EPA 8260B	25-Mar-14	65-00282	L2
Surrogates				11	9	12.7	
Foluene-d8 (S)	105	81-117	%	EPA 8260B	25-Mar-14	05 00000	
1-Bromofluorobenzene (S)	102	74-121	%	EPA 8260B		65-00282	
1,2-Dichloroethane-d4 (S)	96	80-120	%	EPA 8260B	25-Mar-14 25-Mar-14	65-00282 65-00282	

65-00282 Pace

\* Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L2 Results reported on a "wet-weight" basis.

Joe R. Mussari III Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570.489.6964 fax: 570.489.6965 www.QUANTUMLABS.net PA DEP Accreditation 35-03470



*						1 1
CHAIN OF CUSTOD				PA DEP 35-03470 info@qu	Page_ uantumlabs.net	Fax: (570) 489-696
Special Requirements	QU	ANTU	MLABS	Report to: Screetin	Seves And	1/ mat
PA DEP ASTM TCLP		Analytical & Enviro	onmental Laboratories, Inc.	312-314 A	In And	morning.
RCRA UST FORMU		Dickson City Industr 824 Enterprise St	fal Park	Screntin	PA 185	03
FORM 43	1	Dickson City, PA 185	19-1593	Contact: Jan Nan	dral	
Other		Phone: (570) 48	0.0 to 10.0 to	Phone:	Fax:	
pHTemp	3.	DW - Orlnking Wa	1.7,544,000	Bill to:		
	FR	GW - Ground Wat				
Cooler Temperature: 9,5°C		SW - Surface Wate		Email Address:		
TAT: RUSHNORMAL	1	Water -			17	
PROJECT: 15 Quarter 2014	, \		P - Plastic CG - Gla	-10 / -1100/ 01033	O - Other	PO#
quality 2014		ez j	ANALYSIS	TO BE PERFORMED	Invoice #	
	Date Sampled	Matrix # of Cont / Size	Grab / Composite  43, 24, 12  11, 13, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 27, 15, 149, 149, 149, 149, 149, 149, 149, 149			
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Location Sample Description	Date Onto	4 0	5 de 12 de 12 de	6 3		
Sludyl	3191N 90V	54 2160g G	1000	7/2	Qu	intum ID
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comments:			Inta	ct Containers ( N		
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ciii iquisiled by:	Date:	Time:	Received In Lab By	((1))	11 914	Time: /200

Second Quarter Influent Data



July 17, 2014

### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503 Date Sampled:

10/11-Jun-14

• !-

24 Hour Composite I 8:00 - 8:00

Time Sampled: Sampled By:

BV/SSA

Date Received: Time Received:

11-Jun-14 13:15

Received By:

KK

Sample Matrix:

**Waste Water** 

## **INFLUENT/ SECOND QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst
ARSENIC	0.0087	0.0010	mg/L	EPA 6020	18-Jun-14		00.0074=
CADMIUM	0.0041	0.00010	_	EPA 6020			68-00547
CHROMIUM, Total	0.0088	0.0010	mg/L		18-Jun-14		68-00547
CHROMIUM, Hexavalent	< 0.025		mg/L	EPA 6020	18-Jun-14		68-00547
COPPER		0.025	mg/L	SM <sub>20</sub> 3500-Cr B	11-Jun-14	15:30	03470-02
	0.0373	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
LEAD	0.0040	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
MERCURY	< 0.0002	0.0002	mg/L	EPA 245.1	25-Jun-14		03470-02
MOLYBDENUM	0.0014	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
NICKEL	0.0089	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
SILVER	0.00062	0.00010	mg/L	EPA 6020	18-Jun-14		68-00547
ZINC	0.102	0.0050	mg/L	EPA 6020	18-Jun-14		88-00547
			_	J. 7	ΔV		00 00071
TOLUENE *	< 0.005	0.005	mg/L	EPA 8260B	17-Jun-14		03470-01
XYLENES, Total *	< 0.015	0.015	mg/L	EPA 8260B	17-Jun-14		
CHLOROFORM *	< 0.005	0.005	mg/L	EPA 8260B	17-Jun-14		03470-01 03470-01
					ir dan ()		00410-01
Surrogates				<b>.</b>	y <sup>®</sup>		
Dibromofluoromethane (S)	116	70-130	%	EPA 8260B-	17-Jun-14		03470-01
,2-Dichloroethane-d4 (S)	129	70-130	%	EPA 8260B	"17-Jun-14		03470-01
Foluene-d8 (S)	100	70-130		EPA 8260B	17-Jun-14		
I-Bromofluorobenzene (S)	123	70-130	%	EPA 8260B	17-Jun-14		03470-01 03470-01

