VPDES Permit No. VA0087068

Combined Sewer System Annual Report No. 21 for 2015

City of Alexandria, Virginia
Department of Transportation and Environmental Services

FINAL – March 2016

GREELEY AND HANSEN

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Section 1 Introduction

The City of Alexandria (City) owns and operates a combined sewer system (CSS) that discharges combined sewer overflows under wet weather conditions to waters of the Commonwealth of Virginia. The City is authorized to discharge wet weather overflows from its CSS under Virginia Pollutant Discharge Elimination System (VPDES) Permit No. VA0087068 (Permit) issued by the Commonwealth of Virginia Department of Environmental Quality (VDEQ).

Part I.E.12 of the Permit requires the City to submit to VDEQ an annual report on the CSS by March 31st of each year. This is the twenty-first CSS Annual Report for the City and summarizes information for the calendar year 2015. This annual report includes the following required information:

Annual Report Requirements Items:	Location in Report:
Modeled results of the number of CSO occurrences and duration	3.1.1.1
CSS structure inspections and maintenance	4.1.1.1
Outfall inspections	4.1.1.1.1
Staff training records	4.1.1.1.2.1
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On August 22, 2013, VDEQ issued the City its current VPDES permit for the Alexandria CSS, with an effective date of August 23, 2013 and an expiration date of August 22, 2018. The Permit requires the City to continue using the Nine Minimum Controls (NMCs) as its approved Long Term Control Plan (LTCP).

As required by Section A of the Permit, for each outfall during the monitoring period, a minimum of four representative CSO events are to be sampled and analyzed for one outfall each year. Sampling occurred at Outfall 002 in Year 2015. For Year 2016 of the Permit, Outfall 003 will be monitored. For Year 2017 of the Permit, Outfall 004 will be monitored. For Year 2018 of the Permit, Outfall 001 will be monitored.

Section 2 Description of the Alexandria Combined Sewer System

The City's CSS comprises three areas and four permitted CSO outfalls as shown on Figure 1. The area served by combined sewers comprises about 540 acres of the City, which are generally located in the Old Town area and areas east of U.S. Route 1.

During dry weather, sanitary wastewater collected in the CSS is conveyed to the Water Resources Reclamation Facility (WRRF) owned and operated by Alexandria Renew Enterprises (AlexRenew). During particular rainfall events, the capacity of the CSS may be exceeded and this excess flow, which is a mixture of stormwater and sanitary waste, is discharged directly to the Potomac River (Oronoco Bay), Hunting Creek, or Hooffs Run through the City's four permitted CSO outfall structures. The following outfalls are regulated under the City's VPDES Permit as point source discharges of combined sanitary sewage and stormwater overflow from the City's CSS:

CSO Outfall No.	Description
001	Pendleton Street CSO
002	Royal Street CSO
003	Duke Street CSO
004	Hooffs Run CSO

Section 3 CSO Model Results for 2015

3.1 Model Description

A Sewer Overflow Model (SOM) was applied in earlier planning studies in the late 1980s and early 1990s to evaluate the response of the CSS to rainfall and other precipitation events. The SOM successfully simulated a network of sub-basins connected by trunk and intercepting sewers, pumps, and treatment facilities; however, the SOM lacked the ability to model off-line storage. Therefore, the City decided to consider the merits of other software packages that could both build and improve upon the previous modeling work completed using the SOM. The City moved to a stormwater management model (SWMM) to build upon existing modeling work and upgraded an existing system-wide SWMM model to represent the City's combined sewer network. In 2010 the City moved again to a newer, more sophisticated model, XPSWMM. The 2012 annual report was the first for which the XPSWMM model was used and results provided. This 2015 report continues to use the XPSWMM model.

3.1.1 Summary of 2015 Rainfall Data

Rainfall data from Ronald Reagan Washington National Airport for 2015 is summarized as follows:

Total Number of Storm Events	Total Rainfall (inches)
83	44.16

During 2015, a total of 83 storm events were measured. A storm event is defined as rainfall equal to or exceeding 0.05" and separated by at least six continuous dry hours ("dry hours" is defined here to be six continuous hours of no measured rainfall). The presence of a storm event however, does not necessarily mean the occurrence of a CSO. There was at least one measureable event every month during the calendar year.

3.1.1.1 Rainfall Data and Model Results for CSO Outfalls

Rainfall data and model results for 2015 are presented in Tables 1 through 5 (refer to the "Tables" section of this report for detailed modeling results) and summarized in the following table.

CITY OF ALEXANDRIA CSS - 2015 RAINFALL AND OVERFLOW MODEL SUMMARY					
		Rainfall Data for Storms Resulting in Overflows		Estimated Annual Volume of Overflow (MG)	Average Duration of Overflow (Hours)
CSO Outfall Number	Description	Number of Overflows (Occurrences)	Rainfall Contributing to Overflow* (inches)		
001	Pendleton St.	33	29.59	58.79	2.6
002	Royal St.	34	31.72	46.76	2.6
003	Duke St.	41	34.57	14.35	3.7
004	Hooffs Run	44	36.32	11.96	2.7

*For example, for a 1 inch storm, the first 0.15 inches of rain are conveyed to the plant. The last half inch cannot be conveyed to the plant and causes an overflow. Therefore the amount of rain contributing to the overflow is 0.85 inches. This column represents the total amount of rainfall contributing to overflows for the entire year.

Figure 1 shows that both CSO Outfalls 003 and 004 serve the same drainage area, with Outfall 003 being located upstream from Outfall 004. As a result, the majority of overflow volume associated with this drainage area (King and West) primarily occur at Outfall 003. Consequently, Outfall 004 has a notably lower volume of overflow, as indicated above in the table. The estimated volume of overflow discharged in 2015 was 131.9 MG.

Nineteen years of modeled results (1997 through 2015) are summarized and presented in the following table.

City of Alexandria CSS Performance			
	Total Recorded Rainfall (inches)	Average Estimated Overflow Volume (MG)[1]	Average Cumulative Duration (hours)[2]
1997	33.82	2.1	3.2
1998	35.94	2.1	3.4
1999	40.35	3.8	3.4
2000	38.59	2.3	2.7
2001	29.95	2.0	2.8
2002	33.17	2.0	3.2
2003	59.12	3.3	3.4
2004	42.36	3.8	3.6
2005	41.63	4.9	5.2
2006	46.99	5.4	4.2
2007	32.94	2.7	5.0
2008	46.04	4.6	4.2
2009	45.34	2.1	3.4
2010	39.69	3.2	6.8
2011	45.70	3.5	5.3
2012	32.06	2.8	3.5
2013	44.30	3.2	4.3
2014	42.73	2.5	5.9

City of Alexandria CSS Performance			
	Total Recorded Rainfall (inches)	Average Estimated Overflow Volume (MG)[1]	Average Cumulative Duration (hours)[2]
2015	44.16	3.8	2.9

[1] The sum of each CSO outfall's estimated overflow volumes in Table 5.
[2] The average cumulative duration is calculated by summing the average amount of time that overflows occurred at CSOs 001 through 004 and dividing it by 4.

This table features annual data for the total recorded rainfall that caused CSOs to occur, the predicted average volume, and duration per event.

The CSS XPSWMM model was used to estimate the 2015 CSOs. For 2015, based on averages from each outfall, a total of approximately 3.8 million gallons (MG) was estimated to be discharged from the City CSS during each overflow event. Each overflow event had an average cumulative duration of about 2.9 hours based on the average duration for each outfall.

Section 4 CSS Inspection, Operations and Mainteneance Programs

The City's Department of Transportation and Environmental Services (T&ES) is responsible for proper operation and maintenance (O&M) of the CSS and for demonstrating compliance with the NMCs. Previous studies and assessments showed that the City's CSO discharges did not preclude attainment of existing water quality standards. Based on those studies, in 1999 VDEQ approved the City's current LTCP comprised of the NMCs.

4.1 Operation and Maintenance Programs

The Sewer Maintenance Section of T&ES is responsible for O&M of the CSS. Specific information regarding the City's current and ongoing activities for implementing proper operation and maintenance of the CSS are summarized below:

4.1.1 Designated Manager for the CSS

Operation and maintenance activities are performed under the leadership of the CSS Manager. The CSS Manager also serves as a common communication link among respective parties as well as a liaison with the public and regulatory agencies. The City is required to designate a CSS manager pursuant to Fact Sheet 17.e) 1.a of the current Permit. The City has designated the CSS Manager to be:

Mr. Yon Lambert, AICP
Director
Transportation and Environmental Services
City of Alexandria
301 King Street, Rm. 4000
Alexandria, VA 22314

4.1.1.1 Inspection and Maintenance of CSS

Annual inspection of all outfalls, tide gates, diversion and regulator structures within the CSS are required under Fact Sheet 17.e) 1.b of the existing Permit. The City has implemented guidelines for inspecting the various elements of the CSS, including the four permitted outfalls, tide gates at Royal Street (Outfall 002) and Hooffs Run (Outfall 004), and diversion structures at the Duke Street and Hooffs Run outfalls (Outfalls 003 & 004). Inspection and maintenance of diversion and regulator structures, and tide gates occur at least on a monthly basis per the permit; while dry weather outfall inspections occur twice a month. In July of 2012, the City developed a more comprehensive and uniform outfall inspection form in response to a June 2012 EPA inspection. The forms were developed so that consistent information was collected at all outfalls and now includes Outfall 001 and Outfall 002 starting in July 2012. The results of these inspections are documented and the corresponding forms are included in Appendix B.

AlexRenew maintains the outfall and diversion structures for the Pendleton and Royal Street outfalls (Outfalls 001 & 002). AlexRenew also owns and maintains the Royal Street regulator structure. The documentation that corresponds with AlexRenew's inspections is included in Appendix C.

4.1.1.1.1 Preventive Maintenance

The City continues to practice an extensive program of sewer system preventive maintenance. Focusing on preventive maintenance has helped the City reduce the need for corrective and emergency maintenance. The City's current preventive maintenance program includes the following activities:

- Monthly problem area grease flushing;
- Flushing of the sanitary sewers, storm sewers, and combined sewers in the CSS;
- Internal sewer CCTV inspections;
- Inlet and catch basin cleaning; and
- Sweeping and cleaning of the streets.

The activities performed under the City's preventive maintenance program help maintain the hydraulic capacity of the CSS in addition to maximizing the storage capacity of the collection system. Included in this report are the O&M records documenting the City's individual preventive maintenance activities for the City's sewer system, including the area within the CSS.

4.1.1.1.2 Allocation of Funds for O&M

During calendar year 2015, the City spent a total of approximately $5.91 million on operation and maintenance activities related to the City's sewer system. Of this amount, the City estimates that approximately 39 percent, or $2.3 million was related to the CSS.

In addition to its operations and maintenance budget, the City has allocated $93.3 million over the next ten years in capital improvement program (CIP) projects related to the entire sanitary sewer system. Based on a detailed review of the City's accounting system, project expenditures for combined sewer mitigation and continued implementation of the LTCP totaled approximately $1.43 million during calendar year 2015. Appendix D includes a copy of the City's approved FY 2015 ten-year CIP program related to sewer rehabilitation and pollution abatement.

4.1.1.1.2.1 Training

The City conducts periodic training programs in work and safety procedures related to the operation and maintenance of the CSS. The staff training records can be found in Appendix E.

4.2 Control Solid and Floatable Materials

Measures implemented to control solids and floatable materials in City CSOs are summarized as follows:

- Regular street and catch basin cleaning;
- Regular sewer flushing to prevent buildup of solids;
- Regular leaf collection and litter removal; and
- Use of hooded (inverted outlets) catch basins to retain solids and floatables.

The City follows a regular street sweeping schedule to remove trash and litter in the streets and alleys that may otherwise be washed into the CSS. The City sweeps all of the streets in the CSS area at least once per week. Some areas are cleaned on a daily basis, Monday through Friday. Copies of the forms documenting the City's street sweeping activities are included along with the other activity reports in Appendix F.

Additionally, the City provides overflow screens in the outfall tide gate chamber downstream of the Royal Street CSO regulator. The City also routinely performs sewer flushing, as well as inlet and catch basin cleaning within the CSS. Copies of these maintenance reports are also included in Appendix G and Appendix H, respectively.

4.3 Maximize Use of Collection System for Storage

Measures implemented by the City to maximize storage within the CSS to retain wet weather flow are summarized as follows:

- CSO diversion structures are designed to permit filling of the trunk sewers to at least 3 times dry weather flow (DWF) before overflow occurs.
- Storm and sanitary sewers are flushed on a regular basis to remove accumulated sediments to maximize sewer capacity and diversion structure capacity. City maintenance records documenting sewer flushing and cleaning activities are included as required in the Permit Fact Sheet, Part I. Section d.1.b.

4.4 Pollution Prevention

Pollution prevention programs and activities implemented by the City are summarized as follows:

- Leaf collection
- Hazardous waste recycling
- General single-stream recycling and solid waste control
- Street cleaning and litter control
- Best management practices (BMP) manual for automotive related industries. All businesses that require a Special Use Permit (SUP) comply with this manual by placing appropriate conditions on their SUPs. A copy of the City's BMP handbook can be downloaded at http://alexandriava.gov/uploadedFiles/tes/info/Automotive_BMP_manual.pdf.
- Work release: T&ES uses work release crews under the general supervision of the Sheriff's Office to perform general clean-up and related projects that benefit the community.
- Aggressive illicit discharge detection and elimination system program with dedicated Code Enforcement staff as the Environmental and Industrial Unit (EIU).
- "My City" internal reporting program includes "illicit discharges" as part of the issue topics.

Included in Appendix I is a copy of information regarding the leaf collection program that is made available to all City residents.

4.5 Control of Non-Domestic Discharges

AlexRenew administers and implements an industrial pretreatment program under its VPDES Permit. In 2001, the City developed a revised ordinance for environmental offenses. The ordinance is included in Appendix J. Also included in Appendix J is City ordinance dealing with requirements for discharging to the AlexRenew WRRF.

AlexRenew has reported there are no Significant Industrial Users (SIUs) or remediated dischargers within the CSS.

4.6 Maximize Flow to the POTW

The WRRF is owned, operated, and maintained by AlexRenew and is regulated under a separate VPDES Permit. During wet weather conditions, the waste treated at the WRRF is increased to the maximum rate that can be handled to provide complete treatment. Normally, the WRRF increases treatment flow from a dry weather range of approximately 35 mgd to more than 100 mgd during wet weather events.

The City has undertaken various sewer separation projects, covering multiple Permit cycles, which increase the flow directed to the WRRF. These projects are as follows:

- The Tanyard Ditch Relief Storm Sewer Project, completed in 2007, featured installing a new storm sewer within the combined area and relocating the existing combined sewer. The drainage area associated with the new storm sewer was removed from the CSS as the new storm sewer discharges to the Potomac River. Approximately 11.5 acres in the Royal Street CSS Area were separated.
- Approximately 3 city blocks in Pendleton Street CSS area were either partially separated (sanitary sewerage removed from the CSS area) or completely separated (storm and sanitary sewers no longer contribute to the CSS) as part of the Madden Homes/Chatham Square redevelopment project completed in 2007. The stormwater was diverted to existing stormwater outfalls. A 36-inch sanitary sewer on Pendleton Street was constructed to receive separated wastewater flows. This 36-inch sanitary sewer discharges to the Potomac Interceptor downstream of Outfall 001. A total of approximately 13 acres were separated.
- Two areas were redeveloped in the CSS area with sanitary flows redirected to the Potomac Yard Trunk Sewer, which connects directly to AlexRenew. The separation project was completed in 2008. Previously, these areas discharged to the combined sewer. The redeveloped areas include the following:
  - 1115 Cameron Street – includes 64 condominium units
  - 500 N Henry Street – includes 168 condominium units and retail
- The Wythe Street sewer separation project was completed in the summer of 2010 as part of a redevelopment project in the King and West combined sewer area. One thousand linear feet was pipe installed using trenchless technology along Wythe Street between N. Fayette Street and N. Alfred Streets. The project resulted in 1.44 acres separated and removed from the combined sewer service area.
- In 2014, two projects associated with the Area Reduction Plan, which aims to redirect sanitary or storm flow to a separate system that have finished construction. The Harris Teeter

development along Madison Street between N. Saint Asaph Street and N. Pitt Street separated and removed approximately 1.5 acres of sanitary sewage from the combined sewer service area. The James Bland Phase II development located in the Braddock East area separated and removed approximately 3.2-acres of sanitary flow from the combined sewer service area.

- Mobilization of the Payne and Fayette Separation Projection began in June of 2015. The project consists of 5 sites along Payne Street and Fayette Street that remove sanitary flows from the CSS and divert them into the Potomac Yard Trunk Sewer. Three sites were completed as of December of 2015, and full completion of the project is expected in 2016. Once completed, a total of 8.2 acres of sanitary sewage will be separated from CSS area. To date, a total of 4.3 acres has been separated.

The City continues to periodically identify specific areas that can be separated as future development opportunities arise.

4.7 Dry Weather Overflows

In 2012, the City conducted a dry weather overflow (DWO) inspection program to ensure no dry weather overflows were occurring. In accordance with Fact Sheet 17.e.5 of the existing Permit, the City inspects each CSO outfall (Outfalls 001-004) at least twice per month and documents each occurrence as to the presence of DWOs. Attached in Appendix K are the DWO inspection records for Outfalls 001-004. In the year 2015, no instances of dry weather overflows were reported in the City of Alexandria.

Section 5 CSO Abatement Projects Expenditures and Other Updates

5.1 Capital Expenditures for CSO Abatements

In Calendar year 2015, a total of $1.43 million was expended on projects related to the combined sewer system. A breakdown of these expenditures is provided below:

- **Combined Sewer System Permit Activities**: A total of $110,069 was spent on the permit activities that include the City's water quality monitoring and sampling program, preparations for the annual CSS report, and public notification.
- **Green Infrastructure Demonstration Projects**: A total of $39,942 was spent towards studying green infrastructure in the City right-of-way. Concept designs on demonstration projects are currently being developed. Future detailed design will take place in 2016. It is anticipated that at least one project will move to construction in 2017.
- **Combined Sewer Separation**: A total of $816,025 was spent on the Payne and Fayette Sewer Separation project. This project is under construction and will be completed in Spring-Summer 2016. Once completed, this project will meet the requirements of Part I.E.8.d.
- **CSO 004 Weir Improvement**: A total of $36,752 was spent towards the engineering design and construction of weir improvements at CSO outfall 004 as required by Part I.E.8.e of the permit. This project was completed in February 2016, satisfying the Permit requirement and any CSO reductions will be included in the 2016 Annual Report.
- **Long Term Control Plan Update (LTCPU)**: A total of $400,753 was spent towards updating the current Long Term Control Plan to address the Hunting Creek Bacteria TMDL as required under Part I.E.4. The LTCPU will be submitted to VDEQ by the August 2016 deadline.
- **Combined Sewer Separation Investigation**: A total of $28,180 was spent towards Combined Sewer Separation Investigation Project. It will provide engineering services related to the identification and recommendation of site(s) for separation and follow-up field investigation, feasibility and design services for the recommended site(s).

As stated in Part I.E.7 of the permit, the City is required to spend $2.5 million in CSO abatement projects over the 5-year permit cycle. To date, a total of $2.7 million has been spent since 2014. Therefore the requirements of Part I.E.7 of the permit have been satisfied. It is estimated that the City will spend approximately $0.5-$1.0 million in calendar year 2016 related to the above projects.

5.1.1 CSO Monitoring Plan for Outfalls 001, 002, 003 and 004

5.1.1.1 Plan Description

The City submitted a written CSO Monitoring Plan for VDEQ review on April 26, 2007. A revised plan was submitted on June 12, 2007 and approved by VDEQ on June 19, 2007. For Year 2015, sample collections were only performed at Outfall 002 (Royal Street Outfall). Samples collected from Outfall 002 during overflow events were analyzed for the parameters listed in Part I.A of the current Permit.

5.1.1.2 Summary of CSO Sampling

Sample collection and analyses were conducted at Outfall 002. The overflow samples are representative of the CSO regulator being activated during a storm event. Each collected sample was analyzed by Martel Laboratories, Inc., who is certified by the Commonwealth of Virginia and in accordance with the test methods as stated in the Permit. The table below includes a summary of samples collected for Outfall 002.

Date of CSO Event	Total Rainfall (inches)	Start of CSO Event	Start of Sample Collection	# of Samples Collected
03/26/2015	0.61	*	22:30	3
06/01/2015	0.39	15:05	06:20	3
9/29/2015	1.60	18:05	19:55	4
11/09/2015	1.42	21:55	22:00	3

*The XPSWMM model did not produce a CSO event from March 26th rainfall event.

On March 26, 2015, a rain event began at 7 p.m. and continued through 12 p.m. on March 27, 2015. The rain event produced a total of 0.61 inches at the airport with varying intensity throughout the event. The rainfall recorded at the airport was incorporated into the model did not produce an overflow start time and amount for March 26, 2016. The rain gauge used for the simulation is located at Ronald Reagan Washington National Airport approximately 3.75 miles from the CSO. As with any rain event, the distribution of rainfall is variable as was the case for this event. While the Reagan rain gauge reported 0.61" of rainfall, other rain gauges in the City reported variable rainfall ranging from 0.23" to 2.44". Therefore it is likely that more rainfall occurred in the CSO-002 sewershed then was reported at the Reagan rain gauge. The difference in possible intensities of rainfall between the two locations justifies that rainfall in Alexandria may have been characteristically different than at the airport and resulted in the sampled overflow at CSO-002.

5.2 Stormwater and *E. Coli* Loading Management

The Permit requires an annual report of the amount of stormwater not entering the CSS and/or *E. coli* loading reductions during overflow events due to the implementation of the above programs, including outfall improvements and the Combined Sewer Service Area Reduction Plan (ARP). In 2014, four (4) businesses were removed from the CSO-001 subcatchment area and 109 households removed from the CSO-003/004 subcatchment area. This resulted in approximately 1.76 million gallons of stormwater removed which is equivalent to $1.36*10^{12}$ cfu/year of *E. coli* bacteria.

In 2015, the Payne and Fayette Sewer separation project consisting of five sites of separation began. By December 2015, 3 of the separation projects were completed, resulting in 41 households and 8 businesses being separated from the CSO-003/004 subcatchment area of the CSS. To estimate the volume of

sanitary flow removed from the CSS a household flow rate of 184 gallons per day and employee flow rate of 20 gallons per day were used[1].

Progress towards compliance with section E.8 of the CSS Permit requiring "…a reduction of 5 million gallons of stormwater entering the CSS, or the *E. coli* loading CSO discharge reduction equivalent..." by the end of the permit cycle has been calculated below. In order to be consistent with the City's Long Term Control Plan Update and for consistency across the years as separation occurs, the hydrologic year of 1984 has been selected as the typical year. For more information on how 1984 was selected as the typical year for Alexandria and the reasoning for selecting a typical year, please see the *Typical Year Selection Technical Memorandum* dated September 2014.

The following information was used in the calculation of the stormwater equivalent:

Formulas: [2]

$$\log_2(E.coli\ \text{concentration}) = -0.0172 + 0.91905 * \log_2(\text{fecal coliform concentration})$$

Constants:[3]

Sanitary Fecal Coliform Concentration = 1,000,000 cfu/100 mL
Sanitary *E. coli* Concentration = 322,940 cfu/100 mL
Stormwater Fecal Coliform Concentration = 50,000 cfu/100 mL
Stormwater *E. coli* Concentration = 20,578 cfu/ 100 mL
Household Flow Rate = 184 gpd/household
Employee Flow Rate = 20 gpd/employee

CSO Characteristics for the Typical Year:

Overflow	Duration (hrs/year)	% Capture to AlexRenew
CSO-001	163.58	58.24%
CSO-002	448.42	59.59%
CSO-003	358.17	67.03%
CSO-004	287.50	93.40%

Separated Area: CSO-003/004
Households = 41

[1] Flowrates are from the *Holmes Run Trunk Sewer Capacity Improvements – Technical Memorandum*, Greeley and Hansen 2006.
[2] *E. coli* concentrations converted from fecal concentrations using the equation found on page 1-7 of the *Bacterial TMDLs for the Hunting Creek, Cameron Run, and Holmes Run Watersheds* by the Virginia Department of Environmental Quality dated November 2, 2010.
[3] Concentrations are from Table 4-4 of the *Effluent Guidelines for the Construction and Development Industry*, EPA 1999.

$$\text{Households Separated Flow} = 41 \text{ households} * 184 \frac{\text{gpd}}{\text{household}} * \frac{1 \text{ day}}{24 \text{ hours}} = 314.3 \text{ gph}$$

Businesses = 8
Employees per Business = 10

$$\text{Business Separated Flow} = 8 \text{ businesses} * 10 \frac{\text{employees}}{\text{business}} * 20 \frac{\text{gpd}}{\text{employee}} * \frac{1 \text{ day}}{24 \text{ hours}} = 66.7\text{gph}$$

$$\text{Total Flow} = 314.3\text{gph} + 66.7\text{gph} = 381.0\text{gph}$$

Removals

CSO-003 Duration of Removal =358.17 hrs/year
CSO-003 Regulator % Capture = 67.03%

$$\text{Sanitary Volume} = (1 - 67.03\%) * 358.17 \frac{\text{hours}}{\text{year}} * 381.0\text{gph} = 44{,}992 \frac{\text{gallons}}{\text{year}}$$

CSO-004 Duration of Removal = 287.50 hrs/year
CSO-004 Regulator % Capture = 93.40%

$$\text{Sanitary Volume} = (1 - 93.40\%) * 67.03\% * 287.50 \frac{\text{hours}}{\text{year}} * 381.0 \text{ gph} = 4{,}846 \frac{\text{gallons}}{\text{year}}$$

$$\text{CSO} - 003/004 \text{ Sanitary Volume} = 44{,}992 + 4{,}846 = 49{,}838 \frac{\text{gallons}}{\text{year}}$$

$$E.coli \text{ Load} = 49{,}838 \frac{\text{gal}}{\text{year}} * 322{,}940 \frac{\text{cfu}}{100\text{mL}} * \frac{3.78541 \text{ L}}{1 \text{ gal}} * \frac{1000 \text{ mL}}{1 \text{ L}} = \mathbf{6.09 * 10^{11} \frac{cfu}{year}}$$

$$\text{Stormwater Volume} = 6.09 * 10^{11} \frac{\text{cfu}}{\text{year}} * \frac{100 \text{ mL}}{20{,}578 \text{ cfu}} * \frac{1 \text{ L}}{1000 \text{ mL}} * \frac{1 \text{ gal}}{3.78541 \text{ L}} = 782{,}113 \frac{\text{gal}}{\text{year}}$$

$$= \mathbf{0.78 \frac{MG}{year}}$$

Using the typical year CSO characteristics, approximately 0.78 million gallons of stormwater per year was removed from the CSS which is equivalent to $6.09*10^{11}$ cfu/year of *E. coli* bacteria. Below is a table showing the volumes of equivalent stormwater removed resulting from CSS separation under the current VPDES Permit.