<sup>\*</sup> Grab Sample 11-Jun-14 Time 8:00



July 17, 2014

### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled:

10/11-Jun-14

Time Sampled:

24 Hour Composite I 8:00 - 8:00

Sampled By: Date Received: BV/SSA 11-Jun-14

Time Received:

13:15

Received By:

KK

Sample Matrix:

Waste Water

# **INFLUENT/ SECOND QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	_
NITRATE as N NITRITE as N TKN AMMONIA as N ORGANIC NITROGEN TOTAL NITROGEN PHOSPHOROUS, Total WBAS COLOR, True DIL and GREASE, Total * NPM (TPH) * CYANIDE, Total *	< 1.00 < 0.010 51.0 30.0 21.0 51.0 4.00 2.61 150 9.0 < 5.7 < 0.010	1.00 0.010 10.0 10.0 10.0 0.20 0.100 10 5.7 5.7 0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D SM <sub>20</sub> 4500 NO <sub>2</sub> B SM <sub>20</sub> 4500-NH <sub>3</sub> D SM <sub>20</sub> 4500 NH <sub>3</sub> D n/a n/a SM <sub>20</sub> 4500 P B.5E SM <sub>20</sub> 5540 C SM <sub>20</sub> 2120 B EPA 1664A EPA 1664A SM 4500-CN-E	12-Jun-14 12-Jun-14 13-Jun-14 13-Jun-14 13-Jun-14 13-Jun-14 17-Jun-14 11-Jun-14 20-Jun-14 19-Jun-14	7:45 7:00	03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-01 03470-01 03470-01	X1

X1 TKN Prep SM<sub>20</sub> 4500 N<sub>erg</sub>C/SM<sub>20</sub> 4500 NH<sub>3</sub>B

\* Grab Sample 11-Jun-14 Time 8:00

Joe R. Mussari III Laboratory Director

CHAIN OF CUSTODY Special Requirements		A NIT	FI IN	LAB	6	PA DEP 3		info@q	Page_  uantumlabs.net	Fax: (570) 4
1				ntal Laboratories, In			312-	3111	A 1	Author
PA DEP ASTM TCLP RCRA UST FORM U FORM 43		Dickson ( 824 El Dickson (	City Industrial Parallel Paral	erk 193		"Contac	San	inton	Holans Av. 1850: Vardone Fex:	
Other	•	DW - Drit	nking Water	WW - Waste	Water	Bill to:			,	
pHTemp	2		ound Water	SO - Soil						
Cooler Temperature: 4.7°C	40	SW - Sur	face Water	SL - Sludge		Email Ac	Idress:			
TAT: RUSHNORMAL	7		on-Potable /ater	SD - Solid						
PROJECT:			P -		G - Glas	TO BE	G - Amb		O - Other	PO#
Location Sample Description  Influent	CAND AILING Sampled	WW 75	THE THE WOLLD STEEL STREET STR	C AND NOT	X 1648 P Org N	X X SHENS	X X	Total Charles	Francisco Charles of Connect Charges	antum ID
	V V	3	SOO Night M/L HCI 400 HCI M/L G	G G				X	023=	V
Comments:	019-0	(Xell(4)		fop ab bottle	CO	ct Confe	<b>副材料经验报</b>	0	THE REPORT OF THE PROPERTY OF THE PARTY OF T	TALK STATEMENT STATEMENT OF THE STATEMEN

Second Quarter Effluent Data



July 17, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled:

10/11-Jun-14

Time Sampled:

24 Hour Composite I 8:00 - 8:00

Sampled By:

BV/SSA 11-Jun-14

Date Received: Time Received:

13:15

Received By:

13:15 KK

Sample Matrix:

Waste Water

## **EFFLUENT/ SECOND QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst
ARSENIC	0.0068	0.0010		ED4 0000	40.4		
CADMIUM			mg/L	EPA 6020	18-Jun-14		68-00547
CHROMIUM, Total	< 0.00010	0.00010	mg/L	EPA 6020	18-Jun-14		68-00547
	0.0043	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
CHROMIUM, Hexavalent	< 0.025	0.025	mg/L	SM <sub>20</sub> 3500-Cr B	11-Jun-14	15:30	03470-02
COPPER	0.0134	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
LEAD	< 0.0010	0.0010	mg/L	EPA 6020	18-Jun-14		68-00547
MERCURY	< 0.0002	0.0002	mg/L	EPA 245.1	25-Jun-14		03470-02
MOLYBDENUM	0.0012	0.0010	mg/L	EPA 6020	18-Jun-14	11 700	, 68-00547
NICKEL	0.0076	0.0010	mg/L	EPA 6020	18-Jun-14	<i>(</i>	
SILVER	< 0.00010	0.00010	mg/L	EPA 6020			68-00547
ZINC	0.0567	0.0050	mg/L	EPA 6020	18-Jun-14	A	68-00547
		0.0000	iligic	EPA 0020	18-Jun-14	1.1.1.	68-00547
TOLUENE *	< 0.005	0.005	mg/L	EPA 8260B	47 16 - 44		40.400 - 1
XYLENES, Total *	< 0.015	0.015			17-Jun-14		03470-01
CHLOROFORM *	< 0.005	0.005	mg/L	EPA 8260B	17-Jun-14		03470-01
or Lottor Ottin	~ 0.000	0.005	mg/L	EPA 8260B	17-Jun-14		03470-01
Surrogates				W <sub>1</sub>	N. Carlotte		
Dibromofluoromethane (S)	112	70-130	.%	EPA 8260B	4.2 Jun 4.4		
1,2-Dichloroethane-d4 (S)	129	70-130	- %		17-Jun-14		03470-01
Toluene-d8 (S)	98	70-130		EPA 8260B	17-Jun-14	J. ren	03470-01
I-Bromofluorobenzene (S)	120			EPA 8260B	17-Jun-14	- 20	03470-01
Committee (3)	120	70-130	%	EPA 8260B	17-Jun-14	150	03470-01

<sup>\*</sup> Grab Sample 11-Jun.-14 Time 8:00



July 17, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled:

10/11-Jun-14

Time Sampled:

24 Hour Composite I 8:00 - 8:00

Sampled By:

**BV/SSA** 

Date Received: Time Received:

11-Jun-14 13:15

Received By:

KK

Sample Matrix:

**Waste Water** 

# **EFFLUENT/ SECOND QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	
NITRATE as N NITRITE as N TKN AMMONIA as N ORGANIC NITROGEN TOTAL NITROGEN PHOSPHOROUS, Total MBAS COLOR, True OIL and GREASE, Total NPM (TPH) * CYANIDE, Total *	15.2 0.188 < 1.00 < 1.00 < 1.00 15.4 2.40 0.080 45 < 5.2 < 5.2 < 0.010	2.00 0.020 1.00 1.00 2.00 0.10 0.040 10 5.2 5.2 0.010	mg/L mg/L mg/L mg/L mg/L mg/L units mg/L mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D SM <sub>20</sub> 4500 NO <sub>2</sub> B SM <sub>20</sub> 4500 NH <sub>3</sub> D N/a SM <sub>20</sub> 4500 P B.5E SM <sub>20</sub> 4500 P B.5E SM <sub>20</sub> 5540 C SM <sub>20</sub> 2120 B EPA 1664A EPA 1664A SM 4500-CN-E	12-Jun-14 12-Jun-14 13-Jun-14 13-Jun-14 13-Jun-14 17-Jun-14 11-Jun-14 11-Jun-14 20-Jun-14 19-Jun-14	7:45 7:00 14:30 13;30	03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-01 03470-01 65-00282	XI