Year	Stormwater Removed (MG/yr)
2014	1.76
2015	0.78
Total	2.54

5.3 Summary of Green Infrastructure Projects

Currently, there are no major projects at City facilities planned for the forthcoming fiscal year (FY 2017). With respect to the Green Initiative, a study has been completed that evaluated the potential for green infrastructure practices in the combined sewer system. Concept designs were prepared for two of the sites that scored the highest and those projects are being moved forward for detailed design. It is anticipated that detailed design will be completed in Winter/Spring 2017.

5.4 Summary of Payne and Fayette Sewer Separation Project

Payne and Fayette Sewer Separation project design and specifications were completed in 2014 and bids for the construction proposal were submitted on February 13, 2015. The City reviewed the bids and selected Corinthian Contractors to begin construction on the separation project in June of 2015. Mobilization took place on June 1, 2015. As of December 2015, construction was complete for 3 of the 5 project sites. The remaining two projects will be completed in 2016.

5.5 Summary of Outfalls 003 and 004 Projects

In May 2002, a need for a diversion structure at CSO outfall 003 was identified and its impact to the amount of CSOs studied. Construction for the structure began at the end of 2013 and was completed in fall 2014. To assess the performance of the diversion structure, flow at both Outfall 003 and 004 was monitored for the months of April through July of 2015. Additionally, CSO Outfall 004 was studied for alternatives to improve dry weather overflow occurrences at the outfall structure (*CSO-004 Engineering Report*, October 2015). The study recommended that a 6-inch weir be installed in the structure to capture additional combined sewage and send it to the WRRF for a high level of treatment. This project was completed January 12, 2016, the total amount of stormwater volume removed as a result of this project will be included in 2016 CSO Annual Report. Requirements of Part I.E.8.e of the permit have been satisfied.

5.6 Summary of Model Updates

Since the development of the SWMM model and the XPSWMM model in the CSS, a number of projects related to the collection system have taken place in the CSS. The City routinely incorporates these projects and other system changes into the model. A discussion of these changes is provided below.

The City, or private developers on behalf of the City, have undertaken various sewer separation projects in the CSS area, as has been documented in previous CSS Annual Reports. The XPSWMM model had been updated to include the Wythe Street Partial Sewer Separation Project in the King and West area, Tanyard Ditch Relief Storm Sewer Project in the Royal Street Area, and the new developments on Cameron Street and North Henry Avenue in the King and West Area. Additionally, the Harris Teeter and James Bland projects completed in 2014 have been accounted for in the model as well. The Madden Homes (Chatham Square) project was included when the XSWMM model was developed. All of these changes within the CSS were previously included in the XPSWMM model. New separation projects including the Payne and Fayette Project will not be included in the model until the project's completion.

The model for CSO 003 was recalibrated in 2009 based on flow and rainfall monitoring collected from April 2009 – July 2009, as well as the removal of the grated connection between CSOs 003 and 004. This recalibration resulted in a decrease in overflow volume. The model was updated in 2010 to include the recalibration of CSO 004 based on flow and rainfall monitoring collected from April 2010 – August 2010. This recalibration was performed as part of a separate effort by the City. The flow monitoring for this effort included measurement of flows upstream of the existing Duke Street siphon chamber and measurement of the overflow downstream of the siphon chamber in the outfall pipe.

CSOs 001 and 002 were recalibrated as part of the City's permit reapplication in 2011. The recalibration consisted of using existing monitoring data both upstream and downstream of each outfall to ensure the model was properly predicting the number and volume of overflows. For CSO 001, some of the impervious area percentages were changed to reflect actual conditions. For CSO 002, no changes were necessary to calibrate the outfall.

In 2013, all four outfalls were recalibrated to existing meter data to account for changes made to the model in the Holmes Run sewershed. The recalibration of the outfalls consisted of minor changes to the impervious areas and slopes of nodes in the CSS portion of the model. The changes made did not significantly impact the resulting overflows at each of the outfalls.

In 2014, tailwater conditions (Hooffs Run stream elevations and tidal conditions) were applied to each of the outfalls to provide a better representation of existing conditions. Additionally, the CSO-003 regulator structure was improved to more accurately portray the increased the height of the weir resulting from the 2014 King and West regulator construction.

For fiscal year 2015, flow meters were installed at Outfall 003 and 004 to monitor flow data from April 2nd through July 31st. The results of the monitoring data were used to recalibrate the model based on the new regulator structure that had been installed for CSO-003. The CSO-004 siphon chamber was studied and resulted in the installation of a 6-inch weir in the structure to capture additional flow and send it to the treatment plant for a high level of treatment. For the 2016 CSS Annual Report, the model will be updated to incorporate the new structure.

5.7 Annual Bacteria Load Reporting

As part of the permit, the bacteria loads at each CSO outfall must be reported per section I.E.10. The volumes of overflow from the XPSWMM model data and event mean concentrations of *E. coli* established in the Hunting Creek TMDL were utilized to compute the loadings at each outfall. Note the Hunting Creek TMDL only applies to Outfalls 002, 003, and 004. The table below displays the bacteria load for the CSO outfalls.

Outfall	Volume (MG)	Event Mean Concentration for Fecal Coliform (cfu/100 mL)[1]	Event Mean Concentration for *E. coli* (cfu/100 mL)[2]	*E. coli* Bacterial Load (cfu)
CSO-001	58.8	490,848	167,914	3.737E+14
CSO-002	46.8	301,637	107,335	1.902E+14
CSO-003	14.4	153,514	57,697	3.145E+13
CSO-004	12.0	649,186	217,110	9.862E+13

[1] From Table 3-27 in the *Bacterial TMDLs for the Hunting Creek, Cameron Run, and Holmes Run Watersheds* by the Virginia Department of Environmental Quality dated November 2, 2010.

[2] *E. coli* concentrations converted from fecal concentrations using the equation found on page 1-7 of the *Bacterial TMDLs for the Hunting Creek, Cameron Run, and Holmes Run Watersheds* by the Virginia Department of Environmental Quality dated November 2, 2010.

5.8 Summary of Long Term Control Plan Update

Regulatory requirements and a need to reduce CSOs are driving the development of the LTCPU. These regulations include the VPDES Permit for the CSS, Hunting Creek Bacteria TMDL, and Federal Clean Water Act. As the LTCPU is being developed individual technical memoranda have been submitted to VDEQ for comment. In 2015 the following technical memoranda have been submitted:

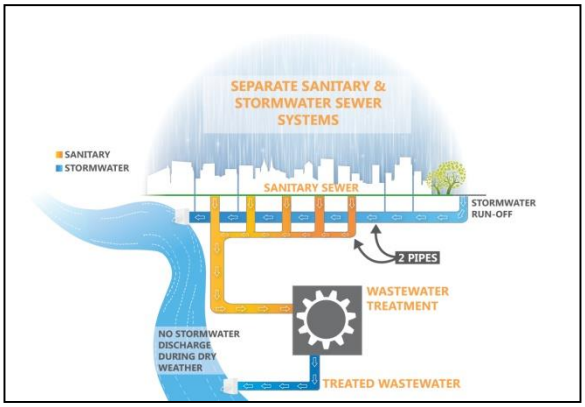
- CSS Sewershed Changes (January 2015)
- H & H Modeling (January 2015)
- Basis for Cost Estimation (October 2015)
- CSO Control Technology Screening (January 2015)
- CSO Disinfection (October 2015)
- Green Infrastructure (October 2015)
- Sewer Separation (October 2015)
- Storage Tank (October 2015)
- Storage Tunnels (October 2015)
- Evaluation Criteria (May 2015)
- Ranking and Recommendation (October 2015)
- Water Quality Modeling (October 2015)

5.9 Public Notification

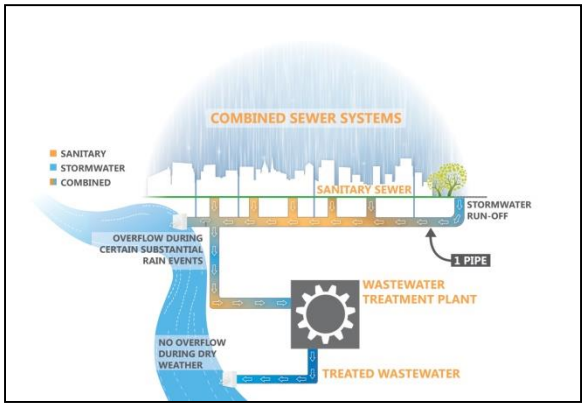
- During 2001, the City erected new public notice signs at each of the CSO outfall locations. In 2013, fulfilling requirements of the new CSS permit, new signs and pictograms were installed at each outfall. Photos of these signs are included in Appendix L.
- In 2015, on Earth Day (April 25), the City provided an informational poster on CSOs in the Office of Environmental Quality booth. Staff was on-hand to answer questions related to the combined sewer systems and a sign-up sheet for notification of future public meetings accompanied the poster. Attached in Appendix M are the advertisements for CSO-related items and Earth Day poster displayed in April 2015.
- 3 public meetings were held in 2015 that included general public information meetings regarding the City of Alexandria Combined Sewer System Long Term Control Plan Update

(LTCPU). In June 2015, a "CSS Stakeholder Group" was formed and a series of meetings covering multiple LTCPU topics were conducted and will continue through 2016. The CSS Stakeholder Group meetings included dialog between group participants and recommendations to City staff on the development of the LTCPU. Appendix N includes a list of all public and stakeholder meetings conducted by the City of Alexandria.

- More information can be obtained on the City's website at http://alexandriava.gov/Sewers. Below is a screen capture image from the City's website illustrating the two types of sewer systems.



Source: www.alexandriava.gov



Source: www.alexandriava.gov

Section 6 Summary of CSS Activities

Activities for 2015 related to CSS operations and maintenance and the Nine Minimum Controls are as summarized below.

Minimum Control	Description	Activity/Application
Operation and Maintenance	Regular sewer flushing	• Sewer siphons flushed weekly to ensure hydraulic capacity is available • Trunk sewers in CSS inspected on monthly schedules and flushed as needed • Problem grease area flushing on monthly schedule • 49,481 linear feet of sewer flushed/cleaned in CSS
	Regular Program of TV Inspection	• Annual visual inspection of CSS trunk sewers • CCTV = 10,759 linear feet
	Regular annual catch basin cleaning program	• Removal of debris from catch basins • Critical areas cleaned weekly • Non-critical areas 2-3 times / year • Inlets and catch basins cleaned = 1,200
Maximize Use of Collection System for Storage	Onsite Stormwater retention required in combined sewer area	• Required for new development by City code
Maximize Flow to the POTW	Redevelopment Separation of CSS	• No Redevelopment projects took place in the CSS Area in 2015. • Approximately 4.3 acres of CSS were separated as part of the Payne and Fayette Sewer Separation in the King and West Area that discharges to CSO-003 and 004.
	Future Redevelopment Separation of CSS	• 800 N. Washington St. (5-story hotel) and Redevelopment of Giant ABC (retail and residential) are in the preliminary stages of planning and redevelopment in the CSS Area as of December 2015. • Current Payne and Fayette sewer separation project located on Payne and Fayette streets from Cameron Street north to Oronoco Street. This project will remove approximately 90 sanitary sewer connections from the CSS when completed in 2016.
Eliminate Dry Weather Overflows (DWOs)	Diversion facilities inspected regularly & PM'd	• Monthly flap gate and diversion chamber inspections by the City of Alexandria, VA Renew Enterprises
	City maintains a 24 hour on-call response team for reported	• City Sewer Maintenance Division provides 24 hour response team

Minimum Control	Description	Activity/Application
	DWOs	
Control of Solid and Floatable Materials in CSOs	Regular sewer flushing	• See Section VII.B.2 "Operation and Maintenance"
	Hooded catch basins	• Using hooded catch basin in CSS area
	Regular leaf season pickup	• Collected 16,072 biodegradable bags to be recycled for mulch distribution Spring 2015 • Collected 17,973 cubic yards of curbside vacuumed leaves to be recycled for mulch distribution Spring 2015 • Collected 1,160 cubic yards from Park Fairfax • Total collection of 35,205 cubic yards of leaves
	Regular catch basin cleaning	• See Section VII.A Operation and Maintenance-2.a.
	Regular litter clean-up program	• Regular schedule for public litter cans, litter collection
	Regular street cleaning program	• Regular schedule for street sweeping and flushing • Approximately 1,371 linear miles cleaned
Pollution Prevention	Industrial Waste Reduction	• Encouraging industrial waste reduction through recycling and improved housekeeping
	Street Cleaning and Litter Controls	• Regular street cleaning and litter collection • See Control of Solid and Floatable Materials in CSOs
	Hazardous Waste Recycling	• Regular schedule for household hazardous waste day • HHW and Electronics recycling site is opened two days a week for residents to drop off
	General Recycling and Solid Waste Control	• Regular recycling program • Curbside single-stream recycling
	BMPs for Automotive Related Industries	• Program to promote BMP for automobile industries • Manual for automobile related industries for BMPs on City's website @ alexandriava.gov/uploadedFiles/tes/info/Automotive_BMP_manual.pdf
	Leaf Collection	• Regular program for seasonal leaf collection • See Control of Solid and Floatable Materials in CSOs
	Ordinances and Enforcement	• City Pollution Prevention Program • City codes, summons and pre-payable fines related to pollution prevention

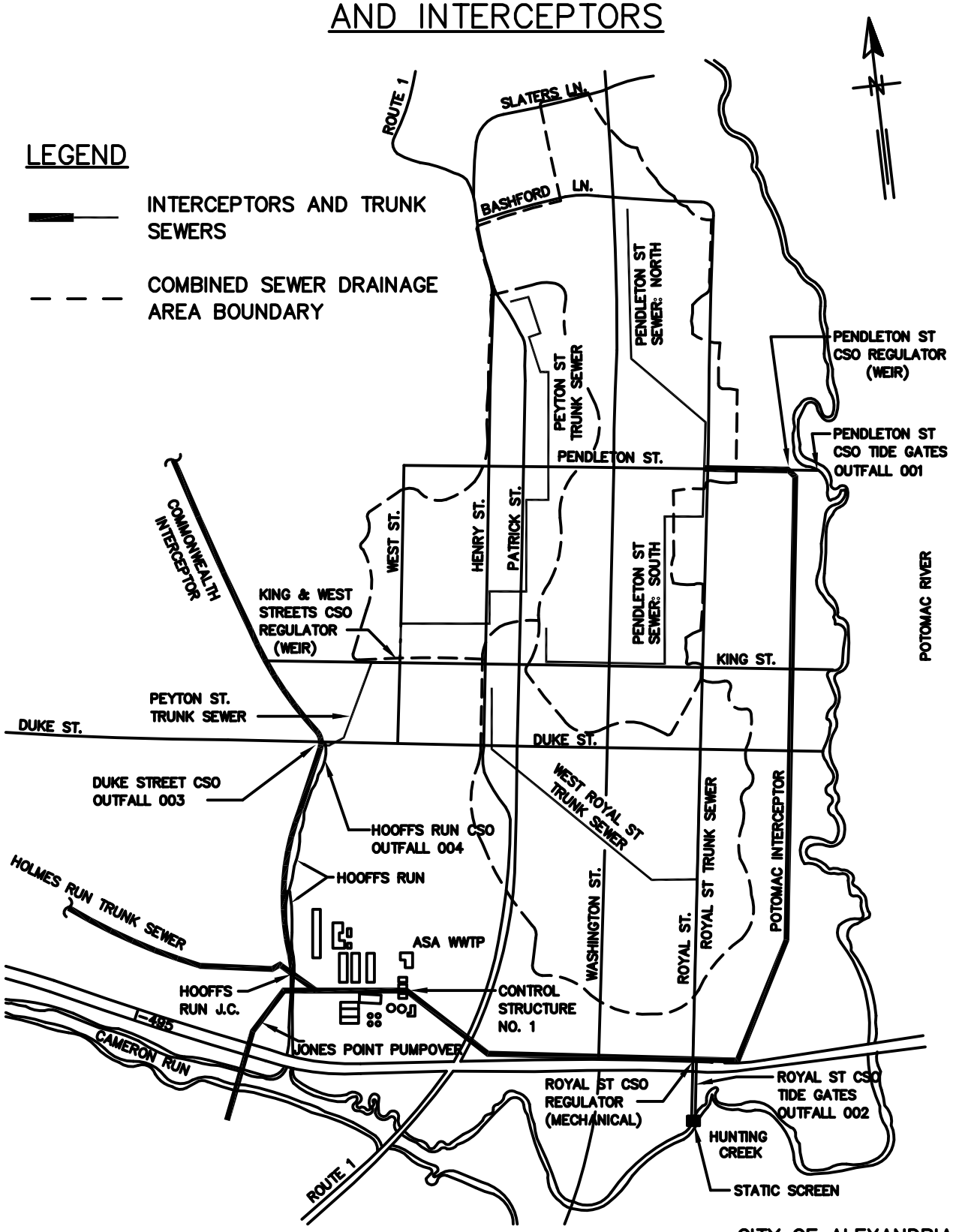
Minimum Control	Description	Activity/Application
	My City	• Internal reporting program includes "illicit discharges" as issue topic
	EIU	• Dedicated Code Enforcement Staff comprises the Environmental Industrial Unit that proactively inspects facilities and enforces the Environmental Crimes Ordinance
Public Notification	CSO Public Notice	• Public notice signs posted at CSO locations. Installations verified in 2015 that all are intact. See Appendix L • Public information on Combined Sewer Systems on City's website @ https://www.alexandriava.gov/Sewers
Monitoring		• The City has implemented a monitoring program for the CSS in accordance with Parts I.C of its VPDES Permit

LEGEND:
PM'd means performing maintenance work
CCTV means closed-circuit television inspection of the sewer.

Figures

FIGURE 1

ALEXANDRIA COMBINED TRUNK SEWERS AND INTERCEPTORS



CITY OF ALEXANDRIA
TRANSPORTATION AND ENVIRONMENTAL SERVICES
COMBINED SEWER SYSTEM
2015 ANNUAL REPORT

GREELEY AND HANSEN

FILE: X:\0057E-CSS\TO E16-01\06 General Studies - Rpts\06.01 Rpts\Annual Report\Figures\FIGURE 1 01/2015

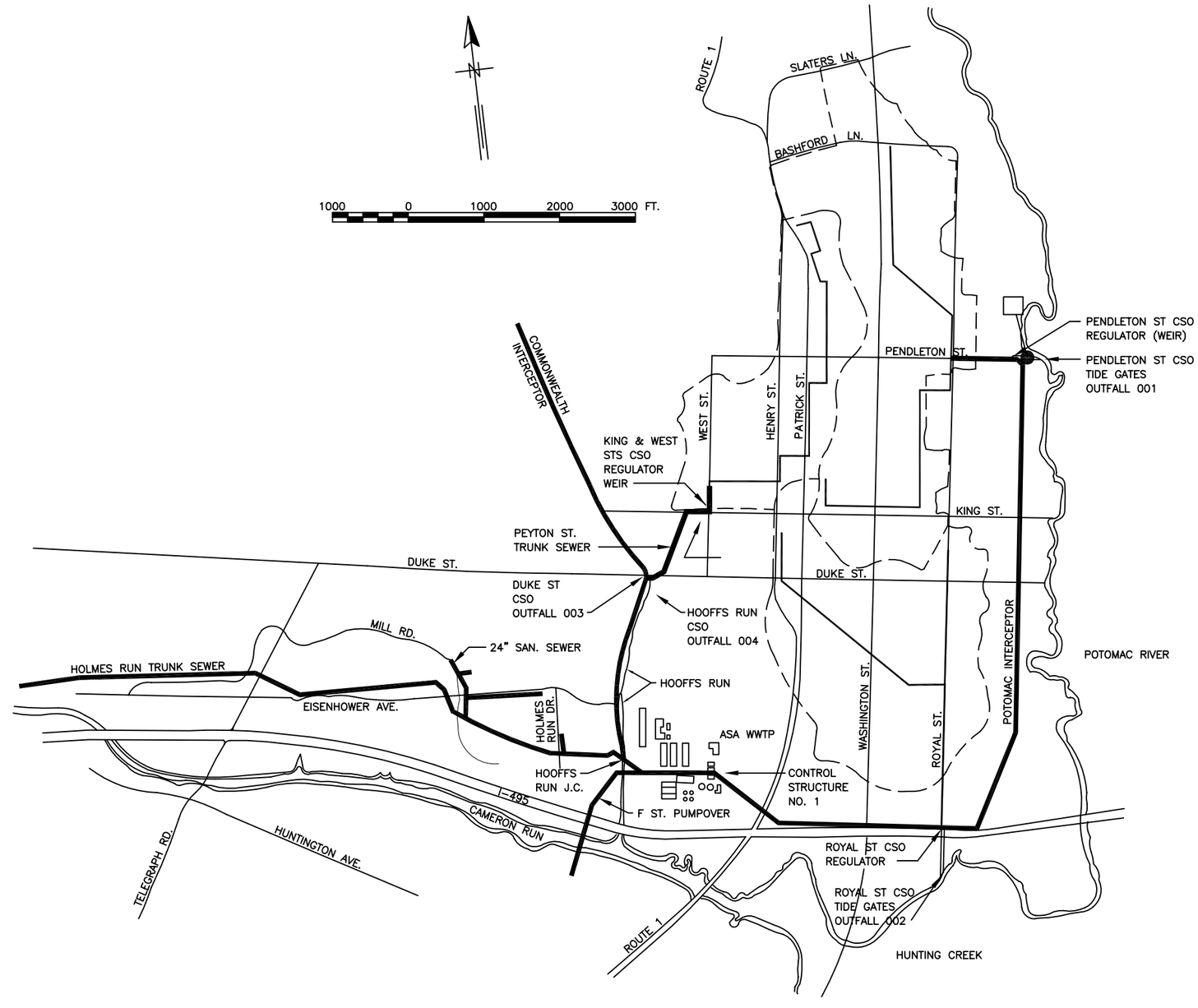
FIGURE 2

LEGEND

INTERCEPTORS AND TRUNK SEWERS

COMBINED SEWER DRAINAGE AREA BOUNDARY

SAMPLING STATION FOR PENDLETON ST. CSO



LOCATION OF SAMPLING LOCATION
OUTFALL 002

CITY OF ALEXANDRIA
TRANSPORTATION AND ENVIRONMENTAL SERVICES
COMBINED SEWER SYSTEM
2015 ANNUAL REPORT

GREELEY AND HANSEN

FILE: X:\0057E-CSS\TO E16-01\06 General Studies - Rpts\06.01 Rpts\Annual Report\Figures\FIGURE 2 01/2015

Tables

Table 1: CSO Outfall 001, Pendleton Street
2015 Rainfall and Overflow Model Summary

Date of Overflow	Storm Total (in.)	Duration of Storm (hrs.)	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
18-Jan	0.60	7.0	0.18	0.540	3.8
23-Jan - 24-Jan	1.12	13.0	0.25	1.241	4.2
20-Apr	0.88	14.0	0.19	0.431	2.1
20-Apr	0.41	10.0	0.25	0.159	0.8
30-Apr	0.54	2.0	0.42	0.919	1.9
16-May	0.62	4.0	0.60	1.421	1.4
18-May	0.76	8.0	0.70	1.862	1.4
1-Jun - 2-Jun	2.90	12.0	1.51	9.477	9.9
4-Jun	0.35	11.0	0.22	0.153	1.5
8-Jun	0.65	6.0	0.33	0.813	1.8
14-Jun	0.52	3.0	0.38	0.823	1.9
18-Jun	0.54	11.0	0.29	0.470	1.3
20-Jun	2.37	6.0	1.11	9.264	3.3
23-Jun	0.84	3.0	0.84	2.475	1.5
25-Jun	0.48	2.0	0.43	0.808	1.3
27-Jun	2.75	21.0	0.77	6.291	14.0
1-Jul	0.97	4.0	0.90	2.846	1.8
1-Jul	0.33	4	0.23	0.255	1.1
4-Jul	0.85	10.0	0.54	1.373	1.9
8-Jul	1.12	8.0	0.62	2.568	3.3
27-Jul	0.83	2.0	0.48	1.950	2.2
30-Jul	0.53	2	0.53	1.151	1.3
11-Aug	0.35	6.0	0.30	0.364	1.0
24-Aug	0.41	2.0	0.24	0.444	1.5
29-Sep	1.65	9.0	0.78	4.428	4.3
9-Oct	0.38	2.0	0.30	0.375	1.5
28-Oct - 29-Oct	0.68	28.0	0.29	0.345	1.1
9-Nov - 10-Nov	0.77	29.0	0.17	0.456	2.9
19-Nov	0.63	14.0	0.29	0.663	2.1
1-Dec	1.05	34.0	0.16	0.123	1.0
23-Dec	1.67	16.0	0.66	4.004	2.5
25-Dec	0.30	8.0	0.18	0.051	0.7
28-Dec - 29-Dec	0.73	18.0	0.15	0.251	2.4

Summary for Outfall 001

Number of Occurrences	**33**
Volume (MG)	**58.79**
Duration (hrs.)	**84.8**
Total Rainfall Causing Overflow (in):	**29.59**

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Table 2: CSO Outfall 002, Royal Street
2015 Rainfall and Overflow Model Summary

Date of Overflow	Storm Total (in.)	Duration of Storm (hrs.)	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
3-Jan - 4-Jan	0.50	19.0	0.13	0.022	3.0
18-Jan	0.60	7.0	0.18	0.513	2.6
23-Jan - 24-Jan	1.12	13.0	0.25	1.384	5.5
20-Apr	0.88	14.0	0.19	0.465	2.1
20-Apr	0.41	10.0	0.25	0.003	0.2
30-Apr	0.54	2.0	0.42	0.639	1.7
16-May	0.62	4.0	0.60	0.897	1.4
18-May	0.76	8.0	0.70	1.230	1.4
1-Jun - 2-Jun	2.90	12.0	1.51	7.753	9.7
4-Jun	0.35	11.0	0.22	0.075	0.9
8-Jun	0.65	6.0	0.33	0.683	1.5
14-Jun	0.52	3.0	0.38	0.554	1.7
18-Jun	0.54	11.0	0.29	0.291	1.3
20-Jun	2.37	6.0	1.11	7.396	3.8
23-Jun	0.84	3.0	0.84	1.660	1.6
25-Jun	0.48	2.0	0.43	0.476	1.3
27-Jun	2.75	21.0	0.77	5.497	14.0
1-Jul	0.97	4.0	0.90	2.019	1.9
1-Jul	0.33	4.0	0.23	0.113	0.7
4-Jul	0.85	10.0	0.54	1.002	1.8
8-Jul	1.12	8.0	0.62	2.139	3.3
27-Jul	0.83	2.0	0.48	1.516	2.2
30-Jul	0.53	2.0	0.53	0.677	1.2
11-Aug	0.35	6.0	0.30	0.120	0.6
24-Aug	0.41	2.0	0.24	0.299	1.1
29-Sep	1.65	9.0	0.78	4.006	4.4
1-Oct	1.93	73.0	0.12	0.116	3.4
9-Oct	0.38	2.0	0.30	0.183	1.2
29-Oct	0.68	28.0	0.29	0.144	0.8
9-Nov - 10-Nov	0.77	29.0	0.17	0.502	2.7
19-Nov	0.63	14.0	0.29	0.544	1.9
1-Dec	1.05	34.0	0.16	0.143	3.4
23-Dec	1.67	16.0	0.66	3.390	2.9
29-Dec	0.73	18.0	0.15	0.313	2.1

Summary for Outfall 002

Number of Occurrences	**34**
Volume (MG)	**46.76**
Duration (hrs.)	**88.9**
Total Rainfall Causing Overflow (in):	**31.72**

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Table 3: CSO Outfall 003, Duke Street
2015 Rainfall and Overflow Model Summary

Date of Overflow	Storm Total (in.)	Duration of Storm (hrs.)	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12-Jan	0.75	27	0.11	0.038	1.2
				0.070	3.3
18-Jan	0.60	7	0.18	0.213	3.2
23-Jan	1.12	13	0.25	0.393	5.5
21-Feb	0.80	21.0	0.11	0.092	3.3
4-Mar - 5-Mar	1.16	32.0	0.13	0.022	0.8
				0.092	4.6
14-Apr	0.64	21.0	0.10	0.033	1.3
19-Apr	0.88	14.0	0.19	0.236	6.1
20-Apr	0.41	10	0.25	0.084	1.0
30-Apr	0.54	2.0	0.42	0.236	2.1
16-May	0.62	4.0	0.60	0.296	1.4
18-May	0.76	8.0	0.70	0.372	1.4
1-Jun	2.90	12.0	1.51	1.868	12.1
4-Jun	0.35	11.0	0.22	0.315	4.3
8-Jun	0.65	6.0	0.33	0.248	5.6
14-Jun	0.52	3.0	0.38	0.219	2.1
18-Jun	0.54	11.0	0.29	0.159	1.8
20-Jun	2.37	6.0	1.11	1.488	4.4
23-Jun	0.84	3.0	0.84	0.436	1.4
25-Jun	0.48	2	0.43	0.199	1.5
27-Jun - 28-Jun	2.75	21.0	0.77	1.862	19.2
1-Jul	0.97	4.0	0.90	0.488	1.9
1-Jul	0.33	4.0	0.23	0.110	1.3
4-Jul	0.85	10.0	0.54	0.362	8.5
8-Jul	1.12	8.0	0.62	0.543	3.3
27-Jul	0.83	2.0	0.48	0.415	2.3
30-Jul	0.53	2.0	0.53	0.249	1.3
11-Aug	0.35	6.0	0.30	0.125	1.2
24-Aug	0.41	2.0	0.24	0.157	1.8
29-Sep	1.65	9.0	0.78	0.817	5.3
1-Oct - 2-Oct	1.93	73.0	0.12	0.196	5.8
				0.119	4.2
9-Oct	0.38	2.0	0.3	0.140	1.8
28-Oct - 29-Oct	0.68	28.0	0.29	0.013	0.6
				0.129	1.3
9-Nov - 10-Nov	0.77	29.0	0.17	0.215	3.8
19-Nov	0.63	14.0	0.29	0.209	2.4
1-Dec	1.05	34.0	0.16	0.210	7.2
23-Dec	1.67	16.0	0.66	0.714	5.9
28-Dec - 29-Dec	0.73	18.0	0.15	0.167	3.3

Summary for Outfall 003

Number of Occurrences	**41**
Volume (MG)	**14.35**
Duration (hrs.)	**150.8**
Total Rainfall Causing Overflow (in):	**34.57**

Table 4: CSO Outfall 004, Hooffs Run
2015 Rainfall and Overflow Model Summary

Date of Overflow	Storm Total (in.)	Duration of Storm (hrs.)	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
3-Jan	0.50	19.0	0.13	0.043	1.1
12-Jan	0.75	27.0	0.11	0.023	0.7
18-Jan	0.60	7.0	0.18	0.187	3.4
23-Jan	1.12	13.0	0.25	0.311	5.1
21-Feb	0.80	21.0	0.11	0.029	0.8
5-Mar	1.16	32.0	0.13	0.038	1.1
26-Mar	0.61	17.0	0.15	0.011	0.3
14-Apr	0.64	21.0	0.1	0.004	0.2
20-Apr	0.88	14.0	0.19	0.125	2.6
20-Apr	0.41	10.0	0.25	0.054	1.2
30-Apr	0.54	2.0	0.42	0.170	2.3
16-May	0.62	4.0	0.60	0.216	2.3
18-May-19-May	0.76	8.0	0.7	0.265	2.3
21-May	0.33	8.0	0.14	0.021	0.6
1-Jun - 2-Jun	2.90	12.0	1.51	1.867	10.7
4-Jun	0.35	11.0	0.22	0.122	2.4
8-Jun	0.65	6.0	0.33	0.164	2.5
14-Jun	0.52	3.0	0.38	0.160	2.3
18-Jun	0.54	11.0	0.29	0.116	2.1
20-Jun	2.37	6.0	1.11	1.865	5.0
23-Jun	0.84	3.0	0.84	0.351	2.6
25-Jun	0.48	2.0	0.43	0.151	2.2
27-Jun	2.75	21.0	0.77	1.407	15.7
1-Jul	0.97	4.0	0.9	0.381	2.6
1-Jul	0.33	4.0	0.23	0.079	1.6
4-Jul	0.85	10.0	0.54	0.044	1.2
				0.231	2.6
8-Jul	1.12	8.0	0.62	0.440	4.0
27-Jul	0.83	2.0	0.48	0.315	3.0
30-Jul	0.53	2.0	0.53	0.170	2.1
11-Aug	0.35	6.0	0.3	0.060	1.3
24-Aug	0.41	2.0	0.24	0.113	2.0
29-Sep	1.65	9.0	0.78	0.830	5.7
1-Oct	1.93	73.0	0.12	0.079	2.0
				0.071	1.9
9-Oct	0.38	2.0	0.3	0.104	1.9
28-Oct	0.68	28.0	0.29	0.074	1.5
9-Nov	0.77	29.0	0.17	0.172	3.4
19-Nov	0.63	14.0	0.29	0.155	2.7
1-Dec	1.05	34.0	0.16	0.088	2.1
				0.0015	0.1
23-Dec	1.67	16.0	0.66	0.7059	4.4
25-Dec	0.30	8.0	0.18	0.032	0.8
28-Dec	0.73	18.0	0.15	0.117	2.7

Summary for Outfall 004

Number of Occurrences	**44**
Volume (MG)	**11.96**
Duration (hrs.)	**118.9**
Total Rainfall Causing Overflow (in):	**36.32**

Table 5
Summary of Modeled Results for Alexandria Combined Sewer Overflows 1997-2015

	1997	1998	1999	2000	2001	2002	2003	2004 [1]	2005	2006	2007	2008	2009 [2]	2010 [3]	2011	2012 [4]	2013 [5]	2014	2015 [6]
Total Rainfall:	33.82	35.94	40.35	38.59	29.95	33.17	59.12	42.36	41.63	56.05	32.94	46.04	45.34	39.69	40.11	32.06	44.30	42.73	44.16
CSO 001 Pendleton Street:																			
Number of Occurrences:	27	28	27	41	23	28	48	30	26	28	22	31	27	32	30	29	43	46	33
Volume (MG):	24.23	23.68	48.07	39.69	21.03	23.31	69.45	40.82	44.26	61.71	23.61	49.99	20.26	31.43	35.21	33.62	77.55	59.03	58.79
Average Volume (MG):	0.9	0.8	1.8	1.0	0.9	0.8	1.4	1.4	1.7	2.2	1.1	1.6	0.8	1.0	1.2	1.2	1.8	1.3	1.8
Duration (hrs.):	72	74	81	98	52	76	137	99	137	106	84	128	93	95	66	90	192	216	85
Average Duration (hrs.):	2.7	2.6	3.0	2.4	2.3	2.7	2.9	3.3	5.3	3.8	3.8	4.1	3.4	3.0	2.2	3.1	4.5	4.7	2.6
Total Rainfall Causing Overflow (in):	22.39	26.48	28.65	31.19	17.99	24.49	48.02	31.73	32.25	37.13	24.28	36.14	26.52	32.57	30.05	23.12	34.00	37.55	29.59
CSO 002 Royal Street:																			
Number of Occurrences:	58	46	56	58	49	47	75	47	38	49	35	45	48	41	25	37	43	44	34
Volume (MG):	41.79	41.70	62.80	53.49	32.75	39.22	89.25	74.08	80.66	99.19	52.20	87.85	50.61	59.32	31.27	36.31	36.99	34.80	46.76
Average Volume (MG):	0.7	0.9	1.1	0.9	0.7	0.8	1.2	1.6	2.1	2.0	1.5	2.0	1.1	1.4	1.3	1.0	0.9	0.8	1.4
Duration (hrs.):	252	253	256	215	187	224	356	210	238	287	202	248	242	227	47	65	189	291	89
Average Duration (hrs.):	4.3	5.5	4.6	3.7	3.8	4.8	4.7	4.5	6.3	5.9	5.8	5.5	5.0	5.5	1.9	1.8	4.4	6.6	2.6
Total Rainfall Causing Overflow (in):	31.21	32.94	38.61	36.18	25.03	33.35	55.86	39.95	37.83	45.13	29.04	41.5	39.88	36.42	26.17	27.4	33.47	37.71	31.72
CSO 003 Duke Street:																			
Number of Occurrences:	19	24	25	38	19	24	41	42	35	45	28	42	48	41	67	63	43	43	41
Volume (MG):	9.62	8.82	22.50	15.34	8.08	8.65	30.52	34.78	36.79	50.64	21.23	41.74	14.83	21.02	36.67	38.77	18.82	13.06	14.35
Average Volume (MG):	0.5	0.4	0.9	0.4	0.4	0.4	0.7	0.8	1.1	1.1	0.8	1.0	0.3	0.5	0.5	0.6	0.4	0.3	0.4
Duration (hrs.):	50	51	66	73	42	49	108	175	201	220	153	198	203	315	356	329	188	143	151
Average Duration (hrs.):	2.6	2.1	2.6	1.9	2.2	2.0	2.6	4.2	5.7	4.9	5.5	4.7	4.2	7.7	5.3	5.2	4.4	3.3	3.7
Total Rainfall Causing Overflow (in):	17.49	24.67	27.27	30.31	15.43	22.43	42.15	36.88	36.87	44.11	27.24	40.94	38.20	36.24	39.15	28.82	33.87	36.47	34.57
CS0 004 Hooffs Run:																			
Number of Occurrences:	0	0	0	0	0	0	0	15	11	10	4	10	2	36	20	48	38	39	44
Volume (MG):	0	0	0	0	0	0	0	0.91	0.09	0.19	0.07	0.18	0.01	8.81	9.63	4.12	3.55	3.20	11.96
Average Volume (MG):	0	0	0	0	0	0	0	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.5	0.1	0.1	0.1	0.3
Duration (hrs.):	0	0	0	0	0	0	0	35	38	24	20	23	2.0	398	237	183	158	345	119
Average Duration (hrs.):	0	0	0	0	0	0	0	2.3	3.5	2.4	5.0	2.3	1.0	11.1	11.9	3.8	4.1	8.8	2.7
Total Rainfall Causing Overflow (in):	0	0	0	0	0	0	0	17.35	22.43	20.29	6.96	19.46	3.03	34.7	22.42	30.85	29.88	35.3	36.32
CSO Average, Each Event:																			
Cumulative Overflow Volume (MG):	2.1	2.1	3.8	2.3	2.0	2.0	3.3	3.8	4.9	5.4	3.3	4.6	2.1	3.2	3.5	2.8	3.2	2.5	3.8
Average Duration (hrs.):	3.2	3.4	3.4	2.7	2.8	3.2	3.4	3.6	5.2	4.2	5.0	4.2	3.4	6.8	5.3	3.5	4.3	5.9	2.9

[1] Note: Prior to 2004, the Sewer Overflow Model (SOM) was used to estimate annual overflows. Beginning in 2004, the system was modeled using PCSWMM RUNOFF, TRANSPORT, and EXTRAN.

[2] Note: The model was recalibrated in 2009 (using ASA flows and King / West CSS area)

[3] Note: The model was recalibrated in 2010 using monitored flows at CSO-004 as well as survey data collected as part of a separate effort.

[4] Note: The model was updated to XPSWMM for the 2012 annual report. Recalibration was performed on all 4 CSOs during the update

[5] Note: Recalibration was performed on all 4 CSOs using existing meter data

[6] Note: Recalibration was performed on CSO 003 and CSO 004 as part of the flow metering efforts in 2015.

Appendix A

Summary of Storm Events and Sampling Events for CSO-002

Appendix A.1: Summary of Storm Events and Sampling Events for CSO 002

			Storm Duration			CSO Duration							
Date(s) of Event	Rainfall (in)	Peak Intensity (in/hr)	Start	End	Duration (hours)	Start	End	Duration (hours)	Outfall Samples Taken?	# of Samples Collected	Start	End	Duration (hours)
3/26/2015	0.61	0.15	3/26/2015 19:00	3/27/2015 12:00	17	*	*	*	YES	3	3/26/15 22:30	3/26/15 23:30	1
6/1/2015	2.9	1.51	6/1/2015 16:45	6/2/2015 2:25	12	6/1/2015 16:45	6/2/2015 2:25	9.67	YES	3	6/1/15 16:45	6/2/15 2:25	1
9/29/2015	1.65	0.78	9/29/2015 13:00	9/29/2015 22:00	9	9/29/2015 18:20	9/29/2015 22:45	4.42	YES	4	9/29/15 18:20	9/29/15 22:45	2
11/9/2015	0.77	0.17	11/9/2015 16:00	11/10/2015 21:00	29	11/9/2015 22:35	11/10/2015 1:15	2.67	YES	3	11/9/15 22:35	11/10/15 1:15	1

* Value not available based on recorded rainfall values

Appendix A.2: Outfall 002 Overflow Sampling Results

				Field Data																
Date	Time	Time Step	Total Time	Temp	pH	DO	*E.coli*	Fecal Col.	Total Coli	CBOD5	TP	TKN	TSS	NH_3-N	NO_3-NO_2-N	TN	Chloride	Copper	Zinc	Oil/Grease
				Field	Field	Field	SM 9223B	SM 9221E	SM 9223B	SM 5210B	SM 4500P-E	SM 4500NH3-C	SM 2540D	SM 4500NH3-C	SM 4500N03-H	Calc	SM 4500CI-E	EPA 200.8	EPA 200.8	EPA 1664
	hh:mm	min	hr	°C		mg/L	MPN/100 mL	MPN/100 mL	MPN/100 mL	mg/L	mg/L	mg/L	mg/L	mg/L N	mg/L N	mg/L	mg/L	µg/L	µg/L	mg/L
3/26/2015	22:30	0	0.0	14.2	6.62	7.43	13,900	32,000	479,400	77	2.7	12	320	3	0.94	13	110	140	310	24
3/26/2015	23:00	30	0.5	14.1	6.23	8.67	307,600	11,000	1,986,300	58	1.2	5.7	800	1.3	0.63	6.3	64	120	370	14
3/26/2015	23:30	60	1.0	13.9	6.25	8.06	613,100	11,000	1,299,700	46	1.1	4.8	190	1	0.61	5.4	72	67	250	12
6/1/2015	18:20	0	0.0	26.6	6.80	6.42	155,300	>= 160000	1,553,100	140	3.8	12	220	1	1	13	21	99	300	22
6/1/2015	18:50	30	0.5	24.7	8.51	7.10	61,300	24,000	1,119,900	14	0.42	2.2	87	0.4	0.54	2.7	5.3	42	110	10
6/1/2015	19:20	60	1.0	24.3	6.59	6.29	72,700	35,000	435,200	9	0.47	2.1	88	0.4	0.88	3	13	43	120	6
9/29/2015	19:55	0	0.0	24.7	6.36	8.62	56,500	79,000	1,413,600	21	0.45	3.4	65	0.4	0.55	4	8.6	63	27	7
9/29/2015	20:25	30	0.5	24.5	5.98	8.86	49,600	49,000	1,046,200	9	0.26	1.7	41	<0.2	0.44	2.1	5.3	33	93	<5
9/29/2015	20:55	60	1.0	24.5	5.98	7.87	81,600	130,000	81,600	10	0.27	0.9	30	0.5	0.42	1.3	5.7	30	81	<5
9/29/2015	21:25	120	1.5	24.1	6.23	8.57	31,800	49,000	31,800	4	0.38	1.3	55	<0.2	0.41	1.7	2.9	22	81	<5
11/9/2015	22:00	0	0.0	13.3	6.30	10.02	307,600	350,000	>=2420000	36	0.85	4.6	70	1.1	0.44	5	8.9	41.3	112	11
11/9/2015	22:30	30	0.5	12.7	6.90	10.80	60,900	31,000	816,400	13	0.5	2.4	28	0.7	0.3	2.7	6.2	30.9	77.1	10
11/9/2015	23:00	60	1.0	13.1	6.20	10.20	344,800	170,000	1,203,300	12	0.55	2.4	26	1	0.33	2.7	7.6	25.1	58	8

Note:

Sampling analytical testing conducted by Martel Laboratories, Inc.

NA = Sample was unable to be tested due to issues during transport

Appendix B

City of Alexandria, VA Outfall and Diversion Structure Inspection Forms

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☒ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection January 16, 2015
Performed By Melanie Mason Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☒ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☒ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☒ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☒ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☒ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☒ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection January 23 2015
Performed By Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 2/13/2013
Performed By Melanie Mann
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 2/20/2015
Performed By Melanie Mayer (Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 3/18/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 3/30/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 4/16/2015

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 4/22/15
Performed By Felipe Fp
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: couldn't see; high tide

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 5/4/15
Performed By Mahjan Saleh Mafsa
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

INTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 5/26/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 6/11/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 6/17/2015

Performed By Felipe Jo (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 7/16/2015
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: high tide can't see

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 7/17/15
Performed By Felipe Jp
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection Felipe Ip 8/14/15
Performed By _____
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 8/18/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 9/9/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☑ Tide Gate Structural Condition Other – Describe: can't see high tide.

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☒ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 9/15/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☒ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☒ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☒ Tide Gate Structural Condition Other – Describe: can't see high tide

☒ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☒ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☒ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 10/15/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 10/21/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 11/4/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: can't see high tide.

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 11/17/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☑ Tide Gate Structural Condition Other – Describe: can't see high tide

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 12/7/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☑ 001 ☐ 002 ☐ 003 ☐ 004

Date of Inspection 12/16/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☑ Tide Gate Structural Condition Other – Describe: can't see due to high tide

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection January 16, 2015
Performed By Melanie Nason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection January 23, 2015
Performed By Melanie Mason · Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) ~10 gpm
☑ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 2/13/2015
Performed By Melanie Mason (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 2/23/2015
Performed By Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 3/18/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 3/30/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 4/16/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal

☑ Tide Gate Obstructed / Open – Describe: Saw tree branch, emailed Khalil & cc Derek Claytor with pictures.

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 4/22/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 05/04/15
Performed By Mahjan Saleh Moff
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☑ Tide Gate Obstructed / Open – Describe: Tree branch, emailed Khalil
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

INTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 5/26/15
Performed By Felipe Fo
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 6/11/2015

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 6/17/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 7/16/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 7/17/15

Performed By Felipe Jp
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____

- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____

- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____

- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____

- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____

- ☐ DWO Occurring - Describe: _____

- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____

- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 8/14/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
☑ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 8/18/15

Performed By Felipe Tp (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 9/9/2015

Performed By Felipe Ip. (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 9/15/15

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm.

☑ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 10/15/2015
Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 10/21/15
Performed By Felipe Jr. (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 11/3/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
☑ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 11/17/15
Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 12/7/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☑ 002 ☐ 003 ☐ 004

Date of Inspection 12/16/2015

Performed By Felipe Jo (Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☑ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) < 10 gpm
- ☑ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection January 16, 2015
Performed By Melanie Marin Melanie Marin
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: n/a

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: n/a

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection January 23, 2015
Performed By Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 2/13/2015
Performed By Melanie Wayne Alfalan Chen
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☐ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 2/23/2015
Performed By Melanie Mason
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 3/18/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 3/30/2015

Performed By Felipe Tp (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 4/16/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☐ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 4/22/15
Performed By Felipe F. (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 5/4/15
Performed By Mahjun Saleh
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: N/A

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

INTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 5/26/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 6/11/2015
Performed By Felipe Ip FIP
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 6/17/2015

Performed By Felipe Ipe (Print & Sign Name) Ipe

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 7/16/2015
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: N/A.

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 7/17/15

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 8/14/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☑ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: _____
- ☑ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: _____
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☐ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: N/A
- ☐ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: N/A
- ☐ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 8/18/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 9/9/2015

Performed By Felipe Fe (Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A.

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 9/15/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: N/A.

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: N/A.

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 10/15/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 10/21/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 11/4/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 11/17/15
Performed By Felipe Jp
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 12/7/2015
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☐ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # ~~[illegible]~~

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☑ 003 ☐ 004

Date of Inspection 12/16/2015

Performed By Felipe Jp Jp
(Print & Sign Name)

CONDITION OBSERVED

☑ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: _____

☑ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: _____

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☐ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: N/A

☐ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: N/A

☐ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection January 16, 2015
Performed By Melanie Nasar
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: n/A

☐ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: n/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection January 23, 2015
Performed By Melanie Mason [signature]
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: n/a
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: n/a
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☑ Tide Gate Obstructed / Open – Describe: trash/rags propping gate open
- ☐ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☑ Additional Comments: DWO not occurring as tide gate does not Regulate flow

MAINTENANCE ACTIVITIES

- ☐ No Maintenance Required
- ☑ Yes – Describe: Remove debris
- ☐ Cityworks Service Request # 73771

MAINTENANCE COMPLETED

- ☑ Yes - Date Maintenance Performed: 1/29/2015

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 2/13/2015
Performed By Melanie Wason
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: n/A

☐ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: n/a

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 2/23/2015
Performed By Melanie Maier (Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: n/a
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: n/a
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☑ Tide Gate Obstructed / Open – Describe: trash trap propping gate open
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☑ Additional Comments: DWO not occurring as tide gate does not regulate flow

MAINTENANCE ACTIVITIES

- ☐ No Maintenance Required
- ☑ Yes – Describe: Remove debris
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 3/18/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 3/30/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 4/16/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 4/22/15
Performed By Felipe Fe
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 5/4/15
Performed By Mahjan Saleh Mofer
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 5/18/15
Performed By Felipe
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 6/11/2015
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 6/17/2015
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal
☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal
☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
☐ Intrusion Rate Within Manufacturer's Specifications*
☐ Intrusion Rate Not Within Manufacturer's Specifications*
☑ Tide Gate Structural Condition Normal
☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal
☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition
☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required
☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 7/16/2015

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 7/17/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 8/14/15

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 8/18/15

Performed By Felipe Tp (Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 9/9/2015

Performed By Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A.
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A.
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 9/15/15

Performed By Felipe Ig (Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 10/15/2015

Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

☐ Diversion Dam Structural Condition Normal

☐ Diversion Dam Structural Condition Other – Describe: N/A

☐ Diversion Dam Clean & Functioning Normal

☐ Diversion Dam Debris Build-Up – Describe: N/A

☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____

☐ Intrusion Rate Within Manufacturer's Specifications*

☐ Intrusion Rate Not Within Manufacturer's Specifications*

☑ Tide Gate Structural Condition Normal

☐ Tide Gate Structural Condition Other – Describe: _____

☑ Tide Gate Clean & Functioning Normal

☐ Tide Gate Obstructed / Open – Describe: _____

☑ CSO Signage in Good Condition

☐ CSO Signage Condition Other – Describe: _____

☐ DWO Occurring - Describe: _____

☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

☑ No Maintenance Required

☐ Yes – Describe: _____

☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 10/21/15
Performed By Felipe Jr
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 11/4/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 11/17/15
Performed By Felipe Ip
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection: 12/7/2015

Performed By: Felipe Ip (Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☐ Tide Gate Clean & Functioning Normal
- ☑ Tide Gate Obstructed / Open – Describe: leaves trash popping gate opened; reported to maintenance. Khalid Wood.
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☐ No Maintenance Required
- ☐ Yes – Describe: _____
- ☑ Cityworks Service Request # Work order # 97063

MAINTENANCE COMPLETED

- ☑ Yes - Date Maintenance Performed: 12/8/2015 por Khalid Wood

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

City of Alexandria, Virginia
Transportation & Environmental Services

CSS Diversion Structure and Tide Gate Inspection Log

CSS Outfall # ☐ 001 ☐ 002 ☐ 003 ☑ 004

Date of Inspection 12/16/2015

Performed By Felipe Jp
(Print & Sign Name)

CONDITION OBSERVED

- ☐ Diversion Dam Structural Condition Normal
- ☐ Diversion Dam Structural Condition Other – Describe: N/A
- ☐ Diversion Dam Clean & Functioning Normal
- ☐ Diversion Dam Debris Build-Up – Describe: N/A
- ☐ Intrusion Observed - If So, Visually Estimated Intrusion Rate (Gal/Min) _____
- ☐ Intrusion Rate Within Manufacturer's Specifications*
- ☐ Intrusion Rate Not Within Manufacturer's Specifications*
- ☑ Tide Gate Structural Condition Normal
- ☐ Tide Gate Structural Condition Other – Describe: _____
- ☑ Tide Gate Clean & Functioning Normal
- ☐ Tide Gate Obstructed / Open – Describe: _____
- ☑ CSO Signage in Good Condition
- ☐ CSO Signage Condition Other – Describe: _____
- ☐ DWO Occurring - Describe: _____
- ☐ Additional Comments: _____