X1 TKN Prep SM $_{20}$  4500 N $_{\rm org}$ C/SM $_{20}$  4500 NH $_{3}$ B

\* Greb Sample 11-Jun-14 Time 8:00

Joe R. Mussari III Laboratory Director

Page **CHAIN OF CUSTODY** PA DEP 35-03470 info@quantumlabs.net Fax: (570) 489-6965 **Special Requirements** Report to: PA DEP **ASTM** TOLP Dickson City Industrial Park RCRA UST FORM U **824 Enterprise Street** Contact Dickson City, PA 18519-1593 **FORM 43** Phone: (570) 489-6964 Phone: Fax: Other WW - Waste Water Bill to: DW - Drinking Water Temp **GW** - Ground Water SO - Soil SW - Surface Water Cooler Temperature: SL - Sludge. Email Address: NPW - Non-Potable SD - Solid TAT: RUSH NORMAL Water P - Plastic CG - Glass AG - Amber Glass O - Other PO# PROJECT: **ANALYSIS TO BE PERFORMED** PRSV / Cont Type Invoice # Cont / Size Date Sampled Time Sampled 6 Location Sample Description Quantum ID 6/11/14 0800 Comments: Intact Containers Within Holding Times Y **COC Complete** Labels Match COC Sampler Hand Dellvered Properly Preserved Rec'd on Ice Relinquished By: Received By: Relinquished By Date: Time: Received In Lab By

Second Quarter Sludge Data



July 21, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Date Sampled: 11-Jun-14
Time Sampled: 8:00
Sampled By: BV/SSA
Date Received: 11-Jun-14
Time Received: 13:15
Received By: KK

Sample Matrix: Studge

# **SLUDGE / SECOND QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Analyst	-
				III OLII OLI	ratalyzed	Allayst	
ARSENIC	< 3.70	3.70	mg/kg	EPA 200.7	18-Jul-14	03470-01	
CADMIUM	< 1.85	1.85	mg/kg	EPA 200.7	18-Jul-14	03470-01	1.2
CHROMIUM, Total	6.94	1.85	mg/kg	EPA 200.7	18-Jul-14	03470-01	1.2
COPPER	49.1	1.85	mg/kg	EPA 200.7	18-Jul-14	03470-01	1.2
HEXAVALENT CHROMIUM	< 0.98	0.98	mg/kg	EPA 7196A	20-Jun-14	65-00282	L2
LEAD	14.9	3.70	mg/kg	EPA 200.7	18-Jul-14	03470-01	L2
MERCURY	0.12	0.094	mg/kg	EPA 7471A	21-Jul-14	65-00282	12
NICKEL	4.32	3.70	mg/kg	EPA 200.7	18-Jul-14	03470-01	12
SILVER	1.91	1.85	mg/kg	EPA 200.7	18-Jul-14	03470-01	12
ZINC	133	3.70	mg/kg	EPA 200.7	18-Jul-14	03470-01	L2
TOTAL SOLIDS	26.3	0.01	%	SM <sub>20</sub> 2540G	12-Jun-14	03470-01	L2
PERCENT MOISTURE	73.7	0.01	%	\$M <sub>20</sub> 2540G	12-Jun-14	21 (1.1) 650	
CYANIDE, Total	1.7	0.60	mg/kg	\$M 4500-CN-E		03470-06	
TOLUENE	1.170	0.268	mg/kg		21-Jun-14	65-00282	L2
		0.200	шужу	EPA 8260B	25-Jun-14	65-00282	L2
Surrogates					1.1	14	
foluene-d8 (S)	89	81-117	%	EDA GOGOD	ee 1 2 2 1		
-Bromofluorobenzene (S)	96	74-121	%	EPA 8260B	25-Jun-14	65-00282	
,2-Dichloroethane-d4 (S)	104	80-120	%	EPA 8260B	25-Jun-14	65-00282	
(0)	101	00-120	70	EPA 8260B	25-Jun-14	65-00282	

L2 Results reported on a "wet-weight" basis.