MAINTENANCE ACTIVITIES

- ☑ No Maintenance Required
- ☐ Yes – Describe: _____
- ☐ Cityworks Service Request # _____

MAINTENANCE COMPLETED

- ☐ Yes - Date Maintenance Performed: _____

*The maximum allowable intrusion rate for CSS 001 is 32 gpm

Appendix C

Alexandria Renew Enterprises Inspection and Maintenance Forms

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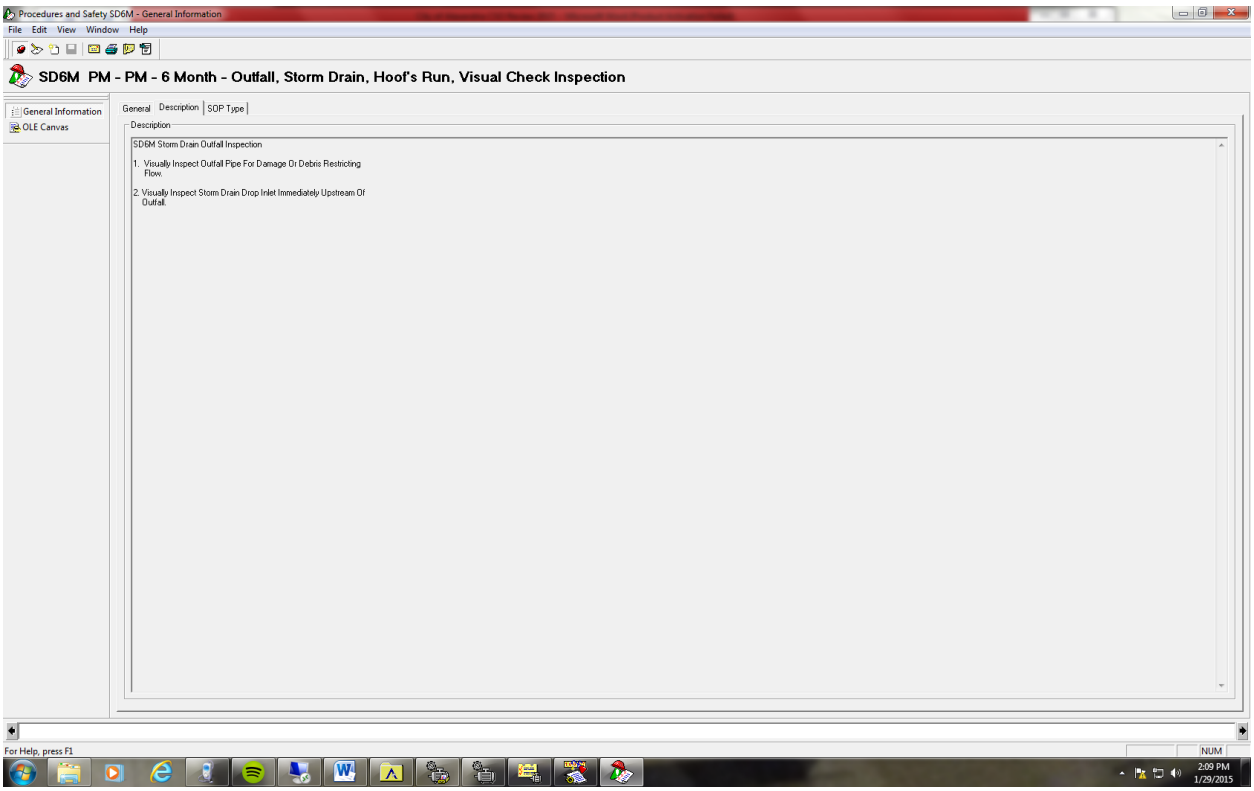
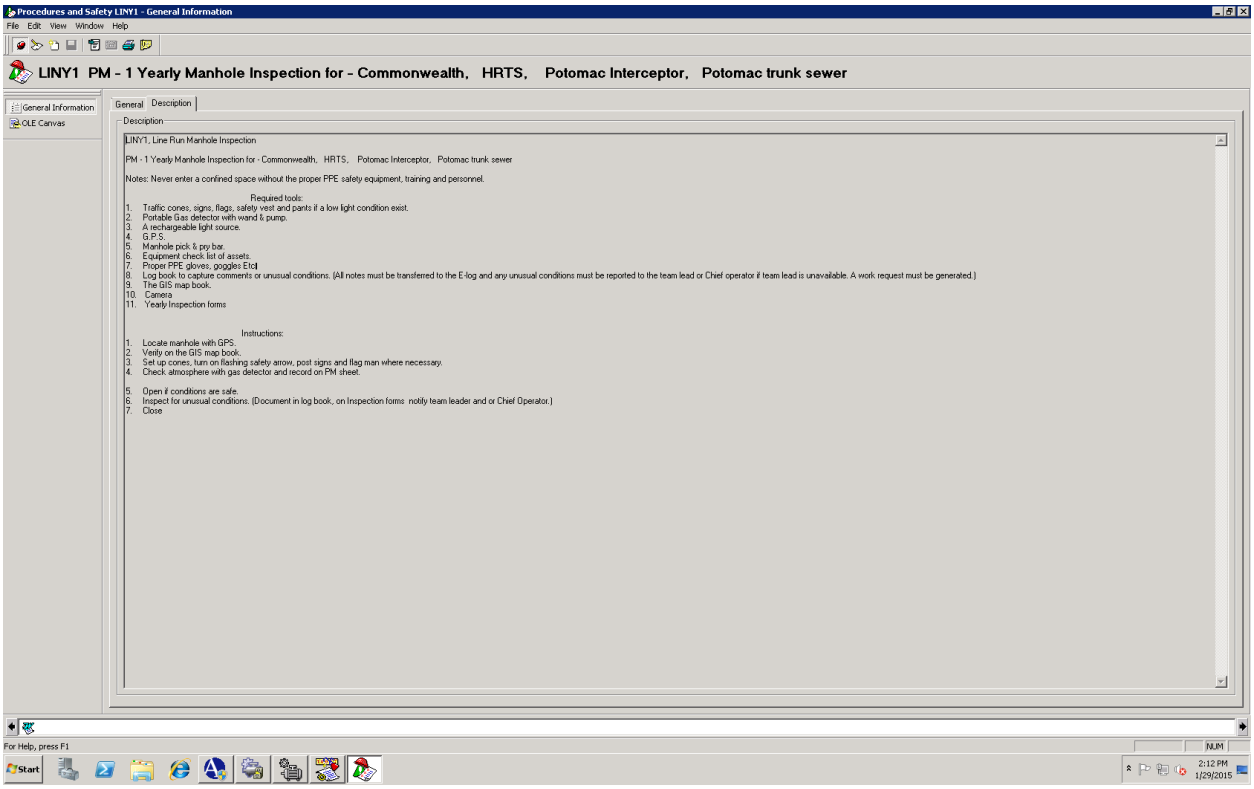
List of Employee and Training

Last name	First name	Start date	End date	Course	Classid	Enrstat	Employee #	Level1	Level2	Jobtitle	Course Description
Clinkscales	James	7/27/2015	7/27/2015	EMS 15-036	4010	COMP	1695	Operations	"E" Shift	Operations Technician	Maintain Collection Syst
Hymes	Lee	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	4204	Operations	"C" Shift	Operations Technician	Maintain Collection Syst
Wright, Jr.	Earl	8/19/2015	8/19/2015	EMS 15-036	3988	COMP	9882	Operations	"D" Shift	Operations Technician	Maintain Collection Syst
Tompkins	Paul	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	8875	Operations	"C" Shift	Operations Technician	Maintain Collection Syst
Rexrode	Cindy	7/27/2015	7/27/2015	EMS 15-036	4010	COMP	7352	Operations	"B" Shift	Operations Technician	Maintain Collection Syst
Jackson	Ronald	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	4276	Operations	"C" Shift	Operations Technician	Maintain Collection Syst
Coleman, Jr	Lewis	8/19/2015	8/19/2015	EMS 15-036	3988	COMP	1731	Operations	"D" Shift	Operations Technician	Maintain Collection Syst
Coleman, Jr	Lewis	7/22/2015	7/22/2015	EMS 15-036	4114	COMP	1731	Operations	"D" Shift	Operations Technician	Maintain Collection Syst
Ayala	Andy	7/22/2015	7/22/2015	EMS 15-036	4114	COMP	41	Operations	"E" Shift	Apprentice-WW Operator	Maintain Collection Syst
Yates	William	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	9925	Operations	"C" Shift	Shift Leader	Maintain Collection Syst
Mason	Robert	8/19/2015	8/19/2015	EMS 15-036	3988	COMP	5624	Operations	"D" Shift	Operations Technician	Maintain Collection Syst
Mattson	Kenneth	7/22/2015	7/22/2015	EMS 15-036	4114	COMP	5665	Operations	"E" Shift	Operations Technician	Maintain Collection Syst
Hines	Mark	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	3961	Operations	"C" Shift	Operations Technician	Maintain Collection Syst
Silas	Jasmine	8/25/2015	8/25/2015	EMS 15-036	4130	COMP	43	Operations	"C" Shift	Apprentice-WW Operator	Maintain Collection Syst
Latifi	Syed	7/27/2015	7/27/2015	EMS 15-036	4010	COMP	49341	Operations	"B" Shift	Operations Technician	Maintain Collection Syst
Everette	Rickie	8/19/2015	8/19/2015	EMS 15-036	3988	COMP	2673	Operations	"D" Shift	Shift Leader	Maintain Collection Syst
Andrew	Marcus	7/22/2015	7/22/2015	EMS 15-036	4114	COMP	39	Operations	"E" Shift	Apprentice-WW Operator	Maintain Collection Syst
Bond	Ronnie	7/27/2015	7/27/2015	EMS 15-036	4010	COMP	1021	Operations	"B" Shift	Operations Technician	Maintain Collection Syst
Singleton	Eugene	7/22/2015	7/22/2015	EMS 15-036	4114	COMP	8195	Operations	"B" Shift	Shift Leader	Maintain Collection Syst
Campbell	Wayne	8/19/2015	8/19/2015	EMS 15-036	3988	COMP	1482	Operations	"D" Shift	Operations Technician	Maintain Collection Syst
Hathcock	Richard	4/24/2014	4/24/2014	EMS 14-028	3599	COMP	3773	Maintenance	B Team	Maintenance Technician	Maintaining the Collectin
Disney	Dana	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	2237	Operations	"E" Shift	Operations Technician	Maintaining the Collectin
Duncan	Eugene	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	2402	Maintenance	A Team	General Laborer	Maintaining the Collectin
Rodriguez-Cara	Ralph	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	29	Maintenance	C Team	Mechanic-in-Training	Maintaining the Collectin
Welsh	Oliver	4/24/2014	4/24/2014	EMS 14-028	3599	COMP	9437	Maintenance	B Team	Maintenance Technician	Maintaining the Collectin
Richardson	Ashley	4/24/2014	4/24/2014	EMS 14-028	3599	COMP	30	Maintenance	B Team	Apprentice-WW Mechanic	Maintaining the Collectin
Grady	Wilmer	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	3413	Maintenance	C Team	Apprentice-WW Mechanic	Maintaining the Collectin
Coleman, Jr	Lewis	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	1731	Operations	"D" Shift	Operations Technician	Maintaining the Collectin
Smith	Charles	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	8262	Maintenance	C Team	Apprentice-WW Mechanic	Maintaining the Collectin
Alsop	Mark	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	194	Maintenance	C Team	Apprentice-CST/Electrical	Maintaining the Collectin
Lee	Young Ju	4/21/2014	4/21/2014	EMS 14-028	3618	COMP	31	Maintenance	A Team	Mechanic-in-Training	Maintaining the Collectin
Dyson	Patrick	4/24/2014	4/24/2014	EMS 14-028	3599	COMP	2456	Maintenance	B Team	Control Systems Tech	Maintaining the Collectin
Housden	Tommy	4/24/2014	4/24/2014	EMS 14-028	3599	COMP	4077	Maintenance	B Team	Control Systems Tech	Maintaining the Collectin

SOP and Safety Instructions





Manhole GIS #8681 Potomac Interceptor

Entity number PTI-28-MH

Entity PTI-28-MH - Activity History

File Edit View Window Help

[7] PTI-28-MH
Manhole GIS #8681 Potomac Interceptor

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
602445	1	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	5/28/2014 7:05 AM	Yes	5/28/2014 7:04 AM	Duncan, Eugene	No	ARenew
603343	1	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	7/14/2014 7:51 AM	Yes	7/14/2014 7:51 AM	Lee, Joshua	No	ARenew
604240	1	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	8/14/2014 11:57 AM	Yes	8/14/2014 11:57 AM	Rodriguez-Caraballo, Ralph	No	ARenew
604829	1	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	10/7/2014 6:03 AM	Yes	10/7/2014 6:03 AM	Lee, Joshua	No	ARenew
605935	4	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	11/18/2014 2:19 PM	Yes	11/18/2014 2:19 PM	Lee, Joshua	No	ARenew
606837	1	PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	1/8/2015 8:29 AM	Yes	1/8/2015 8:29 AM	Duncan, Eugene	No	ARenew
607826	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	3/24/2015 11:01 AM	Yes	3/24/2015 11:01 AM	Duncan, Eugene	No	ARenew
608252	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	4/6/2015 1:41 PM	Yes	4/6/2015 1:41 PM	Smith, Keith	No	ARenew
608687	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	5/14/2015 2:17 PM	Yes	5/14/2015 2:17 PM	Smith, Keith	No	ARenew
609207	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	6/22/2015 2:38 PM	Yes	6/22/2015 2:38 PM	Duncan, Eugene	No	ARenew
609715	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	8/3/2015 10:40 AM	Yes	8/3/2015 10:40 AM	Duncan, Eugene	No	ARenew
610236	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	10/1/2015 6:59 AM	Yes	10/1/2015 6:59 AM	Duncan, Eugene	No	ARenew
610603	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	10/28/2015 11:59 AM	Yes	10/28/2015 11:59 AM	Duncan, Eugene	No	ARenew
611530	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-28-MH	Inspection - Weekly	Yes	12/4/2015 6:58 AM	Yes	12/4/2015 6:58 AM	Smith, Keith	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Manhole GIS #10617 Potomac Interceptor (Tide Gate Pendleton Street)

Entity number PTI-29-MH

Entity PTI-29-MH - Activity History

File Edit View Window Help

[7] PTI-29-MH
Manhole GIS #10617 Potomac Interceptor (Tide Gate Pendleton Street)

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
602022	1	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	5/7/2014 7:41 AM	Yes	5/7/2014 7:41 AM	Coleman, Lewis	No	ARenew
602834	1	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	6/17/2014 1:21 PM	Yes	6/17/2014 1:21 PM	Coleman, Lewis	No	ARenew
603617	1	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	7/29/2014 8:43 AM	Yes	7/29/2014 8:41 AM	Rodriguez-Caraballo, Rialph	No	ARenew
604614	2	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	10/3/2014 9:43 AM	Yes	10/3/2014 9:43 AM	Lee, Joshua	No	ARenew
605935	3	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	11/18/2014 2:20 PM	Yes	11/18/2014 2:20 PM	Lee, Joshua	No	ARenew
606837	5	PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	1/8/2015 8:05 AM	Yes	1/8/2015 8:05 AM	Duncan, Eugene	No	ARenew
607826	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	3/24/2015 11:05 AM	Yes	3/24/2015 11:05 AM	Duncan, Eugene	No	ARenew
608252	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	4/6/2015 1:44 PM	Yes	4/6/2015 1:44 PM	Smith, Keith	No	ARenew
608687	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	5/7/2015 2:03 PM	Yes	5/7/2015 2:03 PM	Duncan, Eugene	No	ARenew
609207	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	7/2/2015 2:39 PM	Yes	7/2/2015 2:39 PM	Duncan, Eugene	No	ARenew
609715	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	8/6/2015 2:20 PM	Yes	8/6/2015 2:20 PM	Duncan, Eugene	No	ARenew
610411	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	10/6/2015 12:07 PM	Yes	10/6/2015 12:07 PM	Duncan, Eugene	No	ARenew
611250	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	12/11/2015 1:20 PM	Yes	12/11/2015 1:20 PM	Duncan, Eugene	No	ARenew
611958	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-29-MH	Inspection - Weekly	Yes	12/22/2015 2:29 PM	Yes	12/22/2015 2:29 PM	Duncan, Eugene	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Manhole GIS #10618 Potomac Interceptor (Sluice Gate Pendleton Strret)

Entity number PTI-30-MH

Entity PTI-30-MH - Activity History

File Edit View Window Help

[7] PTI-30-MH
Manhole GIS #10618 Potomac Interceptor (Sluice Gate Pendleton Strret)

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
601634	1	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	4/18/2014 10:58 AM	Yes	4/18/2014 10:58 AM	Lee, Joshua	No	ARenew
602648	1	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	6/3/2014 2:30 PM	Yes	6/3/2014 2:30 PM	Duncan, Eugene	No	ARenew
603460	1	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	7/15/2014 2:11 PM	Yes	7/15/2014 2:11 PM	Lee, Joshua	No	ARenew
604240	2	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	8/14/2014 11:56 AM	Yes	8/14/2014 11:56 AM	Rodriguez-Caraballo, Ralph	No	ARenew
604829	2	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	10/7/2014 6:03 AM	Yes	10/7/2014 6:03 AM	Lee, Joshua	No	ARenew
605935	5	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	11/18/2014 2:20 PM	Yes	11/18/2014 2:20 PM	Lee, Joshua	No	ARenew
606837	3	PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	1/8/2015 8:31 AM	Yes	1/8/2015 8:31 AM	Duncan, Eugene	No	ARenew
607826	3	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	3/24/2015 11:02 AM	Yes	3/24/2015 11:02 AM	Duncan, Eugene	No	ARenew
608252	3	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	4/6/2015 1:43 PM	Yes	4/6/2015 1:43 PM	Smith, Keith	No	ARenew
608687	3	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	5/15/2015 8:50 AM	Yes	5/15/2015 8:50 AM	Lee, Joshua	No	ARenew
609207	3	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	6/22/2015 2:37 PM	Yes	6/22/2015 2:37 PM	Duncan, Eugene	No	ARenew
609715	3	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	8/3/2015 10:44 AM	Yes	8/3/2015 10:44 AM	Duncan, Eugene	No	ARenew
610289	1	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	10/1/2015 7:08 AM	Yes	10/1/2015 7:08 AM	Duncan, Eugene	No	ARenew
610652	1	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	11/4/2015 1:27 PM	Yes	11/4/2015 1:27 PM	Duncan, Eugene	No	ARenew
611691	1	***PM - 1 WK Line Run Tuesday - 2	PTI-30-MH	Inspection - Weekly	Yes	1/5/2016 2:35 PM	Yes	1/5/2016 2:35 PM	Smith, Keith	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Manhole GIS #10587 Potomac Interceptor (Outlet From Royal Street Regulator)

Entity number PTI-34-MH

Entity PTI-34-MH - Activity History

File Edit View Window Help

[7] PTI-34-MH
Manhole GIS #10587 Potomac Interceptor (Outlet From Royal Street Regulator)

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
602022	1	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	5/7/2014 7:41 AM	Yes	5/7/2014 7:41 AM	Coleman, Lewis	No	ARenew
602834	1	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	6/17/2014 1:21 PM	Yes	6/17/2014 1:21 PM	Coleman, Lewis	No	ARenew
603617	1	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	7/29/2014 8:43 AM	Yes	7/29/2014 8:41 AM	Rodriguez-Caraballo, Rialph	No	ARenew
604614	2	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	10/3/2014 9:43 AM	Yes	10/3/2014 9:43 AM	Lee, Joshua	No	ARenew
605935	3	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	11/18/2014 2:20 PM	Yes	11/18/2014 2:20 PM	Lee, Joshua	No	ARenew
606837	5	PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	1/8/2015 8:05 AM	Yes	1/8/2015 8:05 AM	Duncan, Eugene	No	ARenew
607826	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	3/24/2015 11:05 AM	Yes	3/24/2015 11:05 AM	Duncan, Eugene	No	ARenew
608252	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	4/6/2015 1:44 PM	Yes	4/6/2015 1:44 PM	Smith, Keith	No	ARenew
608687	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	5/7/2015 2:03 PM	Yes	5/7/2015 2:03 PM	Duncan, Eugene	No	ARenew
609207	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	7/2/2015 2:39 PM	Yes	7/2/2015 2:39 PM	Duncan, Eugene	No	ARenew
609715	5	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	8/6/2015 2:20 PM	Yes	8/6/2015 2:20 PM	Duncan, Eugene	No	ARenew
610411	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	10/6/2015 12:07 PM	Yes	10/6/2015 12:07 PM	Duncan, Eugene	No	ARenew
611250	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	12/11/2015 1:20 PM	Yes	12/11/2015 1:20 PM	Duncan, Eugene	No	ARenew
611958	1	~~PM - 1 WK Line Run Tuesday - 4	PTI-34-MH	Inspection - Weekly	Yes	12/22/2015 2:29 PM	Yes	12/22/2015 2:29 PM	Duncan, Eugene	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Manhole GIS #10585 Potomac Interceptor

Entity number PTI-36-MH

Entity PTI-36-MH - Activity History

File Edit View Window Help

[7] PTI-36-MH
Manhole GIS #10585 Potomac Interceptor

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
603556	1	PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	7/25/2014 1:33 PM	Yes	7/25/2014 1:33 PM	Duncan, Eugene	No	ARenew
604614	1	PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	10/3/2014 9:32 AM	Yes	10/3/2014 9:31 AM	Lee, Joshua	No	ARenew
605935	2	PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	11/18/2014 2:21 PM	Yes	11/18/2014 2:21 PM	Lee, Joshua	No	ARenew
606837	4	PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	1/8/2015 8:32 AM	Yes	1/8/2015 8:32 AM	Duncan, Eugene	No	ARenew
607826	4	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	3/24/2015 11:04 AM	Yes	3/24/2015 11:04 AM	Duncan, Eugene	No	ARenew
608252	4	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	4/6/2015 1:44 PM	Yes	4/6/2015 1:44 PM	Smith, Keith	No	ARenew
608687	4	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	5/15/2015 8:51 AM	Yes	5/15/2015 8:50 AM	Lee, Joshua	No	ARenew
609207	4	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	6/22/2015 2:40 PM	Yes	6/22/2015 2:40 PM	Duncan, Eugene	No	ARenew
609715	4	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	8/3/2015 7:22 AM	Yes	8/3/2015 7:22 AM	Duncan, Eugene	No	ARenew
610391	1	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	10/6/2015 6:47 AM	Yes	10/6/2015 6:47 AM	Smith, Keith	No	ARenew
611076	1	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	1/5/2016 2:31 PM	Yes	1/5/2016 2:31 PM	Smith, Keith	No	ARenew
611865	1	***PM - 1 WK Line Run Tuesday - 3	PTI-36-MH	Inspection - Weekly	Yes	1/5/2016 2:39 PM	Yes	1/5/2016 2:39 PM	Smith, Keith	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Start 2:40 PM 1/11/2016

Manhole GIS #10535 Potomac Interceptor (Gate, Tide, Royal Street)

Entity number PTI-37-MH

Entity PTI-37-MH - Activity History

File Edit View Window Help

[7] PTI-37-MH
Manhole GIS #10535 Potomac Interceptor (Gate, Tide, Royal Street)

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
601634	1	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	4/18/2014 10:58 AM	Yes	4/18/2014 10:58 AM	Lee, Joshua	No	ARenew
602648	1	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	6/3/2014 2:30 PM	Yes	6/3/2014 2:30 PM	Duncan, Eugene	No	ARenew
603460	1	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	7/15/2014 2:11 PM	Yes	7/15/2014 2:11 PM	Lee, Joshua	No	ARenew
604240	2	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	8/14/2014 11:56 AM	Yes	8/14/2014 11:56 AM	Rodriguez-Caraballo, Ralph	No	ARenew
604829	2	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	10/7/2014 6:03 AM	Yes	10/7/2014 6:03 AM	Lee, Joshua	No	ARenew
605935	5	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	11/18/2014 2:20 PM	Yes	11/18/2014 2:20 PM	Lee, Joshua	No	ARenew
606837	3	PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	1/8/2015 8:31 AM	Yes	1/8/2015 8:31 AM	Duncan, Eugene	No	ARenew
607826	3	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	3/24/2015 11:02 AM	Yes	3/24/2015 11:02 AM	Duncan, Eugene	No	ARenew
608252	3	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	4/6/2015 1:43 PM	Yes	4/6/2015 1:43 PM	Smith, Keith	No	ARenew
608687	3	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	5/15/2015 8:50 AM	Yes	5/15/2015 8:50 AM	Lee, Joshua	No	ARenew
609207	3	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	6/22/2015 2:37 PM	Yes	6/22/2015 2:37 PM	Duncan, Eugene	No	ARenew
609715	3	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	8/3/2015 10:45 AM	Yes	8/3/2015 10:44 AM	Duncan, Eugene	No	ARenew
610289	1	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	10/1/2015 7:09 AM	Yes	10/1/2015 7:08 AM	Duncan, Eugene	No	ARenew
610652	1	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	11/4/2015 1:27 PM	Yes	11/4/2015 1:27 PM	Duncan, Eugene	No	ARenew
611691	1	~~PM - 1 WK Line Run Tuesday - 2	PTI-37-MH	Inspection - Weekly	Yes	1/5/2016 2:35 PM	Yes	1/5/2016 2:35 PM	Smith, Keith	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Chamber, Outlet, For Syphon At Duke St. & Hoffs Run

Entity number PTI-03-MH

Entity PTI-03-MH - Activity History

File Edit View Window Help

[7] PTI-03-MH
Manhole GIS #8496 Potomac Interceptor

- General Information
- OLE Canvas
- Parts
- Activities
- Activity History
- Hierarchy
- Open Work
- Work History
- PM Program
- PM Triggering History
- Procedures and Safety
- Cost Summary
- Cost Transactions
- Serialized Items
- Purchases
- Statistic Summary
- Statistic Readings
- Warranties
- Status

Activities history for this entity

Work Order	Task	Title	Activity	Type	Processed?	Processed On	Done?	Date Completed	Done By	Site Moved?	Transac
602445	1	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	5/28/2014 7:05 AM	Yes	5/28/2014 7:04 AM	Duncan, Eugene	No	ARenew
603343	1	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	7/14/2014 7:51 AM	Yes	7/14/2014 7:51 AM	Lee, Joshua	No	ARenew
604240	1	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	8/14/2014 11:57 AM	Yes	8/14/2014 11:57 AM	Rodriguez-Caraballo, Ralph	No	ARenew
604829	1	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	10/7/2014 6:03 AM	Yes	10/7/2014 6:03 AM	Lee, Joshua	No	ARenew
605935	4	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	11/18/2014 2:19 PM	Yes	11/18/2014 2:19 PM	Lee, Joshua	No	ARenew
606837	1	PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	1/8/2015 8:29 AM	Yes	1/8/2015 8:29 AM	Duncan, Eugene	No	ARenew
607826	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	3/24/2015 11:01 AM	Yes	3/24/2015 11:01 AM	Duncan, Eugene	No	ARenew
608252	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	4/6/2015 1:41 PM	Yes	4/6/2015 1:41 PM	Smith, Keith	No	ARenew
608687	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	5/14/2015 2:17 PM	Yes	5/14/2015 2:17 PM	Smith, Keith	No	ARenew
609207	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	6/22/2015 2:38 PM	Yes	6/22/2015 2:38 PM	Duncan, Eugene	No	ARenew
609715	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	8/3/2015 10:40 AM	Yes	8/3/2015 10:40 AM	Duncan, Eugene	No	ARenew
610236	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	10/1/2015 6:59 AM	Yes	10/1/2015 6:59 AM	Duncan, Eugene	No	ARenew
610603	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	10/28/2015 11:59 AM	Yes	10/28/2015 11:59 AM	Duncan, Eugene	No	ARenew
611530	1	~~PM - 1 WK Line Run Tuesday - 1	PTI-03-MH	Inspection - Weekly	Yes	12/4/2015 6:58 AM	Yes	12/4/2015 6:58 AM	Smith, Keith	No	ARenew

Selected Order By

For Help, press F1 ARenew NUM

Appendix D

Sewer Rehabilitation and Pollution Abatement 10-Year CIP

SANITARY SEWERS

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Sanitary Sewers
Approved FY 2016 - 2025 Capital Improvement Program
Summary of Projects

Note: Projects with $0 total funding are active capital projects funded in prior CIPs that do not require additional resources.