Joe<sup>I</sup>R. Mussari III Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570,489,6964 fax: 570,489,6965 www.QUANTUMLABS.net PA DEP Accreditation 35 03470

2 130



Page CHAIN OF CUSTODY PA DEP 35-03470 info@quantumlabs.net Fax: (570) 489-6965 Special Requirements Report to: PA DEP -**ASTM** TCLP **Dickson City industrial Park RCRA** UST FORM U 824 Enterprise Street Dickson City, PA 18519-1593 Contact: FORM 43 Phone: (570) 489-6964 Phone: Fax: Other **DW** - Drinking Water WW - Waste Water Bill to: Temp **GW** - Ground Water SO - Soll SW - Surface Water SL - Sludge Cooler Temperature: Email Address: NPW - Non-Potable SD - Solid TAT: RUSH NORMAL Water P - Plastic CG - Glass AG - Amber Glass O - Other PO# PROJECT: ANALYSIS TO BE PERFORMED PRSV / Cont Type Invoice # of Cont / Size Time Sampled Date Sampled Location Sample Description Quantum ID Comments: Intact Containers Within Holding Times Y COC Complete N Labels Match COC Sampler: Shipped Properly Preserved / Mand Delivered Rec'd on Ice Relinquished By Received By: Relinquished By: Date: Time: Received In Lab BV

Third Quarter Influent Data



October 24, 2014

### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Date Sampled:

Waste Water 25/26-Sep-14

Time Sampled:

24 Hour Composite 8:30 - 8:30

Sampled By: Date Received: J. Burton/SSA 26-Sep-14

Time Received: Received By:

12:40 WEB

# **INFLUENT/ THIRD QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst
ARSENIC	0.0084	0.0015	mg/L	EDA 200 0	00 5-144		
CADMIUM	0.0044	0.00050		EPA 200.8	02-Oct-14		22-293
CHROMIUM, Total	0.0075	0.0010	mg/L	EPA 200.8	02-Oct-14		22-293
CHROMIUM, Hexavalent			mg/L	EPA 200.8	02-Oct-14		22-293
COPPER	< 0.025	0.025	mg/L	SM <sub>20</sub> 3500-Cr B	26-Sep-14	15:00	03470-02
	0.039 .	0.0025	mg/L	EPA 200.8	02-Oct-14		22-293
LEAD	0.0070	0.0010	mg/L	<b>EPA 200.8</b>	02-Oct-14		22-293
MERCURY	< 0.0002	0.0002	mg/L	EPA 245.1	17-Oct-14		03470-02
MOLYBDENUM	0.0019	0.0010	mg/L	EPA 200.8	02-Oct-14	4 -	22-293
NICKEL	0.0078	0.0025	mg/L	EPA 200.8	02-Oct-14	i.	22-293
SILVER	< 0.0010	0.0010	mg/L	EPA 200.8			22-293
ZINC	0.11	0.0025	mg/L	EPA 200,8	02-Óct-14	Oli Sana Barra	22-293
				11	1		ZE-200
TOLUENE *	< 0.005	0.005	mg/L	EPA 8260B	10-Oot-14		03470-01
XYLENES, Total *	< 0.015	0.015	mg/L	EPA-8260B	10-Oct-14		
CHLOROFORM *	< 0.005	0.005	mg/L	EPA 8280B	10-Oct-14		03470-01
				-101 02000	10-00(-14		03470-01
Surrogates				1	4		
Dibromofluoromethane (S)	107	70-130	%	EPA 8260B	10-Oct-14		
,2-Dichloroethane-d4 (S)	85	70-130	(%	EPA 8260B			03470-01
Toluene-d8 (S)	102	70-130	%	EPA 8260B	-10-Oct-14	900	03470-01
I-Bromofluorobenzene (S)	105	70-130	0/		10-Oct-14		03470-01
		100	70	EPA 8260B	10-Oct-14	10	03470-01

<sup>\*</sup> Grab Sample 26-Sep-14 Time 8:30



October 24, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Date Sampled:

**Waste Water** 25/26-Sep-14

Time Sampled;

24 Hour Composité 8:30 - 8:30

Sampled By: Date Received:

J. Burton/SSA 26-Sep-14

Time Received:

12:40

Received By:

WEB

# INFLUENT/ THIRD QUARTER 2014

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	
NITRATE as N NITRITE as N TKN AMMONIA as N ORGANIC NITROGEN TOTAL NITROGEN PHOSPHOROUS, Total MBAS COLOR, True DIL and GREASE, Total *	< 1.00 < 0.010 69.8 45.4 24.4 69.8 4.08 2.55 140 8.7 < 6.8	1.00 0.010 10.0 10.0 10.0 10.0 0.10 0.1	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D SM <sub>20</sub> 4500 NO <sub>2</sub> B SM <sub>20</sub> 4500-NH <sub>3</sub> D SM <sub>20</sub> 4500 NH <sub>3</sub> D n/a n/a SM <sub>20</sub> 4500 P B.5E SM <sub>20</sub> 5540 C	Analyzed  26-Sep-14  26-Sep-14  07-Oct-14  10-Oct-14  10-Oct-14  26-Sep-14  26-Sep-14  20-Oct-14  20-Oct-14	13:45 13:30 14:15 14:00	03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02	X1
CYANIDE, Total *	< 0.0050	0.0050	mg/L	EPA 335.4	20-Oct-14 06-Oct-14		03470-01 22-293	

X1 TKN Prep  $\rm SM_{20}\,4500\,N_{erg}$ C/SM<sub>29</sub> 4500 NH<sub>3</sub>B

\* Grab Sample 26-Sep-14 Time 8:30

Laboratory Director

Special Requirements	1	0		7)	·	UN Environme		-7	D.	)	ſ	PA DI Repo			crom			ntumlabs.net	
PA DEP ASTM TCLP								atone	s, inc		t	Поро		- /	rom	2-		ver Authority Adams Ave	
RCRA UST FORM U					on City in 24 Enter	dustria) i orise St	Park				t			1	ran	Lu	PA	THOM'S FIVE	
FORM 43			Dhamari			A 18519-					Ī	Cont	act:			-	wdo	10003	
		•	Phone: (	970) 48:	9-6364	Fax: (	570) 489-	6965			Ì	Phon	e:		U	, ,	000	Fax:	
ther		٠.			DW-	Drinking	Water	ww	- Was	ite Wa	ter	Bill T	o:					- 41.	
H Temp	1	Ť.			GW-	Ground \	Water	SL-	Sludge	•	Ī							,	_
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						Water	P - F	Plastic		CG -	Glas	5	A	6 - An	nber G	alass	0	- Other PO#	
WECT: 3rd Quarter 2014		$\overline{}$						te	T	. /	NAL	YSIS	TO E	E PE	RFOR	MED		Invoice #	
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Location	a	au	-	T	Matrix	ů	1	10	2	3	-	0,3	3	5	2 1	10	X		
Sample Description	Date	Time	Date	Time	-	24	NS.	Grab /	2	181	15°	70/0	10/0	34	1/2	立	Aco		
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	12/11	830	9/26/2	SBC		21,500	Ed Hear	C				T	_	x ,	,				
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pler/Affl: Jim Rayfan	RINT	10	KA		Chinand			=				Comp					N	Labels Match COC	₽ N
nquished By Characterial u	101-		Date: O	2. 1.	Shipped _	. /=:		_	ivered			erly Pi	eser A	ved		0	N	Rec'd on Ice	Ø N
nguished Bv:	TXX2-(0-C)	BODE	ate: 4	26/14	Time	: /2:1	0	Re	ceive	d By:	711	111	1	12	111		Date:	9/26/14 Time:	1200

Third Quarter Effluent Data

Page 1 of 2



October 24, 2014

### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: V
Date Sampled: 2

Waste Water 25/26-Sep-14

Time Sampled: Sampled By: 24 Hour Composite 8:00 - 8:00

Date Received: Time Received: J. Burton/SSA 26-Sep-14 12:40

Received By:

WEB

## **EFFLUENT/ THIRD QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst
ARSENIC	0.0071	0.0015	mg/L	EPA 200.8	02-Oct-14		22-293
CADMIUM	0.0012	0.00050	mg/L	EPA 200.8	02-Oct-14		22-293
CHROMIUM, Total	0.0041	0.0010	mg/L	EPA 200.8	02-Oct-14		22-293
CHROMIUM, Hexavalent	< 0.025	0.025	mg/L	SM <sub>20</sub> 3500-Cr B	26-Sep-14	15:00	03470-02
COPPER	0.011	0.0025	mg/L	EPA 200.8	02-Oct-14		22-293
LEAD	< 0.0010	0.0010	mg/L	EPA 200.8	02-Oct-14		22-293
MERCURY	< 0.0002	0.0002	mg/L	EPA 245.1	17-Oct-14		03470-02
MOLYBDENUM	< 0.0010	0.0010	mg/L	EPA 200.8	02-Oct-14	v. n	22-293
NICKEL	0.0056	0.0025	mg/L	EPA 200.8	02-Oct-14	100	22-293
SILVER	< 0.0010	0.0010	mg/L	EPA 200:8	02-Oct-14		22-293
ZINC	0.080	0.0025	mg/L	EPA 200.8	02-Oct-14	12.29	22-293
TOLUENE *	< 0.005	0.005	mg/L	EPA 8260B	10-Ool-14		03470-01
XYLENES, Total *	< 0.015	0.016	mg/L	EPA 8260B	10-Oct-14		03470-01
CHLOROFORM *	< 0.005	0.005	mg/L	EPA 8260B	10-Oct-14		03470-01
Surrogates				The state of the s	1		
Dibromofluoromethane (S)	109	70-130	%	EPA 8260B	10-Oct-14		03470-01
1,2-Dichloroethane-d4 (S)	88	70-130	1%	EPA 8260B	10-Oct-14		03470-01
Toluene-d8 (S)	102	70-130	%	EPA 8260B	10-Oct-14	15	03470-01
4-Bromofluorobenzene (S)	100	70-130	%	EPA 8260B	10-Oct-14	1	03470-01

<sup>\*</sup> Grab Sample 26-Sep-14 Time 8:15



October 24, 2014

## **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Date Sampled:

Waste Water 25/26-Sep-14

Time Sampled:

24 Hour Composite 8:00 - 8:00

Sampled By: Date Received:

J. Burton/SSA 26-Sep-14

Time Received: Received By: 12:40 WEB

# **EFFLUENT/ THIRD QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Time	Analyst	
NITRATE as N NITRITE as N TKN AMMONIA as N ORGANIC NITROGEN TOTAL NITROGEN PHOSPHOROUS, Total MBAS COLOR, True DIL and GREASE, Total * NPM (TPH) *	4.10 0.018 < 1.00 < 1.00 < 1.00 4.28 2.53 0.090 90 < 5.5 < 0.0050	1.00 0.010 1.00 1.00 1.00 0.10 0.040 1 5.5 5.5 0.0050	mg/L mg/L mg/L mg/L mg/L mg/L units mg/L mg/L	SM <sub>20</sub> 4500 NO <sub>3</sub> D SM <sub>20</sub> 4500 NO <sub>2</sub> B SM <sub>20</sub> 4500 NH <sub>3</sub> D SM <sub>20</sub> 4500 NH <sub>3</sub> D n/a n/a SM <sub>20</sub> 4500 P B.5E SM <sub>20</sub> 5540 C SM <sub>20</sub> 2120 B EPA 1664A EPA 335.4	26-Sep-14 26-Sep-14 07-Oct-14 10-Oct-14 10-Oct-14 02-Oct-14 26-Sep-14 26-Sep-14 20-Oct-14 20-Oct-14	13:45 13:30 14:15 14:00	03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-02 03470-01 03470-01 03470-01 22-293	X1

X1 TKN Prep SM<sub>20</sub> 4500 N<sub>org</sub>C/SM<sub>20</sub> 4500 NH<sub>3</sub>B

\* Grab Sample 26-Sep-14 Time 8:15

Joe R. Mussari III Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570.489.6964 fax: 570.489.6965 www.QUANTUMLABS.not PADEP Accreditation 35-03470



Special Requirements					wheten C	Environme	/L	N										tumlabs.n		2
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FORM 43						A 18519-	1593				-		2	Zan	ton	,P	A	18503		
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Third Quarter Sludge Data



October 27, 2014

#### **ANALYTICAL REPORT**

Jay Nardone Scranton Sewer Authority 312-314 Adams Ave Scranton, PA 18503

Sample Matrix: Sludge
Date Sampled: 26-Sep-14
Time Sampled: 9:30

Sampled By: J. Burton/SSA
Date Received: 26-Sep-14
Time Received: 12:40
Received By: WEB

# **SLUDGE / THIRD QUARTER 2014**

Parameter	RESULT	PQL	Units	Method	Analyzed	Analyst
ARSENIC	< 2.97	2.97	malka	EDA 000 7	07.04.44	ELECTION OF THE PROPERTY OF THE PARTY OF THE
CADMIUM	< 1.48		mg/kg	EPA 200.7	27-Oct-14	03470-01
CHROMIUM, Total	5.77	1.70	mg/kg	EPA 200.7	27-Oct-14	03470-01
COPPER		1.48	mg/kg	EPA 200.7	27-Oct-14	03470-01
75.77 T.X 1.41	41.6	1.48	mg/kg	EPA 200.7	27-Oct-14	03470-01
HEXAVALENT CHROMIUM	< 0.99	0.99	mg/kg	EPA 7196A	10-Oct-14	65-00282
LEAD	13.6	2.97	mg/kg	EPA 200.7	27-Oct-14	03470-01
MERCURY	< 0.10	0.10	mg/kg	EPA 7471A	03-Oct-14	65-00282
NICKEL	2.90	1.48	mg/kg	EPA 200.7	27-Oct-14	03470-01
SILVER	2.13	1.48	mg/kg	EPA 200.7	27-Oct-14	03470-01
ZINC	105	5.93	mg/kg	EPA 200.7	27-Oct-14	03470-01
TOTAL SOLIDS	30.6	0.01	%	SM <sub>20</sub> .2540G	30-Sep-14	03470-01
PERCENT MOISTURE	69.4	0.01	%	SM <sub>20</sub> 2540G	30-Sep-14	03470-06
CYANIDE, Total	< 0.87	0.87	mg/kg	EPA 9014	07-Oct-14	65-00282
TOLUENE	0.627	0.418	mg/kg	EPA 8260B	14-Oci-14	
		******	Burg	LI A 0200B	14-001-14	65-00282
Surrogates				1	,7	
Toluene-d8 (S)	107	81-117	%	EPA 8260B	14-Oct-14	65-00282
I-Bromoftuorobenzene (S)	101	74-121	%	EPA 8260B	14-Oct-14	65-00282
,2-Dichloroethane-d4 (S)	98	80-120	%	EPA 8260B	14-Øct-14	65-00282
			3	/-	n	and the same of

Results reported on a "wet-weight" basis.

Joe R. Mussari III
Laboratory Director

824 Enterprise Street Dickson City, PA 18519 phone: 570.489,6964 fax: 570.489,6965 www.QUANTUMLABS.net PA DEP Accreditation 35-03476



Special Requirements	7		W.	-V.	41	UN			D.	3			35-034		fo@qı	uantum	labs.net	
PA DEP ASTM TCLP				Ar	nalytical &	Environme	ental Labo	ratorie	s, Inc.		R	eport	:To:	CVan	ton	Sewo	v Avshor	144
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FORM 43				Distance	24 Ente	rprise 8t - A 18519-							Sc	rando	PH	18	603	
FORM 43			Phone: (	570) 48	9-6964	Fax: (	1003 570) 489-	6965			C	ontac		is .	Mal	dine		
Other											P	hone:	,	1	qejo:	Fax:		
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## Solids Management Inventory 2014

Month	Plant Flow, MGD	Influent BOD, mg/L	Final Eff CBOD mg/L	WAS Daily avg Flow, MGD	Total Solids Landfilled, wet tons
Jan-14	13.348	109	4.8	0.417	1094.42
Feb-14	12.793	128	6.7	0.382	956.77
Mar-14	14.889	111	6.5	0.450	1233.41
Арг-14	16.454	99	7.5	0.321	1266.52
May-14	14.625	98	5.7	0.488	1252.13
Jun-14	12.518	134	6	0.588	1080.71
Jul-14	12.349	124	4.8	0.480	1120.68
Aug-14	11.678	116	4.8	0.589	929.25
Sep-14	10.813	161	4.6	0.441	1022.91
Oct-14	12.413	124	4.1	0.489	1177.31
Nov-14	10.31	142	4.6	0.289	736.95
Dec-14	11.835	114	5.7	0.530	1116.6