CIP Seciton/Subsection/Project	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	TOTAL FY 16-25
Holmes Run Trunk Sewer	0	0	0	0	0	0	0	0	0	0	0
Combined Sewer Overflow 001 Planning	0	0	0	0	0	0	0	0	0	0	0
Four Mile Run Sanitary Sewer Repair	200,000	0	0	0	0	0	0	0	0	0	200,000
Combined Sewer System (CSS) Permit Compliance	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
Reconstructions & Extensions of Sanitary Sewers	500,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,600,000
Wet Weather Management Facility	0	2,250,000	8,750,000	9,000,000	0	0	0	0	0	0	20,000,000
Combined Sewer Separation Projects	0	400,000	600,000	200,000	200,000	600,000	200,000	200,000	600,000	200,000	3,200,000
Citywide Sewershed Infiltration & Inflow	0	3,000,000	2,375,000	3,075,000	2,850,000	4,000,000	0	0	0	0	15,300,000
Sewer Assessment & Rehabilitation	0	0	0	3,700,000	2,550,000	2,550,000	0	0	0	0	8,800,000
AlexRenew Wastewater Treatment Plant Capacity	0	0	0	0	11,070,000	11,400,000	11,750,000	0	0	0	34,220,000
FY 2016 - 2025 Sanitary Sewers Total	1,000,000	6,850,000	12,925,000	17,175,000	17,870,000	19,750,000	13,150,000	1,400,000	1,800,000	1,400,000	93,320,000

Sanitary Sewers Ten-Year Plan
Approved FY 2016 – 2025 Capital, Operating and Debt Service

Sanitary Sewer Rate	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 16-25
Sanitary Sewer Rate ($ per 1,000 gallons)	$1.25	$1.25	$1.40	$1.68	$2.18	$2.63	$2.96	$2.96	$3.00	$3.00	
Proposed Rate Increase	**0.0%**	**12.0%**	**20.0%**	**30.0%**	**20.5%**	**12.5%**	**0.0%**	**1.3%**	**0.0%**	**0.0%**	
New Sanitary Sewer Rate	$1.25	$1.40	$1.68	$2.18	$2.63	$2.96	$2.96	$3.00	$3.00	$3.00	

Revenues	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 16-25
Sewer Line Maintenance Fee	6,000,000	6,770,400	8,185,414	10,720,845	13,015,508	14,752,265	14,862,907	15,161,559	15,275,271	15,389,835	**120,134,005**
Sewer Connection Fee	4,600,000	3,750,000	3,750,000	2,200,000	2,310,000	2,425,500	2,546,775	2,674,114	2,807,819	2,920,132	**29,984,340**
New Debt Issuance	0	5,850,000	11,925,000	14,325,000	15,595,000	17,475,000	12,150,000	400,000	800,000	400,000	**78,920,000**
Reprogrammed Prior Year Funding	0	0	0	0	0	0	0	0	0	0	**0**
Fund Balance Carryover	0	122,800	172,709	352,406	46,778	511,510	815,546	186,685	(49,452)	121,121	
Total Revenues	**10,600,000**	**16,493,200**	**24,033,123**	**27,598,251**	**30,967,286**	**35,164,276**	**30,375,228**	**18,422,358**	**18,833,638**	**18,831,088**	**229,038,345**

All Operating	6,588,752	6,349,035	6,640,651	6,897,589	7,599,084	7,955,166	8,167,747	8,403,919	8,629,573	8,859,423	**76,090,940**
All Capital Projects	1,300,000	6,850,000	12,925,000	15,325,000	16,595,000	18,475,000	13,150,000	1,400,000	1,800,000	1,400,000	**89,220,000**
All Debt Service	2,588,448	3,121,455	4,115,066	5,328,884	6,261,692	7,918,564	8,870,796	8,667,891	8,282,944	8,099,443	**63,255,183**
Total Expenditures	**10,477,200**	**16,320,490**	**23,680,717**	**27,551,473**	**30,455,776**	**34,348,730**	**30,188,543**	**18,471,810**	**18,712,517**	**18,358,866**	**228,566,123**

Operating Costs	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 16-25
T&ES Personnel Charges (incl. Worker's Comp)	2,836,967	2,922,076	3,009,739	3,100,031	3,193,032	3,288,823	3,387,487	3,489,112	3,593,785	3,701,599	**32,522,651**
DPI Personnel Charges	558,947	575,715	592,987	610,776	629,100	647,973	667,412	687,434	708,057	729,299	**6,407,701**
Indirect Costs (Tr to G.F.)	975,200	967,877	1,098,058	1,188,718	1,409,947	1,580,354	1,601,691	1,640,882	1,663,644	1,684,517	**13,810,888**
Sewer Jet Cleaning	250,000	250,000	257,500	265,225	273,182	281,377	289,819	298,513	307,468	316,693	**2,789,777**
Corrective Maintenance	103,000	106,090	109,273	112,551	115,927	119,405	122,987	126,677	130,477	134,392	**1,180,780**
Other Non-Personnel (Training, Utilities, Rentals, etc.)	141,343	145,583	149,951	154,449	159,083	163,855	168,771	173,834	179,049	184,420	**1,620,337**
DPI Standard Specifications	0	0	0	0	0	0	0	0	0	0	**0**
Equipment Replacement	118,895	122,462	126,136	129,920	133,817	137,832	141,967	146,226	150,613	155,131	**1,362,997**
Sanitary Sewer Capacity Study - Flow Metering, Sewer Modeling, CMOM	560,000	400,000	412,000	424,360	437,091	450,204	463,710	477,621	491,950	506,708	**4,623,642**
Sewer Billing	82,400	84,872	87,418	90,041	92,742	95,524	98,390	101,342	104,382	107,513	**944,624**
Annual CCTV of Sewers	412,000	424,360	437,091	450,204	463,710	477,621	491,950	506,708	521,909	537,567	**4,723,118**
Heavy Cleaning of Sewers	550,000	350,000	360,500	371,315	382,454	393,928	405,746	417,918	430,456	443,370	**4,105,687**
Wet Weather Management Facility Operating	0	0	0	0	309,000	318,270	327,818	337,653	347,782	358,216	**1,998,739**
Subtotal, Operating Costs	***6,588,752***	***6,349,035***	***6,640,651***	***6,897,589***	***7,599,084***	***7,955,166***	***8,167,747***	***8,403,919***	***8,629,573***	***8,859,423***	***76,090,940***

Sanitary Sewers Ten-Year Plan
Approved FY 2016 – 2025 Capital, Operating and Debt Service (Continued)

Capital Projects	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 16-25
Reconstruction and Extension of Sanitary Sewers	500,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	**8,600,000**
Wet Weather Management Facility	0	2,250,000	8,750,000	9,000,000	0	0	0	0	0	0	**20,000,000**
Sewer Separation Projects	0	400,000	600,000	200,000	200,000	600,000	200,000	200,000	600,000	200,000	**3,200,000**
Green Infrastructure in CSO Areas	250,000	0	0	0	0	0	0	0	0	0	**250,000**
Combined Sewer Permit Compliance	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	**3,000,000**
City Standard Construction Specs	50,000	0	0	0	0	0	0	0	0	0	**50,000**
Citywide Sewershed Rehab and I&I Red.	0	3,000,000	2,375,000	3,075,000	2,850,000	4,000,000	0	0	0	0	**15,300,000**
Combined Sewer Assessment and Rehab	0	0	0	1,850,000	1,275,000	1,275,000	0	0	0	0	**4,400,000**
AlexRenew WWTP Expansion	0	0	0	0	11,070,000	11,400,000	11,750,000	0	0	0	**34,220,000**
Four Mile Run Sanitary Sewer Repair	200,000	0	0	0	0	0	0	0	0	0	**200,000**
Combined Sewer Overflow Planning	0	0	0	0	0	0	0	0	0	0	**0**
King/West Diversion Chamber	0	0	0	0	0	0	0	0	0	0	**0**
Holmes Run Trunk Sewer	0	0	0	0	0	0	0	0	0	0	**0**
Subtotal, Capital Projects	*1,300,000*	*6,850,000*	*12,925,000*	*15,325,000*	*16,595,000*	*18,475,000*	*13,150,000*	*1,400,000*	*1,800,000*	*1,400,000*	*89,220,000*
Debt Service	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**FY 2023**	**FY 2024**	**FY 2025**	**Total FY 16-25**
Debt Service Payments	*2,588,448*	*3,121,455*	*4,115,066*	*5,328,884*	*6,261,692*	*7,918,564*	*8,870,796*	*8,667,891*	*8,282,944*	*8,099,443*	***63,255,183***
Total, All Categories	**10,477,200**	**16,320,490**	**23,680,717**	**27,551,473**	**30,455,776**	**34,348,730**	**30,188,543**	**18,471,810**	**18,712,517**	**18,358,866**	**228,566,123**

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Holmes Run Trunk Sewer

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: 53411869

Project Location: AlexRenew Plant to the City/Fairfax Border
Reporting Area: Landmark/Van Dorn, Seminary Hill/Strawberry Hill Taylor Run, Eisenhower Ave, Eisenhower East
Project Category: 3 – New Facilities
Estimated Useful Life: 40 years

Holmes Run Trunk Sewer													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	9,002,000	*9,002,000*	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Prior City Funding	500,000	*500,000*	0	0	0	0	0	0	0	0	0	0	0
GO Bonds - Sanitary Sewer	4,200,000	*4,200,000*	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fees	4,302,000	*4,302,000*	0	0	0	0	0	0	0	0	0	0	0
Total Financing Plan	9,002,000	*9,002,000*	0	0	0	0	0	0	0	0	0	0	0
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: No changes from prior year CIP. This is an active project with no additional funding required.

Project Description & Justification

This project provides for an increase in capacity in the Holmes Run Trunk Sewer line, which is owned and operated by AlexRenew. Both the City and Fairfax County send wastewater flows to this sewer and share in the capacity of this sewer. Increased capacity is required to support development occurring in the Eisenhower Valley, as well as future development and redevelopment in the West End. Engineering studies indicated that lining the existing sewer with specialized materials would provide the needed capacity increase with minimal environmental disruption. Relining will increase the capacity in the western portion of the sewer from Van Dorn Street to Eisenhower Avenue at Cameron Run.

Phase I of this project included relining the western portion of the trunk sewer, completed in summer 2008. Additional engineering and analysis has determined that pipe lining alone will not increase capacity sufficiently in the Phase II – East Eisenhower section. Additional engineering analysis is underway to evaluate other capacity relief options, including constructing a relief sewer from Eisenhower Avenue to the AlexRenew plant, and potential wet weather sewer storage and treatment in the Holmes Run Service Area.

A total of $9.0 million from the Sanitary Sewer fund has been budgeted in prior fiscal years for this project. Engineering analysis which is being coordinated with Fairfax County and AlexRenew is expected to be completed in 2015. The completion of the analysis will result in proposed recommended improvements for sewer capacity. Depending on the outcome of the current on-going study, additional funding may be required in future years for both design and construction.

Completion of this project will improve the City's sanitary sewer infrastructure, which will help mitigate any potential sanitary sewer overflows during periods of wet weather. Additionally the project will improve the City's readiness for accommodating quality economic growth.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Increase the value of the real estate tax base
- Ensure Alexandria supports, retains, and attracts businesses

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community
- Ensure the fiscal strength of the City government

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Combined Sewer Overflow 001 Planning

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: TBD

Project Location: CSO 001 – Pendleton St. at Potomac River
Reporting Area: Old Town/Old Town North
Project Category: 3 – New Facilities
Estimated Useful Life: N/A

Combined Sewer Overflow 001 Planning													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	500,000	*500,000*	0	0	0	0	0	0	0	0	0	0	0
Financing Plan													
Sanitary Sewer Fees	500,000	*500,000*	0	0	0	0	0	0	0	0	0	0	0
Total Financing Plan	500,000	*500,000*	0	0	0	0	0	0	0	0	0	0	0
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: No changes from prior year CIP. This is an active project with no additional funding required.

Project Description & Justification

The City's combined sewer system (sanitary and storm sewers) comprise approximately 540 acres located in the Old Town area. During certain wet weather events, flows in excess of the sewer pipes are discharged into receiving waterways via one of four combined sewer outfalls. These discharges are permitted by the Virginia Department of Environmental Quality (VDEQ). The Hunting Creek Bacteria Total Maximum Daily Load (TMDL) requires reductions in these discharges from 3 of the 4 permitted outfalls. This project is related to the Combined Sewer System (CSS) Permit Compliance project, but focuses only on the CSO 001 area.

The CSO 001 Planning project will provide for feasibility planning at CSO 001 (Pendleton Street) with the goal of reducing CSO discharges. A total of $500,000 was budgeted in FY 2015 for feasibility planning with design and construction to be determined based on future permit requirements.

There will be an additional benefit of significantly reducing the nutrient and sediment loadings into the Chesapeake Bay. These reductions could be applied towards the Chesapeake Bay TMDL stormwater reduction requirements and may benefit the City. Finally, the redevelopment of the GenOn site in Old Town will require developer contributions towards separating the combined sewage at the site. These potential contributions can be used to fund the storage at CSO 001. Planning for CSO 001 will insure coordination with any redevelopment of the Robinson Terminal North site.

(Continued on next page)

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community

External or Internal Adopted Plan or Recommendation

- T&ES Strategic Plan 2012-2015: Key Result Area III: Meet or exceed state or federal requirements of City's separate storm sewer and combined sewer system permits and maintain compliance with these environmental permits
- Eco-City Charter (Water Resources) and Eco-City Action Plan, Chapter 4, Goal 4: Eliminate the harmful impact of combined sewer systems in the long-term, and minimize them in the short-term
- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Combined Sewer Overflow 001 Planning (Continued)

Project Description & Justification (Continued)

For the City to stay in compliance with the future CSS permits, overflows from the Combined Sewer System need to be mitigated. This is primarily because of new regulatory requirements of the bacteria TMDL for Hunting Creek. The estimated total cost of mitigation of these overflows can range as high as $200 million - $300 million and depends on the type and mix of technologies implemented.

Through the ongoing update to the City's Long Term Control Plan for the CSS, an alternatives analysis is being conducted that will result in a recommended plan and projects to comply with the regulatory requirements. Only after completion of the Long Term Control Plan Update – scheduled for submission to the Virginia Department of Environmental Quality in August 2016 – and after their subsequent approval, will the schedule for the recommended projects and the costs associated with these projects become more certain. In the current permit cycle (2013-2018), the City is required to continue implementation of Nine Minimum Controls, along with other initiatives including implementation of the Area Reduction Plan, outfall improvements, green infrastructure, and select sewer separation projects. The City will also need to continue extensive monitoring, sampling, inspections, and reporting. This budget reflects the anticipated costs of improvements over the next five years only. Costs of improvements required for implementing the approved updated Long Term Control Plan (beyond FY 2019) have not yet been fully identified and are not included in the ten-year CIP.

Four Mile Run Sanitary Sewer Repair

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): Dept. of Project Implementation
ORG: 53411873

Project Location: End of Commonwealth Ave. to Bruce St.
Reporting Area: Potomac West
Project Category: 2 – Renovations/Existing Assets
Estimated Useful Life: 40 years

Four Mile Run Sanitary Sewer Repair													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	2,500,000	*2,300,000*	200,000	0	0	0	0	0	0	0	0	0	200,000
Financing Plan													
GO Bonds - Sanitary Sewer	800,000	*800,000*	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fees	1,700,000	*1,500,000*	200,000	0	0	0	0	0	0	0	0	0	200,000
Total Financing Plan	2,500,000	*2,300,000*	200,000	0	0	0	0	0	0	0	0	0	200,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: An additional $200,000 in Sanitary Sewer Fees is added to the project to account for project management costs previously not budgeted.

Project Description & Justification

This project will fund the rehabilitation of the Four Mile Run sanitary sewer. During field inspections of the Four Mile Run Inflow and Infiltration project in FY 2001, surcharged manholes with significant solids were encountered along the 36-inch diameter trunk sewer upstream of the Four Mile Run pump station. Efforts to clean the trunk sewer were unsuccessful due to the heavy solids volume and compaction in the sewer. In FY 2008, a specialty contractor successfully removed the solids and an inspection and condition assessment was completed. Based on the condition assessment of the trunk sewer following the removal of the solids, rehabilitation is necessary.

Total project costs are estimated at $2.5 million, and include planning, design and engineering, construction management, and construction. For FY2016, an additional $200,000 was added to the project based on more recent cost estimates to complete the work. The project is currently in the design phase and construction is tentatively scheduled to start in FY 2016.

Completion of this project will improve the City's sanitary sewer infrastructure and extend its useful life, reducing potential pipe collapse and other emergency repairs.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Combined Sewer System (CSS) Permit Compliance

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: 53411875

Project Location: Old Town CSO Area
Reporting Area: Old Town
Project Category: 1 – Asset Maintenance
Estimated Useful Life: Varies

Combined Sewer System (CSS) Permit Compliance													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	10,385,440	*7,385,440*	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
Financing Plan													
GO Bonds - Sanitary Sewer	245,072	*245,072*	0	0	0	0	0	0	0	0	0	0	0
Sanitary Sewer Fees	10,140,368	*7,140,368*	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
Total Financing Plan	10,385,440	*7,385,440*	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
Additional Operating Impact													
Annual Impact			TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Cumulative Impact			TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Changes from Prior Year CIP: Funding added for FY 2025. No other changes from prior year CIP.

Project Description & Justification

The City's combined sewer system (sanitary and storm sewers) comprise approximately 540 acres located in the Old Town area. During certain wet weather events, flows in excess of the sewer pipes carrying capacity are discharged into receiving waterways via one of four combined sewer outfalls. These discharges are permitted by the Virginia Department of Environmental Quality (VDEQ). The Hunting Creek Bacteria Total Maximum Daily Load (TMDL) requires reductions in these discharges from 3 of the 4 permitted outfalls. The City received a new permit in August 2013 which requires the City to develop a Long-Term Control Plan (LTCP) update that complies with the TDML requirements, to submit the plan by August 2016, and to implement the plan no later than 2035.

In order to comply with the August 2013 permit, the City must perform a number of activities, including the Long Term Control Plan update. The Long Term Control Plan update is a detailed study of combined sewer control alternatives, their financial costs, and a schedule that is acceptable to Virginia Department of Environmental Quality.

The project will also fund the construction of a new weir structure at Outfall 004. This new weir structure will decrease both the number of combined sewer overflow (CSO) discharges at Outfall 004 and the total CSO volume, which will provide the benefit of improving water quality in Hooff's Run.

Completion of these initiatives will enhance the ecological integrity of waterways by maintaining and improving storm water and sanitary infrastructure and stream system health to minimize environmental impacts.

Funding also ensures compliance with Commonwealth and Federal statutes and permits, and will continue to improve the City's combined sewer system.

(Continued on next page)

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City
- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government
- Ensure government is accountable to the community
- Ensure the fiscal strength of the City government

External or Internal Adopted Plan or Recommendation

- Consistent with the Eco-City Charter and Eco-City Action Plan 2030, adopted by City Council June 2008 and June 2009 respectively
- T&ES Strategic Plan: Key Result Area – Meet or exceed state and federal requirements of the City's MS4 and combined sewer permits
- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

Unknown at this time. Additional operating impacts will be identified as new infrastructure is installed.

Combined Sewer System (CSS) Permit Compliance (Continued)

Project Description and Justification (Continued)

For the City to stay in compliance with the future CSS permits, overflows from the Combined Sewer System need to be mitigated. This is primarily because of new regulatory requirements of the bacteria TMDL for Hunting Creek. The estimated total cost of mitigation of these overflows can range as high as $200 million - $300 million and depends on the type and mix of technologies implemented.

Through the ongoing update to the City's Long Term Control Plan for the CSS, an alternatives analysis is being conducted that will result in a recommended plan and projects to comply with the regulatory requirements. Only after completion of the Long Term Control Plan Update – scheduled for submission to the Virginia Department of Environmental Quality in August 2016 – and after their subsequent approval, will the schedule for the recommended projects and the costs associated with these projects become more certain. In the current permit cycle (2013-2018), the City is required to continue implementation of Nine Minimum Controls, along with other initiatives including implementation of the Area Reduction Plan, outfall improvements, green infrastructure, and select sewer separation projects. The City will also need to continue extensive monitoring, sampling, inspections, and reporting. This budget reflects the anticipated costs of improvements over the next five years only. Costs of improvements required for implementing the approved updated Long Term Control Plan (beyond FY 2019) have not yet been fully identified and are not included in the ten-year CIP.

Reconstruction and Extension of Sanitary Sewers

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): Dept. of Project Implementation
ORG: 53411872

Project Location: Citywide
Reporting Area: Citywide
Project Category: 1 – Asset Maintenance
Estimated Useful Life: 50 years

Reconstruction and Extension of Sanitary Sewers													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	19,992,959	*11,392,959*	500,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,600,000
Financing Plan													
GO Bonds - Sanitary Sewer	6,423,708	*1,173,708*	0	850,000	800,000	400,000	400,000	800,000	400,000	400,000	800,000	400,000	5,250,000
Sanitary Sewer Fees	13,569,251	*10,219,251*	500,000	50,000	100,000	500,000	500,000	100,000	500,000	500,000	100,000	500,000	3,350,000
Total Financing Plan	19,992,959	*11,392,959*	500,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	8,600,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: Planned funding of $900,000 for FY 2016 in prior year CIP reduced to $500,000 based on available project balances. Funding in the amount of $900,000 was added for FY 2025. No other changes from prior year CIP.

Project Description & Justification

This project provides for the construction of new sewer mains and the replacement and rehabilitation of old lines as needed, repairs to City streets disturbed by sewer line repairs and reconstruction and funds for the City's share of the cost of sewer extensions required for development. This is an essential infrastructure project.

Prior year balances along with additional annual funding in FY 2016 will be utilized to fund multiple projects in this request. Several projects are in early planning stages, while others are currently under design. Obstacles to construction may include the moving of buried utility lines, such as power, water, and gas lines by the various utility owners that if not moved would interfere with the construction.

Projects currently under study/design and tentatively scheduled for construction in FY 2015-2016 include:

- Pendleton Streets manhole additions
- Beauregard Street Sanitary Sewer Construction (included with King & Beauregard street intersection improvement project)
- West Uhler Sewer Construction
- Groves Sewer Replacement
- Hooff's Run (Chapman to Maple Streets) Sewer Lining
- North Alfred Sewer Replacement
- Wheeler Avenue Sewer Replacement
- Sewer lining projects in to be identified areas
- Miscellaneous or emergency repairs as required

Completion of these projects improves the City's sanitary sewer infrastructure while reducing the frequency of unplanned repairs due to deferred maintenance.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Wet Weather Management Facility

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: TBD

Project Location: Near the AlexRenew Facility
Reporting Area: Southwest Quadrant
Project Category: 3 – New Facilities
Estimated Useful Life: 20+ years

Wet Weather Management Facility													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	22,250,000	*2,250,000*	0	2,250,000	8,750,000	9,000,000	0	0	0	0	0	0	20,000,000
Financing Plan													
GO Bonds - Sanitary Sewer	21,850,000	*2,100,000*	0	2,000,000	8,750,000	9,000,000	0	0	0	0	0	0	19,750,000
Sanitary Sewer Fees	400,000	*150,000*	0	250,000	0	0	0	0	0	0	0	0	250,000
Total Financing Plan	22,250,000	*2,250,000*	0	2,250,000	8,750,000	9,000,000	0	0	0	0	0	0	20,000,000
Additional Operating Impact													
Annual Impact			0	0	0	0	309,000	318,270	327,818	337,653	347,782	358,216	1,998,739
Cumulative Impact			0	0	0	0	309,000	627,270	955,088	1,292,741	1,640,523	1,998,739	1,998,739

Changes from Prior Year CIP: Based on an updated project schedule, funding planned in FY 2016 in the prior year CIP was shifted to FY 2017. There is no change to the total amount of funding and no change to the project scope.

Project Description & Justification

During periods of extreme wet weather, stormwater enters the City's sanitary sewer collection system. This has the potential to lead to sewer back-ups in homes and businesses throughout the City. In addition, wet weather flows in the sewer can cause sanitary sewer overflows (SSOs), where raw sewage is discharged to receiving waters before being treated. Due to a combination of wet weather flow and forecasted growth in the City (and Fairfax County), there is concern that the number of SSOs in the future will increase and create an additional potential for sewer back-ups.

A study was completed in 2010 (and updated in 2012) which recommended a wet weather management facility to mitigate SSOs and basement back-ups. The facility also would reduce the occurrence of combined sewer overflows (CSOs) from Outfall 004. The wet weather management facility includes the following components: increasing the flow at the AlexRenew plant from 108 to 116 million gallons per day (through primary treatment), relocation of Outfall 004 from Duke Street to just outside the AlexRenew plant, construction of a 500,000 gallon storage tunnel, and wet weather pumping to reduce the surcharging in the interceptor sewers to prevent back-ups.

Initial planning and design funding is scheduled to begin in FY 2015. The total project cost is estimated to be $33.6 million (2012 dollars), and it is anticipated that the costs for this facility would be shared between Fairfax County and the City. In addition, the funding includes $5.45 million to extend the storage tunnel upstream to capture additional combined sewage from Outfall 003.

This project provides a number of benefits including reducing sanitary sewer backups into homes and business while reducing the impact that sanitary sewer that SSOs and CSOs have on the environment.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

The annual operating and maintenance costs associated with the facility includes electricity costs associated with the wet weather pumping, labor and equipment rental for the tunnel cleaning and inspection, and equipment replacement costs. The operating costs as assumed to be shared with Fairfax County with the City being responsible for 50 percent of the costs.

Combined Sewer Separation Projects

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): Dept. of Project Implementation
ORG: 53411876

Project Location: Old Town CSO Area
Reporting Area: Old Town, Old Town North, Braddock Road Metro
Project Category: 3 – New Facilities
Estimated Useful Life: 50 years

Combined Sewer Separation Projects													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	5,925,000	*2,925,000*	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000
Financing Plan													
Sanitary Sewer Fees	6,125,000	*2,925,000*	0	400,000	600,000	200,000	200,000	600,000	200,000	200,000	600,000	200,000	3,200,000
Total Financing Plan	6,125,000	*2,925,000*	0	400,000	600,000	200,000	200,000	600,000	200,000	200,000	600,000	200,000	3,200,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: Planned funding of $200,000 for FY 2016 in prior year CIP deferred to FY 2017 based on available project balances. Funding in the amount of $200,000 was added for FY 2025. No other changes from prior year CIP.

Project Description & Justification

This project provides funding for the City to proactively separate small areas of combined sewers. Areas of opportunity exist for separation of combined sewer systems where construction of additional sewers in a few blocks due to new development may result in completing the separation of a larger area. Opportunities may also arise in conjunction with redevelopment in the combined sewer area.

In 2011 City staff identified portions of the King and West combined sewershed where separation may be achieved by disconnecting sanitary sewers from the combined sewer system and reconnecting to the Potomac Yards Trunk Sewer, which was designed to accommodate separated sanitary flow from this area. Field investigations were conducted to collect survey data, confirm sewer connectivity, and provide sewer separation recommendations and planning level design and construction costs.

The Payne Street and Fayette Street separation project is currently in the design phase and construction is anticipated in spring 2015. This project will meet one of the requirements of the City's Combined Sewer System permit that requires the separation of at least 60 sanitary laterals from the Combined Sewer System.

The City is currently in the process of identifying other areas of opportunity for sewer separation. Once these areas are identified, staff will move forward with field evaluation, design and construction phases for the next project.

This project will provide water quality benefits in that the separation of sanitary sewers in the combined area will decrease the bacteria loading into Hooff's Run during rain events where combined sewer overflows are activated.

(Continued on next page)

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City
- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government
- Ensure government is accountable to the community
- Ensure the fiscal strength of the City government

External or Internal Adopted Plan or Recommendation

- Consistent with the Eco-City Charter and Eco-City Action Plan 2030, adopted by City Council June 2008 and June 2009 respectively
- T&ES Strategic Plan: Key Result Area – Meet or exceed state and federal requirements of the City's MS4 and combined sewer permits
- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Combined Sewer Separation Projects (Continued)

Project Description and Justification (Continued)

For the City to stay in compliance with the future CSS permits, overflows from the Combined Sewer System need to be mitigated. This is primarily because of new regulatory requirements of the bacteria TMDL for Hunting Creek. The estimated total cost of mitigation of these overflows can range as high as $200 million - $300 million and depends on the type and mix of technologies implemented.

Through the ongoing update to the City's Long Term Control Plan for the CSS, an alternatives analysis is being conducted that will result in a recommended plan and projects to comply with the regulatory requirements. Only after completion of the Long Term Control Plan Update – scheduled for submission to the Virginia Department of Environmental Quality in August 2016 – and after their subsequent approval, will the schedule for the recommended projects and the costs associated with these projects become more certain. In the current permit cycle (2013-2018), the City is required to continue implementation of Nine Minimum Controls, along with other initiatives including implementation of the Area Reduction Plan, outfall improvements, green infrastructure, and select sewer separation projects. The City will also need to continue extensive monitoring, sampling, inspections, and reporting. This budget reflects the anticipated costs of improvements over the next five years only. Costs of improvements required for implementing the approved updated Long Term Control Plan (beyond FY 2019) have not yet been fully identified and are not included in the ten-year CIP.

Citywide Sewershed Infiltration and Inflow

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): Dept. of Project Implementation
ORG: 53411864

Project Location: Citywide
Reporting Area: Citywide
Project Category: 2 – Renovations/Existing Assets
Estimated Useful Life: 40 years

Citywide Sewershed Infiltration and Inflow													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	35,161,440	*19,861,440*	0	3,000,000	2,375,000	3,075,000	2,850,000	4,000,000	0	0	0	0	15,300,000
Financing Plan													
GO Bonds - Sanitary Sewer	31,050,000	*15,750,000*	0	3,000,000	2,375,000	3,075,000	2,850,000	4,000,000	0	0	0	0	15,300,000
Sanitary Sewer Fees	4,111,440	*4,111,440*	0	0	0	0	0	0	0	0	0	0	0
Total Financing Plan	35,161,440	*19,861,440*	0	3,000,000	2,375,000	3,075,000	2,850,000	4,000,000	0	0	0	0	15,300,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: Based on available project balances and updated project schedules, planned funding from FY 2016 - 2020 in the prior year CIP was shifted to FY 2017 - 2021. There is no change to the total amount of funding and no change to the project scope.

Project Description & Justification

This CIP program provides for evaluation, remediation and rehabilitation of infiltration/inflow and deficient conditions for the sanitary sewer system across the entire city. In the Holmes Run sewershed, which impacts the Alexandria West, Landmark/Van Dorn and Seminary Hill/Strawberry Hill reporting areas, the on-going programs will continue. In addition, this program will be phased into broader infrastructure issues across the entire sanitary sewer system to ensure dependable service into the future.

Much of the sanitary sewer system located in these areas is aging, deteriorated and requires maintenance. During wet weather, infiltration and inflow into the sanitary sewers can result in over-capacity conditions that cause overflows into the environment or customers' basements.

The Notice to Proceed for rehabilitation of sewers in the Pegram/Strawberry sewershed was issued in February 2015 and will take approximately one year to complete. Rehabilitation of sewers in the remaining sewersheds, along with manhole rehabilitation throughout the entire Holmes Run sewershed is anticipated to commence in spring 2015 and be completed in spring 2016. Following construction, flow monitoring will be performed to assess the amount of infiltration and inflow removed from the sewer system.

Completion of this project will help mitigate sanitary sewer overflows. Additionally, it will improve the City's sanitary sewer infrastructure and extend the infrastructure's useful life by reducing the potential of pipe collapse and other emergency repairs.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community
- Ensure the fiscal strength of the City government

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

Sewer Assessment and Rehabilitation

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: TBD

Project Location: Old Town CSO area
Reporting Area: Old Town, Old Town North, Braddock Road Metro
Project Category: 2 – Renovations/Existing Assets
Estimated Useful Life: Varies

Sewer Assessment & Rehabilitation													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	8,800,000	*0*	0	0	0	3,700,000	2,550,000	2,550,000	0	0	0	0	8,800,000
Financing Plan													
GO Bonds	4,400,000	*0*	0	0	0	1,850,000	1,275,000	1,275,000	0	0	0	0	4,400,000
GO Bonds - Sanitary Sewer	4,400,000	*0*	0	0	0	1,850,000	1,275,000	1,275,000	0	0	0	0	4,400,000
Total Financing Plan	8,800,000	*0*	0	0	0	3,700,000	2,550,000	2,550,000	0	0	0	0	8,800,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: No changes from prior year CIP.

Project Description & Justification

This project provides funding from both the Sanitary Sewer and Stormwater Management funds for the condition assessment of all of the sewers (sanitary, storm, combined) in the combined sewer service area in Old Town and remediation of structurally deficient sewers.

The City will perform condition assessments including cleaning and televising of the lines; assessing information to determine condition of lines; and determining if rehabilitation is needed. Structurally deficient sewers will be identified and the results of the field work will be evaluated to develop remediation projects which are expected to include the relining of sewers and manhole repairs.

Funding is not planned until FY 2019, and totals $8.8 million with 50% coming from the Sanitary Sewer Fund and 50% from City funds.

In addition to the health and environmental benefits of this project, completion of this project will repair and renew the City's sewer infrastructure, extend the infrastructure's useful life, and reduce the number of pipe collapses and other emergency repairs.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Sustain the natural quality of land within the City

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

AlexRenew Wastewater Treatment Plant Capacity

Document Subsection: Sanitary Sewers
Managing Department: Transportation & Environmental Services
Supporting Department(s): N/A
ORG: TBD

Project Location: 1500 Eisenhower Ave.
Reporting Area: Southwest Quadrant
Project Category: 3 – New Facilities
Estimated Useful Life: 20+ years

AlexRenew Wastewater Treatment Plant Capacity													
	A (B+M)	*B*	C	D	E	F	G	H	I	J	K	L	M (C:L)
	Total Budget & Financing	*Through FY 2015*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Total FY 2016-2025
Expenditure Budget	34,220,000	*0*	0	0	0	0	11,070,000	11,400,000	11,750,000	0	0	0	34,220,000
Financing Plan													
GO Bonds - Sanitary Sewer	34,220,000	*0*	0	0	0	0	11,070,000	11,400,000	11,750,000	0	0	0	34,220,000
Total Financing Plan	34,220,000	*0*	0	0	0	0	11,070,000	11,400,000	11,750,000	0	0	0	34,220,000
Additional Operating Impact													
Annual Impact			0	0	0	0	0	0	0	0	0	0	0
Cumulative Impact			0	0	0	0	0	0	0	0	0	0	0

Changes from Prior Year CIP: No changes from prior year CIP.

Project Description & Justification

The City's Department of Planning and Zoning (P&Z) has developed growth forecasts for build-out conditions (post year 2040) as presented in the Sanitary Sewer Master Plan. Based on these forecasts, the City is projected to exceed its wastewater allocation at the Alexandria Renew Enterprises (AlexRenew) Water Resource Recovery Facility by approximately 4 million gallons per day (mgd) beginning incrementally sometime after 2040.

AlexRenew has indicated that their facility can be expanded/upgraded to treat this additional 4 mgd at a total capital cost of $34.22 million (increased for inflation). This cost is based on hydraulically expanding the plant at the same time as other anticipated upgrades are needed (as existing process equipment reaches the end of its useful life). Although the need for an additional 4 mgd is not anticipated until after 2040, it would be more cost-effective to perform the hydraulic expansion while other upgrades are occurring based on the timeline provided by AlexRenew.

The costs provided do not include any additional nutrient (phosphorous and nitrogen) loads associated with these flows, which the City will reach around 2040. Options for addressing these added nutrient loadings have been identified in the Sanitary Sewer Master Plan and will continue to be evaluated. Funding for this project is not planned until FY 2020 – 2022. With the hydraulic expansion, the agreements between the City and AlexRenew and AlexRenew and Fairfax County would have to be renegotiated.

Another option for an additional 4 mgd is to purchase 4 mgd of wastewater treatment capacity from Fairfax County at AlexRenew, estimated to be approximately $56.0 million (2011 dollars). This option would not require any offset of nutrient loadings since the design flow at AlexRenew wouldn't change, but the City may be expected by Fairfax County to finance the entire $56.0 million now for capacity the City will not need for 30 years. Additionally, this option is contingent on Fairfax County acquiring additional treatment plant capacity at DC Water Blue Plains facility. The City will be continuing discussions with Fairfax County concerning this option, including if this expansion will be necessary in the current planned time frame.

City's Strategic Plan & Budget Guidance

Primary Strategic Plan Goal: Goal 2 – Health & Environment

Focus Area: Livable, Green, and Prospering City

- Improve the health of City waterways
- Promote an attractive urban environment that reflects our history and provides well-functioning infrastructure
- Increase the value of the real estate tax base
- Ensure Alexandria supports, retains, and attracts businesses

Focus Area: Accountable, Effective, & Well-Managed Government

- Ensure government is accountable to the community
- Ensure the fiscal strength of the City government

External or Internal Adopted Plan or Recommendation

- 2013 Sanitary Sewer Master Plan

Additional Operating Budget Impact

An additional impact to the operating budget is not anticipated.

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Appendix E

City of Alexandria Staff Training Records

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name Aerial Lift & Bucket Truck Qualification & Certification-1030 **Instructor 1** JONI MERRICK **Instructor 2**
Class Dates: 10/16/2015 - 10/16/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
127583	Ed	JOHNSON	Traffic Service Worker III	Yes	Yes	11/10/2015	8.00

Class Name Aerial Lift & Bucket Truck Qualification & Certification-1030 **Instructor 1** **Instructor 2**
Class Dates: 10/16/2015 - 10/28/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
272917	Vasile	NICHITA	Traffic Signal Repair Worker	Yes	Yes	10/28/2015	8.00

Class Name Aerial Lift & Bucket Truck Qualification & Certification-1030 **Instructor 1** **Instructor 2**
Class Dates: 10/16/2015 - 10/30/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
081306	Ronnie	CAMPBELL	Traffic Signal Repair Worker	Yes	Yes	10/30/2015	8.00

Class Name Aerial Lift & Bucket Truck Qualification & Certification-1030 **Instructor 1** **Instructor 2**
Class Dates: 10/26/2015 - 10/29/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
255524	Ion	SAJIN	Supervisor, Traffic Signal Repair	Yes	Yes	10/29/2015	8.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Aerial Lift & Bucket Truck Qualification & Certification-1030	**Instructor 1**		**Instructor 2**			
Class Dates:	10/26/2015 - 10/30/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
006880	Clifton	HAMPTON	Traffic Service Worker III	Yes	Yes	10/28/2015	8.00
268024	Arrian	MERCER	Traffic Signal Repair Worker	Yes	Yes	10/30/2015	8.00

Class Name	Aerial Lift & Bucket Truck Qualification & Certification-1030	**Instructor 1**		**Instructor 2**			
Class Dates:	10/26/2015 - 11/19/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	11/19/2015	8.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**				
Class Dates:	01/08/2015 - 01/08/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
029975	Larry	THOMPSON	Sewer Inspector	Yes	Yes	01/08/2015	1.00

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**				
Class Dates:	12/09/2015 - 12/09/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	01/20/2015	1.00
300285	Jeanelle	Allen	Equipment Operator I	Yes	Yes	02/05/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**
Class Dates:	12/10/2015 - 12/10/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
225053	Mark	ARNOLD	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00
278051	Carlos	ARROYO	Labor II	Yes	Yes	01/08/2015	1.00
274748	Bernard	BANKS	Equipment Operator II	Yes	Yes	01/22/2015	1.00
300795	William	BENSON	Labor Supervisor	Yes	Yes	01/26/2015	1.00
300523	Jeremias	BERMUDEZ	Equipment Operator II	Yes	Yes	01/22/2015	1.00
089271	Cleotis	BROWN	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00
060597	Michael	BROWN	Equipment Operator II	Yes	Yes	01/15/2015	1.00
266866	Arthur	BYRD	Equipment Operator II	Yes	Yes	01/22/2015	1.00
067682	Bobby	CARPENTER	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	01/08/2015	1.00
300470	Gregory	DAVIS	Equipment Operator II	Yes	Yes	01/22/2015	1.00
041911	Melvin	DOUGLAS	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00
300461	Michael	DOWNING	Labor III	Yes	Yes	01/08/2015	1.00
241857	Melvin	ENTWISLE	Inspector I	Yes	Yes	01/08/2015	1.00
142072	Kenneth	FULLER	Equipment Operator II	Yes	Yes	01/15/2015	1.00
130734	Jose	GIL	Labor Supervisor	Yes	Yes	01/08/2015	1.00
119405	George	GRAY	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00
245366	Vincent	GREEN	Equipment Operator II	Yes	Yes	01/15/2015	1.00
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/22/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**
Class Dates:	12/10/2015 - 12/10/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
134110	Michael	HAYNES	Heavy Equipment Operator	Yes	Yes	01/08/2015	1.00
255946	Herbert	HOLMES	Superintendent	Yes	Yes	02/03/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**
Class Dates:	12/15/2015 - 12/15/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
301341	Ian	Hawes	Equipment Operator I	No			1.00
266748	Kenneth	JOHNSON	Assistant Superintendent	Yes	Yes	01/26/2015	1.00
154272	Mark	JOHNSON	Labor Supervisor	Yes	Yes	01/22/2015	1.00
261140	William	JONES	Labor III	Yes	Yes	01/08/2015	1.00
255215	Keith	KEHLER	Heavy Equipment Operator	Yes	Yes	01/08/2015	1.00
066131	Juan	KILPATRICK	Labor III	Yes	Yes	01/08/2015	1.00
235746	Thomas	KNIGHTON	Labor Supervisor	Yes	Yes	01/08/2015	1.00
092902	Angela	LYNCH	Assistant Superintendent	Yes	Yes	01/15/2015	1.00
110383	George	MARTIN	Labor III	Yes	Yes	02/05/2015	1.00
231237	Matthew	MELKERSON	Division Chief, Traffic Operations	No		07/16/2010	0.00
267284	Darnell	MOORE	Equipment Operator II	Yes	Yes	01/22/2015	1.00
235462	Davis	McCoy	Superintendent	Yes	Yes	01/09/2015	1.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	01/21/2015	1.00
238900	Dwayne	PARTON	Assistant Superintendent	Yes	Yes	01/08/2015	1.00
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	01/30/2015	1.00
274484	Rodney	PITTS	Equipment Operator II	Yes	Yes	02/05/2015	1.00
077300	Jessie	REDFEARN	Heavy Equipment Operator	Yes	Yes	01/15/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**
Class Dates:	12/15/2015 - 12/15/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
001523	Harold	SHAW	Supervisor, Maintenance Projects	Yes	Yes	01/08/2015	1.00
150052	John	TAYLOR	Equipment Operator II	Yes	Yes	01/08/2015	1.00
300099	John	TYLER	Equipment Operator II	Yes	Yes	01/30/2015	1.00
272688	Steve	WALLER	Equipment Operator II	Yes	Yes	01/22/2015	1.00
100165	Dwight	WILLIAMS	Equipment Operator I	Yes	Yes	01/27/2015	1.00
110607	Franklin	WILLIAMS	Labor Supervisor	Yes	Yes	01/08/2015	1.00
300143	Leslie	WOOD	Equipment Operator II	Yes	Yes	01/22/2015	1.00

Class Name	CDL & The CMVSA-1029	**Instructor 1**	**Instructor 2**
Class Dates:	12/15/2015 - 12/15/2017	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
154423	Bernard	JONES	Equipment Operator II	Yes	Yes	01/27/2015	1.00

Class Name	Defensive Driving - BASIC / REFRESHER-1040	**Instructor 1**	**Instructor 2**
Class Dates:	12/16/2015 - 01/12/2016	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
301335	Rahsaan	West	Equipment Operator I	Yes	Yes	01/12/2016	8.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Emergency Response Plan-1003	**Instructor 1**		**Instructor 2**			
Class Dates:	01/15/2015 - 01/15/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	01/15/2015	0.50
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	01/15/2015	0.50
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	01/15/2015	0.50
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/15/2015	0.50
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	01/15/2015	0.50

Class Name	Emergency Response Plan-1003	**Instructor 1**		**Instructor 2**			
Class Dates:	03/11/2015 - 03/11/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	03/11/2015	0.50
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	03/11/2015	0.50
300800	Anthony	TILLMAN	Labor II	Yes	Yes	03/11/2015	0.50
300099	John	TYLER	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300803	Khalil	WOOD	Inspector I	Yes	Yes	03/11/2015	0.50

Class Name	Emergency Response Plan-1003	**Instructor 1**		**Instructor 2**			
Class Dates:	05/27/2015 - 05/27/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300856	Jammie	YATES	Refuse Collector	Yes	Yes	05/27/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Emergency Response Plan-1003	**Instructor 1**		**Instructor 2**			
Class Dates:	06/17/2015 - 06/17/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300892	Rider	HERNANDEZ	Labor II	Yes	Yes	06/17/2015	0.50
300894	Devon	SCOTT	Labor II	Yes	Yes	06/17/2015	0.50

Class Name	Emergency Response Plan-1003	**Instructor 1**		**Instructor 2**			
Class Dates:	09/03/2015 - 09/03/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	09/03/2015	0.50

Class Name	Erosion and Sediment Control-1101	**Instructor 1**		**Instructor 2**			
Class Dates:	11/08/2015 - 11/08/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
107745	Dale	NORMAN	Inspector II	Yes	Yes	11/18/2015	18.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	First Aid / CPR / AED-1014	**Instructor 1**	**Instructor 2**
Class Dates:	06/26/2015 - 06/26/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	06/26/2015	6.00
300099	John	TYLER	Equipment Operator II	Yes	Yes	06/26/2015	6.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	First Aid / CPR / AED-1014	**Instructor 1**	**Instructor 2**
Class Dates:	09/23/2015 - 09/23/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	09/23/2015	6.00
300795	William	BENSON	Labor Supervisor	Yes	Yes	09/23/2015	6.00
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	09/23/2015	6.00
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	09/23/2015	6.00
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	09/23/2015	6.00
300695	Sara	DeGROOT	Civil Engineer III	Yes	Yes	09/23/2015	6.00
300625	Filipe	IP	Civil Engineer III	Yes	Yes	09/23/2015	6.00
107710	Regina	KINCAID	Administrative Analyst	Yes	Yes	09/23/2015	6.00
274680	Patrick	McCRAY	Administrative Analyst	Yes	Yes	09/23/2015	6.00
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	09/23/2015	6.00
238900	Dwayne	PARTON	Assistant Superintendent	Yes	Yes	09/23/2015	6.00
260164	Brian	RAHAL	Civil Engineer IV	Yes	Yes	09/23/2015	6.00
239313	Mahjan	SALEH	Civil Engineer III	Yes	Yes	09/23/2015	6.00
261660	Emad	SALMAN	Assistant Impound Officer II	Yes	Yes	09/23/2015	6.00
300894	Devon	SCOTT	Labor II	Yes	Yes	09/23/2015	6.00
001523	Harold	SHAW	Supervisor, Maintenance Projects	Yes	Yes	09/23/2015	6.00
300800	Anthony	TILLMAN	Labor II	Yes	Yes	09/23/2015	6.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	First Aid / CPR / AED-1014	**Instructor 1**	**Instructor 2**
Class Dates:	09/23/2015 - 09/23/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
110607	Franklin	WILLIAMS	Labor Supervisor	Yes	Yes	09/23/2015	6.00
256193	Tony	WILLIAMS	Fiscal Analyst	Yes	Yes	09/23/2015	6.00
300803	Khalil	WOOD	Inspector I	Yes	Yes	09/23/2015	6.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Forklift Qualification & Certification-1015	**Instructor 1**		**Instructor 2**			
Class Dates:	06/02/2015 - 06/02/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300795	William	BENSON	Labor Supervisor	Yes	Yes	06/02/2015	4.00
238995	Andrew	SMITH	Labor II	Yes	Yes	08/26/2015	4.00
300143	Leslie	WOOD	Equipment Operator II	Yes	Yes	07/15/2015	4.00

Class Name	Forklift Qualification & Certification-1015	**Instructor 1**		**Instructor 2**			
Class Dates:	12/29/2015 - 12/29/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	No	06/02/2015	2.00
300209	Timothy	DODSON	Labor II	Yes	No	06/02/2015	2.00
300461	Michael	DOWNING	Labor III	Yes	No	06/02/2015	2.00
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	No	06/02/2015	2.00
300691	Shawn	MILLER	Labor Supervisor	Yes	No	06/02/2015	2.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	No	06/02/2015	2.00
150052	John	TAYLOR	Equipment Operator II	Yes	No	06/02/2015	2.00
300800	Anthony	TILLMAN	Labor II	Yes	No	06/02/2015	2.00
300099	John	TYLER	Equipment Operator II	Yes	No	06/02/2015	2.00
300803	Khalil	WOOD	Inspector I	Yes	No	06/02/2015	2.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	HazCom & GHS-1028	**Instructor 1**	**Instructor 2**				
Class Dates:	01/15/2015 - 01/15/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	01/15/2015	0.50
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	01/15/2015	0.50
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	01/15/2015	0.50
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/15/2015	0.50
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	01/15/2015	0.50

Class Name	HazCom & GHS-1028	**Instructor 1**	**Instructor 2**				
Class Dates:	03/11/2015 - 03/11/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300795	William	BENSON	Labor Supervisor	Yes	Yes	03/11/2015	0.50
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	03/11/2015	0.50
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	03/11/2015	0.50
300800	Anthony	TILLMAN	Labor II	Yes	Yes	03/11/2015	0.50
233224	Khoa	TRAN	Environmental Program Manager	Yes	Yes	03/11/2015	0.50
300099	John	TYLER	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300803	Khalil	WOOD	Inspector I	Yes	Yes	03/11/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	HazCom & GHS-1028	**Instructor 1**		**Instructor 2**			
Class Dates:	06/17/2015 - 06/17/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300892	Rider	HERNANDEZ	Labor II	Yes	Yes	06/17/2015	0.50
300894	Devon	SCOTT	Labor II	Yes	Yes	06/17/2015	0.50

Class Name	HazCom & GHS-1028	**Instructor 1**		**Instructor 2**			
Class Dates:	09/03/2015 - 09/03/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	09/03/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	NIMS / ICS 100-1061	**Instructor 1**	**Instructor 2**				
Class Dates:	02/20/2015 - 02/20/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
277540	Guarionex	Adorno	Survey Party Chief	Yes		02/20/2015	0.00

Class Name	NIMS / ICS 100-1061	**Instructor 1**	**Instructor 2**				
Class Dates:	03/19/2015 - 03/19/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
226519	Joseph	DANQUAH	Inspector II	Yes	Yes	03/19/2015	4.00

Class Name	NIMS / ICS 100-1061	**Instructor 1**	**Instructor 2**				
Class Dates:	04/24/2015 - 04/24/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	04/24/2015	4.00

Class Name	NIMS / ICS 100-1061	**Instructor 1**	**Instructor 2**				
Class Dates:	06/11/2015 - 06/11/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	06/11/2015	4.00
300625	Filipe	IP	Civil Engineer III	Yes	Yes	06/11/2015	4.00
274680	Patrick	McCRAY	Administrative Analyst	Yes	Yes	06/11/2015	4.00
226602	Katye	NORTH	Principal Planner	Yes	Yes	06/11/2015	4.00
300772	Ramond	ROBINSON	Division Chief, Transit	Yes	Yes	06/11/2015	4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	NIMS / ICS 100-1061		**Instructor 1**		**Instructor 2**		
Class Dates:	07/12/2015 - 07/12/2015		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
273257	Hillary	POOLE	Principal Planner	Yes	Yes	07/12/2015	4.00

Class Name	NIMS / ICS 100-1061		**Instructor 1**		**Instructor 2**		
Class Dates:	09/30/2015 - 09/30/2015		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300099	John	TYLER	Equipment Operator II	Yes	Yes	09/30/2015	4.00

Class Name	NIMS / ICS 100-1061		**Instructor 1**		**Instructor 2**		
Class Dates:	12/21/2015 - 12/21/2015		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	Yes	Yes	12/21/2015	4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name NIMS / ICS 200-1063 **Instructor 1** **Instructor 2**
Class Dates: 04/16/2015 - 04/16/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
001086	Richard	ASLANIAN	Assistant Superintendent	Yes	Yes	04/16/2015	4.00
273199	Nikeya	CUNNINGHAM	Program Analyst	Yes	Yes	04/16/2015	4.00
274386	Brian	LAWRENCE	Superintendent	Yes	Yes	04/16/2015	4.00

Class Name NIMS / ICS 200-1063 **Instructor 1** **Instructor 2**
Class Dates: 04/24/2015 - 04/24/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	04/24/2015	4.00

Class Name NIMS / ICS 200-1063 **Instructor 1** **Instructor 2**
Class Dates: 05/16/2015 - 05/16/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
111216	Alton	WEAVER	Division Chief, Resource Recovery	Yes	Yes	05/16/2015	4.00

Class Name NIMS / ICS 200-1063 **Instructor 1** **Instructor 2**
Class Dates: 10/02/2015 - 10/02/2015 **Location**

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300099	John	TYLER	Equipment Operator II	Yes	Yes	10/02/2015	4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	NIMS / ICS 200-1063		**Instructor 1**		**Instructor 2**		
Class Dates:	12/21/2015 - 12/31/2016		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	No			4.00

Class Name	NIMS / ICS 300-1065		**Instructor 1**		**Instructor 2**		
Class Dates:	12/21/2015 - 12/31/2016		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	No			24.00

Class Name	NIMS / ICS 400-1066		**Instructor 1**		**Instructor 2**		
Class Dates:	12/21/2015 - 12/31/2016		**Location**				
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	No			16.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	NIMS / ICS 700-1062	Instructor 1	Instructor 2				
Class Dates:	01/15/2015 - 01/15/2015	Location					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/15/2015	4.00

Class Name	NIMS / ICS 700-1062	Instructor 1	Instructor 2				
Class Dates:	02/26/2015 - 02/26/2015	Location					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
277540	Guarionex	Adorno	Survey Party Chief	Yes	Yes	02/26/2015	4.00

Class Name	NIMS / ICS 700-1062	Instructor 1	Instructor 2				
Class Dates:	03/19/2015 - 03/19/2015	Location					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
108389	Penny	FRAZIER	Engineering Aide I	Yes	Yes	03/19/2015	4.00
112438	Anna	TURNAGE	Engineering Aide II	Yes	Yes	03/19/2015	4.00

Class Name	NIMS / ICS 700-1062	Instructor 1	Instructor 2				
Class Dates:	04/28/2015 - 04/28/2015	Location					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	04/28/2015	4.00

Class Name	NIMS / ICS 700-1062	Instructor 1	Instructor 2				
Class Dates:	10/02/2015 - 10/02/2015	Location					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300099	John	TYLER	Equipment Operator II	Yes	Yes	10/02/2015	4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	NIMS / ICS 700-1062	**Instructor 1**	**Instructor 2**				
Class Dates:	12/21/2015 - 12/21/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	Yes	Yes	12/21/2015	4.00

Class Name	NIMS / ICS 800-1064	**Instructor 1**	**Instructor 2**				
Class Dates:	04/29/2015 - 04/29/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	04/29/2015	4.00

Class Name	NIMS / ICS 800-1064	**Instructor 1**	**Instructor 2**				
Class Dates:	12/21/2015 - 12/31/2016	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
260237	Jeremy	Hassan	Division Chief, PWS	No			4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Permit-Required Confined Spaces-1012	**Instructor 1**	**Instructor 2**
Class Dates:	04/14/2015 - 04/14/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	04/14/2015	7.00
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	04/14/2015	7.00
300209	Timothy	DODSON	Labor II	Yes	Yes	04/14/2015	7.00
300461	Michael	DOWNING	Labor III	Yes	Yes	04/14/2015	7.00
241857	Melvin	ENTWISLE	Inspector I	Yes	Yes	04/14/2015	7.00
134110	Michael	HAYNES	Heavy Equipment Operator	Yes	Yes	04/14/2015	7.00
255215	Keith	KEHLER	Heavy Equipment Operator	Yes	Yes	04/14/2015	7.00
235746	Thomas	KNIGHTON	Labor Supervisor	Yes	Yes	04/14/2015	7.00
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	04/14/2015	7.00
033019	Raymond	MONK	Labor II	Yes	Yes	04/14/2015	7.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	04/14/2015	7.00
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	04/14/2015	7.00
223908	Terry	STANLEY	Assistant Superintendent	Yes	Yes	04/14/2015	7.00
150052	John	TAYLOR	Equipment Operator II	Yes	Yes	04/14/2015	7.00
300800	Anthony	TILLMAN	Labor II	Yes	Yes	04/14/2015	7.00
300099	John	TYLER	Equipment Operator II	Yes	Yes	04/14/2015	7.00
110607	Franklin	WILLIAMS	Labor Supervisor	Yes	Yes	04/14/2015	7.00
300803	Khalil	WOOD	Inspector I	Yes	Yes	04/14/2015	7.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Cold-Stress Injuries-1083	**Instructor 1**	**Instructor 2**
Class Dates:	12/15/2015 - 12/15/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
001086	Richard	ASLANIAN	Assistant Superintendent	Yes	Yes	12/15/2015	0.50
092628	Carl	BILLMYER	Traffic Worker III	Yes	Yes	12/15/2015	0.50
081306	Ronnie	CAMPBELL	Traffic Signal Repair Worker	Yes	Yes	12/15/2015	0.50
273202	Jonathan	CARPENTER	Traffic Service Worker III	Yes	Yes	12/15/2015	0.50
224273	Kevin	GASKINS	Traffic Service Worker III	Yes	Yes	12/15/2015	0.50
274140	Anthony	GUIGNARD	Traffic Operations Technician	Yes	Yes	12/15/2015	0.50
006880	Clifton	HAMPTON	Traffic Service Worker III	Yes	Yes	12/15/2015	0.50
219962	Alvin	JEFFERSON	Traffic Signal Repair Worker	Yes	Yes	12/15/2015	0.50
233239	Abraham	KIFLE	Sign Fabricator	Yes	Yes	12/15/2015	0.50
268024	Arrian	MERCER	Traffic Signal Repair Worker	Yes	Yes	12/15/2015	0.50
272917	Vasile	NICHITA	Traffic Signal Repair Worker	Yes	Yes	12/15/2015	0.50
243693	Mike	OTACHI	Traffic Parking Meter Repair Worker	Yes	Yes	12/15/2015	0.50
255524	Ion	SAJIN	Supervisor, Traffic Signal Repair	Yes	Yes	12/15/2015	0.50
218260	Timothy	SYKES	Traffic Signal Meter Repair Worker	Yes	Yes	12/15/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Cold-Stress Injuries-1083	**Instructor 1**		**Instructor 2**			
Class Dates:	12/15/2015 - 12/15/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
075313	Lamont	WHITESIDE	Traffic Service Worker III	Yes	Yes	12/15/2015	0.50

Class Name	Preventing Cold-Stress Injuries-1083	**Instructor 1**		**Instructor 2**			
Class Dates:	12/17/2015 - 12/17/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	12/17/2015	1.00
278051	Carlos	ARROYO	Labor II	Yes	Yes	12/17/2015	1.00
300795	William	BENSON	Labor Supervisor	Yes	Yes	12/17/2015	1.00
275666	Flor De M Gomez	DUENAS	Labor II	Yes	Yes	12/17/2015	1.00
130734	Jose	GIL	Labor Supervisor	Yes	Yes	12/17/2015	1.00
255215	Keith	KEHLER	Heavy Equipment Operator	Yes	Yes	12/17/2015	1.00
064619	Delores	REYES	Labor II	Yes	Yes	12/17/2015	1.00
001523	Harold	SHAW	Supervisor, Maintenance Projects	Yes	Yes	12/17/2015	1.00
238995	Andrew	SMITH	Labor II	Yes	Yes	12/17/2015	1.00
029975	Larry	THOMPSON	Sewer Inspector	Yes	Yes	12/17/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Cold-Stress Injuries-1083	**Instructor 1**		**Instructor 2**			
Class Dates:	12/18/2015 - 12/18/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
144589	Antonio	ARNOLD	Inspector II	Yes	Yes	12/18/2015	0.25
226519	Joseph	DANQUAH	Inspector II	Yes	Yes	12/18/2015	0.25
026633	Brenda	HALL	Inspector II	Yes	Yes	12/18/2015	0.25
056051	Robert	KIRK	Inspector II	Yes	Yes	12/18/2015	0.25
201824	Randy	MERRITT	Inspector III	Yes	Yes	12/18/2015	0.25

Class Name	Preventing Cold-Stress Injuries-1083	**Instructor 1**		**Instructor 2**			
Class Dates:	12/18/2015 - 01/04/2016	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
011980	Kenneth	DOWNING	Inspector II	Yes	Yes	12/18/2015	0.25

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	02/02/2015 - 02/02/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
225053	Mark	ARNOLD	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
154169	Thurman	BLAKENEY	Refuse Collector	Yes	Yes	02/02/2015	1.00
073522	William	BROOKS	Refuse Collector	Yes	Yes	02/02/2015	1.00
089271	Cleotis	BROWN	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
060597	Michael	BROWN	Equipment Operator II	Yes	Yes	02/02/2015	1.00
067682	Bobby	CARPENTER	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
113429	Joe	CHAMBERS	Refuse Collector	Yes	Yes	02/02/2015	1.00
041911	Melvin	DOUGLAS	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
119405	George	GRAY	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
245366	Vincent	GREEN	Equipment Operator II	Yes	Yes	02/02/2015	1.00
150685	Excell	HART	Sanitation Inspector	Yes	Yes	02/02/2015	1.00
239393	Anthony	JAMES	Refuse Collector	Yes	Yes	02/02/2015	1.00
266748	Kenneth	JOHNSON	Assistant Superintendent	Yes	Yes	02/02/2015	1.00
154423	Bernard	JONES	Equipment Operator II	Yes	Yes	02/02/2015	1.00
070868	Patrick	KIRBY	Refuse Collector	Yes	Yes	02/02/2015	1.00
092902	Angela	LYNCH	Assistant Superintendent	Yes	Yes	02/02/2015	1.00
235462	Davis	McCoy	Superintendent	Yes	Yes	02/02/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	02/02/2015 - 02/02/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
239431	Daryl	PRICE	Refuse Collector	Yes	Yes	02/02/2015	1.00
205657	James	RAINEY	Refuse Collector	Yes	Yes	02/02/2015	1.00
077300	Jessie	REDFEARN	Heavy Equipment Operator	Yes	Yes	02/02/2015	1.00
206902	Gregory	TALBERT	Refuse Collector	Yes	Yes	02/02/2015	1.00
051659	Thomas	WATKINS	Refuse Collector	Yes	Yes	02/02/2015	1.00
100165	Dwight	WILLIAMS	Equipment Operator I	Yes	Yes	02/02/2015	1.00
300856	Jammie	YATES	Refuse Collector	Yes	Yes	02/02/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	04/08/2015 - 04/08/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
274748	Bernard	BANKS	Equipment Operator II	Yes	Yes	04/08/2015	1.00
216984	Willie	BANKS	Refuse Collector	Yes	Yes	04/08/2015	1.00
261811	Eric	BANNISTER	Labor I	Yes	Yes	04/08/2015	1.00
266866	Arthur	BYRD	Equipment Operator II	Yes	Yes	04/08/2015	1.00
300470	Gregory	DAVIS	Equipment Operator II	Yes	Yes	04/08/2015	1.00
256055	Joseph	GORDON	Equipment Operator I	Yes	Yes	04/08/2015	1.00
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	04/08/2015	1.00
105994	Charles	HUGHES	Motor Vehicle Operator	Yes	Yes	04/08/2015	1.00
154272	Mark	JOHNSON	Labor Supervisor	Yes	Yes	04/08/2015	1.00
110383	George	MARTIN	Labor III	Yes	Yes	04/08/2015	1.00
267284	Darnell	MOORE	Equipment Operator II	Yes	Yes	04/08/2015	1.00
239426	Robert	NICHOLSON	Refuse Collector	Yes	Yes	04/08/2015	1.00
274484	Rodney	PITTS	Equipment Operator II	Yes	Yes	04/08/2015	1.00
272688	Steve	WALLER	Equipment Operator II	Yes	Yes	04/08/2015	1.00
300143	Leslie	WOOD	Equipment Operator II	Yes	Yes	04/08/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	05/26/2015 - 05/26/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
144589	Antonio	ARNOLD	Inspector II	Yes	Yes	05/26/2015	1.00
226519	Joseph	DANQUAH	Inspector II	Yes	Yes	05/26/2015	1.00
026633	Brenda	HALL	Inspector II	Yes	Yes	05/26/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	06/18/2015 - 06/18/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	06/18/2015	1.00
300209	Timothy	DODSON	Labor II	Yes	Yes	06/18/2015	1.00
300461	Michael	DOWNING	Labor III	Yes	Yes	06/18/2015	1.00
241857	Melvin	ENTWISLE	Inspector I	Yes	Yes	06/18/2015	1.00
134110	Michael	HAYNES	Heavy Equipment Operator	Yes	Yes	06/18/2015	1.00
255215	Keith	KEHLER	Heavy Equipment Operator	Yes	Yes	06/18/2015	1.00
235746	Thomas	KNIGHTON	Labor Supervisor	Yes	Yes	06/18/2015	1.00
033019	Raymond	MONK	Labor II	Yes	Yes	06/18/2015	1.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	06/18/2015	1.00
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	06/18/2015	1.00
300894	Devon	SCOTT	Labor II	Yes	Yes	06/18/2015	1.00
223908	Terry	STANLEY	Assistant Superintendent	Yes	Yes	06/18/2015	1.00
150052	John	TAYLOR	Equipment Operator II	Yes	Yes	06/18/2015	1.00
300800	Anthony	TILLMAN	Labor II	Yes	Yes	06/18/2015	1.00
110607	Franklin	WILLIAMS	Labor Supervisor	Yes	Yes	06/18/2015	1.00
300803	Khalil	WOOD	Inspector I	Yes	Yes	06/18/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	06/25/2015 - 06/25/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
092628	Carl	BILLMYER	Traffic Worker III	Yes	Yes	06/25/2015	1.00
224273	Kevin	GASKINS	Traffic Service Worker III	Yes	Yes	06/25/2015	1.00
274140	Anthony	GUIGNARD	Traffic Operations Technician	Yes	Yes	06/25/2015	1.00
219962	Alvin	JEFFERSON	Traffic Signal Repair Worker	Yes	Yes	06/25/2015	1.00
127583	Ed	JOHNSON	Traffic Service Worker III	Yes	Yes	06/25/2015	1.00
233239	Abraham	KIFLE	Sign Fabricator	Yes	Yes	06/25/2015	1.00
231237	Matthew	MELKERSON	Division Chief, Traffic Operations	Yes	Yes	06/25/2015	1.00
268024	Arrian	MERCER	Traffic Signal Repair Worker	Yes	Yes	06/25/2015	1.00
272917	Vasile	NICHITA	Traffic Signal Repair Worker	Yes	Yes	06/25/2015	1.00
243693	Mike	OTACHI	Traffic Parking Meter Repair Worker	Yes	Yes	06/25/2015	1.00
255524	Ion	SAJIN	Supervisor, Traffic Signal Repair	Yes	Yes	06/25/2015	1.00
218260	Timothy	SYKES	Traffic Signal Meter Repair Worker	Yes	Yes	06/25/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Preventing Heat-Related Illness-1080	**Instructor 1**	**Instructor 2**
Class Dates:	07/16/2015 - 07/16/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	07/16/2015	0.50
275666	Flor De M Gomez	DUENAS	Labor II	Yes	Yes	07/16/2015	1.00
130734	Jose	GIL	Labor Supervisor	Yes	Yes	07/16/2015	1.00
261140	William	JONES	Labor III	Yes	Yes	07/16/2015	1.00
066131	Juan	KILPATRICK	Labor III	Yes	Yes	07/16/2015	1.00
238995	Andrew	SMITH	Labor II	Yes	Yes	07/16/2015	1.00
029975	Larry	THOMPSON	Sewer Inspector	Yes	Yes	07/16/2015	1.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Reverse Signaling & The Ground Guide-1081	**Instructor 1**		**Instructor 2**			
Class Dates:	01/15/2015 - 01/15/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	01/15/2015	0.50
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	01/15/2015	0.50
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/15/2015	0.50
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	01/15/2015	0.50

Class Name	Reverse Signaling & The Ground Guide-1081	**Instructor 1**		**Instructor 2**			
Class Dates:	03/11/2015 - 03/11/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300795	William	BENSON	Labor Supervisor	Yes	Yes	03/11/2015	0.50
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	03/11/2015	0.50
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	03/11/2015	0.50
300800	Anthony	TILLMAN	Labor II	Yes	Yes	03/11/2015	0.50
300099	John	TYLER	Equipment Operator II	Yes	Yes	03/11/2015	0.50
300803	Khalil	WOOD	Inspector I	Yes	Yes	03/11/2015	0.50

Class Name	Reverse Signaling & The Ground Guide-1081	**Instructor 1**		**Instructor 2**			
Class Dates:	05/27/2015 - 05/27/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300856	Jammie	YATES	Refuse Collector	Yes	Yes	05/27/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Reverse Signaling & The Ground Guide-1081	**Instructor 1**		**Instructor 2**			
Class Dates:	06/17/2015 - 06/17/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300892	Rider	HERNANDEZ	Labor II	Yes	Yes	06/17/2015	0.50
300894	Devon	SCOTT	Labor II	Yes	Yes	06/17/2015	0.50

Class Name	Reverse Signaling & The Ground Guide-1081	**Instructor 1**		**Instructor 2**			
Class Dates:	09/03/2015 - 09/03/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	09/03/2015	0.50

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**
Class Dates:	01/15/2015 - 01/15/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	01/15/2015	4.00
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	01/15/2015	4.00
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	01/15/2015	4.00
300560	Cornelius	HAWKINS	Equipment Operator II	Yes	Yes	01/15/2015	4.00
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	01/15/2015	4.00

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**
Class Dates:	03/11/2015 - 03/11/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300775	Zoubair	AMARCHIH	Equipment Operator II	Yes	Yes	03/11/2015	4.00
300795	William	BENSON	Labor Supervisor	Yes	Yes	03/11/2015	4.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	03/11/2015	4.00
055937	Guillermo	PAZ	Equipment Operator I	Yes	Yes	03/11/2015	4.00
300800	Anthony	TILLMAN	Labor II	Yes	Yes	03/11/2015	4.00
300099	John	TYLER	Equipment Operator II	Yes	Yes	03/11/2015	4.00
300803	Khalil	WOOD	Inspector I	Yes	Yes	03/11/2015	4.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**				
Class Dates:	05/27/2015 - 05/27/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300856	Jammie	YATES	Refuse Collector	Yes	Yes	05/27/2015	4.00

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**				
Class Dates:	06/17/2015 - 06/17/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300892	Rider	HERNANDEZ	Labor II	Yes	Yes	06/17/2015	4.00
300894	Devon	SCOTT	Labor II	Yes	Yes	06/17/2015	4.00

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**				
Class Dates:	09/03/2015 - 09/03/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
301295	Jose	Morales	Superintendent of Traffic OPS	Yes	Yes	09/03/2015	3.25

Class Name	Safety Orientation-1025	**Instructor 1**	**Instructor 2**				
Class Dates:	12/28/2015 - 12/28/2015	**Location**					
Employee ID	**First Name**	**Last Name**	**Job Title**	**Attended Class**	**Passed Class**	**Date Grade Received**	**Hours Attended**
300574	Glenn	Willison	Labor I	Yes	Yes	01/20/2016	3.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	VDOT Basic WZTC-1023	**Instructor 1**	**Instructor 2**
Class Dates:	02/12/2015 - 02/12/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
300667	Francisco	DOMINGUEZ	Public Works Services Coordinator	Yes	Yes	02/12/2015	8.00
130734	Jose	GIL	Labor Supervisor	Yes	Yes	02/12/2015	8.00
255215	Keith	KEHLER	Heavy Equipment Operator	Yes	Yes	02/12/2015	8.00
235746	Thomas	KNIGHTON	Labor Supervisor	Yes	Yes	02/12/2015	8.00
268024	Arrian	MERCER	Traffic Signal Repair Worker	Yes	Yes	02/12/2015	8.00
300691	Shawn	MILLER	Labor Supervisor	Yes	Yes	02/12/2015	8.00
107745	Dale	NORMAN	Inspector II	Yes	Yes	02/12/2015	8.00
001523	Harold	SHAW	Supervisor, Maintenance Projects	Yes	Yes	02/12/2015	8.00
029975	Larry	THOMPSON	Sewer Inspector	Yes	Yes	02/12/2015	8.00
112438	Anna	TURNAGE	Engineering Aide II	Yes	Yes	02/12/2015	8.00
300143	Leslie	WOOD	Equipment Operator II	Yes	Yes	02/12/2015	8.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	VDOT Flagging-1024	**Instructor 1**	**Instructor 2**
Class Dates:	07/09/2015 - 07/09/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
153221	Isidro	DAVILA-LEON	Labor Supervisor	Yes	Yes	07/09/2015	2.00
300209	Timothy	DODSON	Labor II	Yes	Yes	07/09/2015	2.00
300461	Michael	DOWNING	Labor III	Yes	Yes	07/09/2015	2.00
024817	William	FLERLAGE	Instrument Operator	Yes	Yes	07/09/2015	2.00
048928	Edgar	GARAND	Equipment Operator I	Yes	Yes	07/09/2015	2.00
027953	Robert	GORDY	Instrument Operator	Yes	Yes	07/09/2015	2.00
300892	Rider	HERNANDEZ	Labor II	Yes	Yes	07/09/2015	2.00
154272	Mark	JOHNSON	Labor Supervisor	Yes	Yes	07/09/2015	2.00
261140	William	JONES	Labor III	Yes	Yes	07/09/2015	2.00
035586	Thomas	KENNEDY	Land Survey Analyst	Yes	Yes	07/09/2015	2.00
300799	John	NICODEMUS	Heavy Equipment Operator	Yes	Yes	07/09/2015	2.00
300894	Devon	SCOTT	Labor II	Yes	Yes	07/09/2015	2.00
150052	John	TAYLOR	Equipment Operator II	Yes	Yes	07/09/2015	2.00
300800	Anthony	TILLMAN	Labor II	Yes	Yes	07/09/2015	2.00
300099	John	TYLER	Equipment Operator II	Yes	Yes	07/09/2015	2.00
272688	Steve	WALLER	Equipment Operator II	Yes	Yes	07/09/2015	2.00

Training Class Roster

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Class Name	VDOT Intermediate WZTC-1022	**Instructor 1**	**Instructor 2**
Class Dates:	02/19/2015 - 02/19/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
144589	Antonio	ARNOLD	Inspector II	Yes	Yes	02/19/2015	16.00
001086	Richard	ASLANIAN	Assistant Superintendent	Yes	Yes	02/19/2015	16.00
226519	Joseph	DANQUAH	Inspector II	Yes	Yes	02/19/2015	16.00
274140	Anthony	GUIGNARD	Traffic Operations Technician	Yes	Yes	02/19/2015	16.00
026633	Brenda	HALL	Inspector II	Yes	Yes	02/19/2015	16.00
224082	Kimberly	MERRITT	Civil Engineer I	Yes	Yes	02/19/2015	16.00
255524	Ion	SAJIN	Supervisor, Traffic Signal Repair	Yes	Yes	02/19/2015	16.00

Class Name	VDOT Intermediate WZTC-1022	**Instructor 1**	**Instructor 2**
Class Dates:	08/13/2015 - 08/13/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
241857	Melvin	ENTWISLE	Inspector I	Yes	Yes	08/13/2015	16.00
201824	Randy	MERRITT	Inspector III	Yes	Yes	08/13/2015	16.00
300803	Khalil	WOOD	Inspector I	Yes	Yes	08/13/2015	16.00

Class Name	VDOT Intermediate WZTC-1022	**Instructor 1**	**Instructor 2**
Class Dates:	10/22/2015 - 10/22/2015	**Location**	

Employee ID	First Name	Last Name	Job Title	Attended Class	Passed Class	Date Grade Received	Hours Attended
261419	Derek	CLAYTOR	Superintendent	Yes	Yes	10/22/2015	16.00

Facility: All
Worker Type: All Supervisor Name: All
Training Class Category: All Class Name: All Instructor 1: All
Date Range: 1/1/2015 - 12/31/2015

Report Totals

Class Name	Number Conducted	Employees Enrolled	Employees Attended		Employees Passed	
			Number	Percent	Number	Percent
Aerial Lift & Bucket Truck Qualification & Certification	7	7	7	100%	7	100%
CDL & The CMVSA	49	49	47	96%	47	100%
Defensive Driving - BASIC / REFRESHER	1	1	1	100%	1	100%
Emergency Response Plan	10	15	15	100%	15	100%
Erosion and Sediment Control	1	1	1	100%	1	100%
First Aid / CPR / AED	9	22	22	100%	22	100%
Forklift Qualification & Certification	11	13	13	100%	3	23%
HazCom & GHS	4	16	16	100%	16	100%
NIMS / ICS 100	7	11	11	100%	10	91%
NIMS / ICS 200	5	7	6	86%	6	100%
NIMS / ICS 300	1	1	0	0%	0	0%
NIMS / ICS 400	1	1	0	0%	0	0%
NIMS / ICS 700	6	7	7	100%	7	100%
NIMS / ICS 800	2	2	1	50%	1	100%
Permit-Required Confined Spaces	1	18	18	100%	18	100%
Preventing Cold-Stress Injuries	31	31	31	100%	31	100%
Preventing Heat-Related Illness	8	77	77	100%	77	100%
Reverse Signaling & The Ground Guide	5	15	15	100%	15	100%
Safety Orientation	6	17	17	100%	17	100%
VDOT Basic WZTC	1	11	11	100%	11	100%
VDOT Flagging	1	16	16	100%	16	100%
VDOT Intermediate WZTC	4	11	11	100%	11	100%
Totals	**171**	**349**	**343**	**98%**	**332**	**97%**

Number of Training Hours

Employee Name	Employee ID	Training Hours

AMARCHIH, Zoubair	300775	16.00
ARNOLD, Antonio	144589	17.25
ARNOLD, Mark	225053	2.00
ARROYO, Carlos	278051	2.00
ASLANIAN, Richard	001086	20.50
Adorno, Guarionex	277540	4.00
Allen, Jeanelle	300285	1.00
BANKS, Bernard	274748	2.00
BANKS, Willie	216984	1.00
BANNISTER, Eric	261811	1.00
BENSON, William	300795	17.00
BERMUDEZ, Jeremias	300523	1.00
BILLMYER, Carl	092628	1.50
BLAKENEY, Thurman	154169	1.00
BROOKS, William	073522	1.00
BROWN, Cleotis	089271	2.00
BROWN, Michael	060597	2.00
BYRD, Arthur	266866	2.00
CAMPBELL, Ronnie	081306	8.50
CARPENTER, Bobby	067682	2.00
CARPENTER, Jonathan	273202	0.50
CHAMBERS, Joe	113429	1.00
CLAYTOR, Derek	261419	34.50
CUNNINGHAM, Nikeya	273199	4.00
DANQUAH, Joseph	226519	21.25
DAVILA-LEON, Isidro	153221	22.00
DAVIS, Gregory	300470	2.00
DODSON, Timothy	300209	12.00
DOMINGUEZ, Francisco	300667	23.50
DOUGLAS, Melvin	041911	2.00
DOWNING, Kenneth	011980	0.25
DOWNING, Michael	300461	13.00
DUENAS, Flor De M Gomez	275666	2.00
DeGROOT, Sara	300695	6.00
ENTWISLE, Melvin	241857	25.00
FLERLAGE, William	024817	2.00
FRAZIER, Penny	108389	4.00

FULLER, Kenneth	142072	1.00
GARAND, Edgar	048928	2.00
GASKINS, Kevin	224273	1.50
GIL, Jose	130734	11.00
GORDON, Joseph	256055	1.00
GORDY, Robert	027953	2.00
GRAY, George	119405	2.00
GREEN, Vincent	245366	2.00
GUIGNARD, Anthony	274140	17.50
HALL, Brenda	026633	17.25
HAMPTON, Clifton	006880	8.50
HART, Excell	150685	1.00
HAWKINS, Cornelius	300560	13.50
HAYNES, Michael	134110	9.00
HERNANDEZ, Rider	300892	7.50
HOLMES, Herbert	255946	1.00
HUGHES, Charles	105994	1.00
Hassan, Jeremy	260237	56.00
Hawes, Ian	301341	1.00
IP, Filipe	300625	10.00
JAMES, Anthony	239393	1.00
JEFFERSON, Alvin	219962	1.50
JOHNSON, Ed	127583	9.00
JOHNSON, Kenneth	266748	2.00
JOHNSON, Mark	154272	4.00
JONES, Bernard	154423	2.00
JONES, William	261140	4.00
KEHLER, Keith	255215	18.00
KENNEDY, Thomas	035586	2.00
KIFLE, Abraham	233239	1.50
KILPATRICK, Juan	066131	2.00
KINCAID, Regina	107710	6.00
KIRBY, Patrick	070868	1.00
KIRK, Robert	056051	0.25
KNIGHTON, Thomas	235746	17.00
LAWRENCE, Brian	274386	4.00
LYNCH, Angela	092902	2.00

MARTIN, George	110383	2.00
MELKERSON, Matthew	231237	1.00
MERCER, Arrian	268024	17.50
MERRITT, Kimberly	224082	16.00
MERRITT, Randy	201824	16.25
MILLER, Shawn	300691	44.50
MONK, Raymond	033019	8.00
MOORE, Darnell	267284	2.00
McCRAY, Patrick	274680	10.00
McCoy, Davis	235462	2.00
Morales, Jose	301295	18.75
NICHITA, Vasile	272917	9.50
NICHOLSON, Robert	239426	1.00
NICODEMUS, John	300799	18.50
NORMAN, Dale	107745	26.00
NORTH, Katye	226602	4.00
OTACHI, Mike	243693	1.50
PARTON, Dwayne	238900	7.00
PAZ, Guillermo	055937	14.50
PITTS, Rodney	274484	2.00
POOLE, Hillary	273257	4.00
PRICE, Daryl	239431	1.00
RAHAL, Brian	260164	6.00
RAINEY, James	205657	1.00
REDFEARN, Jessie	077300	2.00
REYES, Delores	064619	1.00
ROBINSON, Ramond	300772	4.00
SAJIN, Ion	255524	25.50
SALEH, Mahjan	239313	6.00
SALMAN, Emad	261660	6.00
SCOTT, Devon	300894	14.50
SHAW, Harold	001523	16.00
SMITH, Andrew	238995	6.00
STANLEY, Terry	223908	8.00
SYKES, Timothy	218260	1.50
TALBERT, Gregory	206902	1.00
TAYLOR, John	150052	13.00

THOMPSON, Larry	029975	11.00
TILLMAN, Anthony	300800	23.50
TRAN, Khoa	233224	0.50
TURNAGE, Anna	112438	12.00
TYLER, John	300099	35.50
WALLER, Steve	272688	4.00
WATKINS, Thomas	051659	1.00
WEAVER, Alton	111216	4.00
WHITESIDE, Lamont	075313	0.50
WILLIAMS, Dwight	100165	2.00
WILLIAMS, Franklin	110607	15.00
WILLIAMS, Tony	256193	6.00
WOOD, Khalil	300803	37.50
WOOD, Leslie	300143	14.00
West, Rahsaan	301335	8.00
Willison, Glenn	300574	3.00
YATES, Jammie	300856	6.00
Total Training Hours		**1,044.75**

Instructor Name	**Instructor Hours**
JONI MERRICK	8.00
Total Instructor Hours	**8.00**

Appendix F

Record of Street Sweeping

Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems	Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems
1/1/2015	N/A	Weather	Sweeping suspended	**2/1/2015**	N/A	Weather	Sweeping suspended
1/2/2015	N/A	Weather	Sweeping suspended	**2/2/2015**	N/A	Weather	Sweeping suspended
1/3/2015	N/A	Weather	Sweeping suspended	**2/3/2015**	N/A	Weather	Sweeping suspended
1/4/2015	N/A	Weather	Sweeping suspended	**2/4/2015**	N/A	Weather	Sweeping suspended
1/5/2015	N/A	Weather	Sweeping suspended	**2/5/2015**	N/A	Weather	Sweeping suspended
1/6/2015	N/A	Weather	Sweeping suspended	**2/6/2015**	N/A	Weather	Sweeping suspended
1/7/2015	N/A	Weather	Sweeping suspended	**2/7/2015**	N/A	Weather	Sweeping suspended
1/8/2015	N/A	Weather	Sweeping suspended	**2/8/2015**	N/A	Weather	Sweeping suspended
1/9/2015	N/A	Weather	Sweeping suspended	**2/9/2015**	N/A	Weather	Sweeping suspended
1/10/2015	N/A	Weather	Sweeping suspended	**2/10/2015**	N/A	Weather	Sweeping suspended
1/11/2015	N/A	Weather	Sweeping suspended	**2/11/2015**	N/A	Weather	Sweeping suspended
1/12/2015	N/A	Weather	Sweeping suspended	**2/12/2015**	N/A	Weather	Sweeping suspended
1/13/2015	N/A	Weather	Sweeping suspended	**2/13/2015**	N/A	Weather	Sweeping suspended
1/14/2015	N/A	Weather	Sweeping suspended	**2/14/2015**	N/A	Weather	Sweeping suspended
1/15/2015	N/A	Weather	Sweeping suspended	**2/15/2015**	N/A	Weather	Sweeping suspended
1/16/2015	N/A	Weather	Sweeping suspended	**2/16/2015**	N/A	Weather	Sweeping suspended
1/17/2015	N/A	Weather	Sweeping suspended	**2/17/2015**	N/A	Weather	Sweeping suspended
1/18/2015	N/A	Weather	Sweeping suspended	**2/18/2015**	N/A	Weather	Sweeping suspended
1/19/2015	N/A	Weather	Sweeping suspended	**2/19/2015**	N/A	Weather	Sweeping suspended
1/20/2015	N/A	Weather	Sweeping suspended	**2/20/2015**	N/A	Weather	Sweeping suspended
1/21/2015	N/A	Weather	Sweeping suspended	**2/21/2015**	N/A	Weather	Sweeping suspended
1/22/2015	N/A	Weather	Sweeping suspended	**2/22/2015**	N/A	Weather	Sweeping suspended
1/23/2015	N/A	Weather	Sweeping suspended	**2/23/2015**	N/A	Weather	Sweeping suspended
1/24/2015	N/A	Weather	Sweeping suspended	**2/24/2015**	N/A	Weather	Sweeping suspended
1/25/2015	N/A	Weather	Sweeping suspended	**2/25/2015**	N/A	Weather	Sweeping suspended
1/26/2015	N/A	Weather	Sweeping suspended	**2/26/2015**	N/A	Weather	Sweeping suspended
1/27/2015	N/A	Weather	Sweeping suspended	**2/27/2015**	N/A	Weather	Sweeping suspended
1/28/2015	N/A	Weather	Sweeping suspended	**2/28/2015**	N/A	Weather	Sweeping suspended
1/29/2015	N/A	Weather	Sweeping suspended				
1/30/2015	N/A	Weather	Sweeping suspended				

1/31/2015	N/A	Weather	Sweeping suspended					
Total Miles:			**0**		**Total Miles:**			**0**

Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems	Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems
3/1/2015	N/A	Weather	Sweeping suspended	**4/1/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
3/2/2015	N/A	Weather	Sweeping suspended	**4/2/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
3/3/2015	N/A	Weather	Sweeping suspended	**4/3/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
3/4/2015	N/A	Weather	Sweeping suspended	**4/4/2015**			Weekend
3/5/2015	N/A	Weather	Sweeping suspended	**4/5/2015**			Easter
3/6/2015	N/A	Weather	Sweeping suspended	**4/6/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
3/7/2015	N/A	Weather	Sweeping suspended	**4/7/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
3/8/2015	N/A	Weather	Sweeping suspended	**4/8/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
3/9/2015	N/A	Weather	Sweeping suspended	**4/9/2015**	4216 / 4229	3	No Parking/ Sweeping/ Night Sweeping
3/10/2015	N/A	Weather	Sweeping suspended	**4/10/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
3/11/2015	N/A	Weather	Sweeping suspended	**4/11/2015**			Weekend
3/12/2015	N/A	Weather	Sweeping suspended	**4/12/2015**			Weekend

3/13/2015	N/A	Weather	Sweeping suspended		**4/13/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
3/14/2015	N/A	Weather	Sweeping suspended		**4/14/2015**	4216 / 4229	3	No Parking/ Sweeping/ Night Sweeping
3/15/2015	N/A	Weather	Sweeping suspended		**4/15/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
3/16/2015	N/A	Weather	Sweeping suspended		**4/16/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
3/17/2015	N/A	Weather	Sweeping suspended		**4/17/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
3/18/2015	N/A	Weather	Sweeping suspended		**4/18/2015**			Weekend
3/19/2015	N/A	Weather	Sweeping suspended		**4/19/2015**			Weekend
3/20/2015	N/A	Weather	Sweeping suspended		**4/20/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
3/21/2015	N/A	Weather	Sweeping suspended		**4/21/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
3/22/2015	N/A	Weather	Sweeping suspended		**4/22/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
3/23/2015	N/A	Weather	Sweeping suspended		**4/23/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
3/24/2015	N/A	Weather	Sweeping suspended		**4/24/2015**	4216 / 4229	3	No Parking/ Sweeping/ Night Sweeping

3/25/2015	N/A	Weather	Sweeping suspended		**4/25/2015**			Weekend
3/26/2015	N/A	Weather	Sweeping suspended		**4/26/2015**			Weekend
3/27/2015	N/A	Weather	Sweeping suspended		**4/27/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
3/28/2015	N/A	Weather	Sweeping suspended		**4/28/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
3/29/2015	N/A	Weather	Sweeping suspended		**4/29/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
3/30/2015	N/A	Weather	Sweeping suspended		**4/30/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
3/31/2015	N/A	Weather	Sweeping suspended					
Total Miles:			**0**		**Total Miles:**			**135**

Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems	Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/ Unusual Problems
5/1/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping	**6/1/2015**	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping
5/2/2015			Weekend	**6/2/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
5/3/2015			Weekend	**6/3/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
5/4/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping	**6/4/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
5/5/2015	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping	**6/5/2015**	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping
5/6/2015	4216 / 4229	2	No Parking/ Sweeping/ Night Sweeping	**6/6/2015**			Weekend

5/7/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**6/7/2015**			Weekend
5/8/2015	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping		**6/8/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
5/9/2015			Weekend		**6/9/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
5/10/2015			Weekend		**6/10/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
5/11/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping		**6/11/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
5/12/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**6/12/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
5/13/2015	4216 / 4229	3	No Parking/ Sweeping/ Night Sweeping		**6/13/2015**			Weekend

5/14/2015	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping		**6/14/2015**			Weekend
5/15/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping		**6/15/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
5/16/2015			Weekend		**6/16/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
5/17/2015			Weekend		**6/17/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
5/18/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping		**6/18/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
5/19/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping		**6/19/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
5/20/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**6/20/2015**			Weekend

5/21/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping		**6/21/2015**			Weekend
5/22/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping		**6/22/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
5/23/2015			Weekend		**6/23/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
5/24/2015			Weekend		**6/24/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
5/25/2015			Holiday		**6/25/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
5/26/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping		**6/26/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
5/27/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping		**6/27/2015**			Weekend

5/28/2015	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping	**6/28/2015**			Weekend
5/29/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping	**6/29/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
5/30/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping	**6/30/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
5/31/2015			Weekend				
Total Miles:			**134**	**Total Miles:**			**175**

Date	**Type of Cleaning (Truck or Hand)**	**Estimated Linear Miles Cleaned**	**Comments/Unusual Problems**	**Date**	**Type of Cleaning (Truck or Hand)**	**Estimated Linear Miles Cleaned**	**Comments/ Unusual Problems**
7/1/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping	**8/1/2015**			Weekend
7/2/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping	**8/2/2015**			Weekend

7/3/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping		**8/3/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
7/4/2015			Holiday		**8/4/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
7/5/2015			Weekend		**8/5/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
7/6/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**8/6/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
7/7/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping		**8/7/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
7/8/2015	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping		**8/8/2015**			Weekend
7/9/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping		**8/9/2015**			Weekend

7/10/2015	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping		**8/10/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
7/11/2015			Weekend		**8/11/2015**	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping
7/12/2015			Weekend		**8/12/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
7/13/2015	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping		**8/13/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
7/14/2015	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping		**8/14/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
7/15/2015	4216 / 4229	16	No Parking/ Sweeping/ Night Sweeping		**8/15/2015**			Weekend
7/16/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**8/16/2015**			Weekend

7/17/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping		**8/17/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
7/18/2015			Weekend		**8/18/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
7/19/2015			Weekend		**8/19/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
7/20/2015	4216 / 4229	15	No Parking/ Sweeping/ Night Sweeping		**8/20/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
7/21/2015	4216 / 4229	13	No Parking/ Sweeping/ Night Sweeping		**8/21/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
7/22/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping		**8/22/2015**			Weekend
7/23/2015	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping		**8/23/2015**			Weekend

7/24/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping		**8/24/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
7/25/2015			Weekend		**8/25/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
7/26/2015			Weekend		**8/26/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
7/27/2015	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping		**8/27/2015**	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
7/28/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping		**8/28/2015**	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping
7/29/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping		**8/29/2015**			Weekend
7/30/2015	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping		**8/30/2015**			Weekend

7/31/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping		**8/31/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
Total Miles:			**208**					**169**

Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems
9/1/2015	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping
9/2/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
9/3/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
9/4/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
9/5/2015			Weekend
9/6/2015			Weekend
9/7/2015			Holiday
9/8/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
9/9/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
9/10/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping

Date	Type of Cleaning (Truck or Hand)	Estimated Linear Miles Cleaned	Comments/Unusual Problems
10/1/2015	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping
10/2/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
10/3/2015			Weekend
10/4/2015			Weekend
10/5/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
10/6/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
10/7/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
10/8/2015	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping
10/9/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping
10/10/2015			Weekend

9/11/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping		**10/11/2015**			Weekend
9/12/2015			Weekend		**10/12/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
9/13/2015			Weekend		**10/13/2015**	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping
9/14/2015	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping		**10/14/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
9/15/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping		**10/15/2015**	4216 / 4229	13	No Parking/ Sweeping/ Night Sweeping
9/16/2015	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping		**10/16/2015**	4216 / 4229	11	No Parking/ Sweeping/ Night Sweeping
9/17/2015	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping		**10/17/2015**			Weekend
9/18/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping		**10/18/2015**			Weekend
9/19/2015			Weekend		**10/19/2015**	4216 / 4229	7	No Parking/ Sweeping/ Night Sweeping
9/20/2015			Weekend		**10/20/2015**	4216 / 4229	6	No Parking/ Sweeping/ Night Sweeping
9/21/2015	4216 / 4229	17	No Parking/ Sweeping/ Night Sweeping		**10/21/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping

9/22/2015	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping	**10/22/2015**	4216 / 4229	5	No Parking/ Sweeping/ Night Sweeping
9/23/2015	4216 / 4229	16	No Parking/ Sweeping/ Night Sweeping	**10/23/2015**	4216 / 4229	8	No Parking/ Sweeping/ Night Sweeping
9/24/2015	4216 / 4229	12	No Parking/ Sweeping/ Night Sweeping	**10/24/2015**			Weekend
9/25/2015	4216 / 4229	14	No Parking/ Sweeping/ Night Sweeping	**10/25/2015**			Weekend
9/26/2015			Weekend	**10/26/2015**	4216 / 4229	4	No Parking/ Sweeping/ Night Sweeping
9/27/2015			Weekend	**10/27/2015**	4216	7	No Parking/ Sweeping/ Night Sweeping
9/28/2015	4216 / 4229	10	No Parking/ Sweeping/ Night Sweeping	**10/28/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
9/29/2015	4216 / 4229	9	No Parking/ Sweeping/ Night Sweeping	**10/29/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
9/30/2015	4216 / 4229	15	No Parking/ Sweeping/ Night Sweeping	**10/30/2015**	4216	8	No Parking/ Sweeping/ Night Sweeping
				10/31/2015			Weekend
Total Miles:			**198**	**Total Miles:**			**172**

Date	**Type of Cleaning (Truck or Hand)**	**Estimated Linear Miles Cleaned**	**Comments/Unusual Problems**	**Date**	**Type of Cleaning (Truck or Hand)**	**Estimated Linear Miles Cleaned**	**Comments/Unusual Problems**

11/1/2015			Weekend		**12/1/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/2/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/2/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/3/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/3/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/4/2015	4216	3	No Parking/ Sweeping/ Night Sweeping		**12/4/2015**	4216	6	No Parking/ Sweeping/ Night Sweeping
11/5/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/5/2015**			Weekend
11/6/2015	4216	6	No Parking/ Sweeping/ Night Sweeping		**12/6/2015**			Weekend
11/7/2015			Weekend		**12/7/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/8/2015			Weekend		**12/8/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/9/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/9/2015**	4216	6	No Parking/ Sweeping/ Night Sweeping
11/10/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/10/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/11/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/11/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping

11/12/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/12/2015**			Weekend
11/13/2015	4216	6	No Parking/ Sweeping/ Night Sweeping		**12/13/2015**			Weekend
11/14/2015			Weekend		**12/14/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/15/2015			Weekend		**12/15/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/16/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/16/2015**	4216	5	No Parking/ Sweeping/ Night Sweeping
11/17/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/17/2015**	4216	6	No Parking/ Sweeping/ Night Sweeping
11/18/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/18/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/19/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/19/2015**			Weekend
11/20/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/20/2015**			Weekend
11/21/2015			Weekend		**12/21/2015**	4216	6	No Parking/ Sweeping/ Night Sweeping
11/22/2015			Weekend		**12/22/2015**	4216	3	No Parking/ Sweeping/ Night Sweeping

11/23/2015	4216	5	No Parking/ Sweeping/ Night Sweeping		**12/23/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/24/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/24/2015**			Holiday
11/25/2015	4216	3	No Parking/ Sweeping/ Night Sweeping		**12/25/2015**			Holiday
11/26/2015			Holiday		**12/26/2015**			Weekend
11/27/2015			Holiday		**12/27/2015**			Weekend
11/28/2015			Weekend		**12/28/2015**	4216	3	No Parking/ Sweeping/ Night Sweeping
11/29/2015			Weekend		**12/29/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
11/30/2015	4216	4	No Parking/ Sweeping/ Night Sweeping		**12/30/2015**	4216	4	No Parking/ Sweeping/ Night Sweeping
					12/31/2015	4216	4	No Parking/ Sweeping/ Night Sweeping
Total Miles:			**84**		**Total Miles:**			**96**
					YTD:			**1371**

Appendix G

Record of CSS Trunk Sewer Flushing

FORM E

Record of CSS Trunk Sewer Flushing

City of Alexandria, Virginia
Transportation & Environmental Services

1. **Location of Sewer (Street):** As listed below from the one month maintenance list
2. **Began Flushing at (Name Cross Street or Other Feature):** one set up for each sewer as listed
3. **Ended Flushing at (Name Cross Street or Other Feature):** _____
4. **Length Flushed (Feet)** as listed for each location
5. **Date Flushing Performed:** See attached reports
6. **Flushing Performed by:** Flippo Construction, Unit 4470
   - ☐ **City, Name Crew** _____
   - ☐ **Contractor, Name** Flippo Hydro Jet Contract Crew
7. **Name of Person Preparing Report:** Melvin Entwisle Jr

Month List

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
nce St. & Strand, Need no parking signs, 350',Page 75	✓	GJ	11-1-15	350'	Found lots of grease Slow Flow water lvl. high ok water lvl. droped
Union St & Prince St. to Lee St., 300',Page 75	✓	G.J.	12-1-15 11:00	+75 320	ok
100 Blk. Of King St. In alley, 540' page 75	✓	G.J.	12-1-15 9:30	540' 75	ok
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	G.J.	12-1-15 9:00	200ft	200ft ok
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	G.J	1:00 12-1-15	1052'	ok.
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	G.J	12-1-15 2:00	525'	ok
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	G.J	12-1-15	300 +75	ok
St. Asaph St. @ Giant Food, 225' page 54	✓	GJ.	11-25-15 8:00	225	ok
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	G.J.	11-25-15 7:45	765	ok
Second St. to Pitt St. 330'	✓	G.J	11-25-15 8:15	330	ok
Radisson Inn to Canal Center Plaza, 250'	✓	G.J.	11-25-15 8:30	250'	ok
Montgomery to Radisson Inn, 650'	✓	G.J.	11-25-15 9:00	650	ok
St Asaph St. & Montgomery @ Restaurant	✓	G.J	11-25-15 7:30	100'	ok
Pitt St & Second St, North on Pitt St. 285'	✓	G.J	11-25-15 9:20	285'	ok
Second St. & Royal St. West on second to Pitt St. 500'	✓	G.J	11-25-15 9:50	500	ok
Third St & N. Royal St. 100'-south on Royal St.	✓	G.J	11-25-15 10:15	100'	ok
Third St. & N. Fairfax St. to Third & Royal St.	✓	G.J	11-25-15 10:45	315	ok
Fairfax St. to Second St. through alley, 305'	✓	G.J.	11-25-15 10:00	305'	ok
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	GJ	11-25-15 11:00	405	ok
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓ GJ	GJ	11-25-15 11:20	300'	ok
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	G.J	12-3-15 7:45	300'	ok

Melrose 9:00 Fayett & King
12:30

35 R

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
St Asaph St-alley behind Sutton place shopping center 300'	✓	G.J.	12-3-15 8:00	300'	OK
107 S. St Asaph St. Line in the alley beside Portners Restaruant 125'	✓	G.J	12-3-15 8:30	125'	OK
laterals at Christ Church on N Washington St. Behind the backflow flush.	✓	G.J.	12-3-15 9:00	35'	OK
Lateral @ 215 N. Pitt St.					OK No Entrey
500 Blk. S. Columbus St. @ Wilkes St. 360'	✓	G.J.	12-3-15 9:30	360'	OK
100 Blk. Of S. Fayette St manhole in Street. 150' & 20' in alley	✓	G.J	12-3-15 12:30	150' 20'	OK
Manhole in front of 207 S. Fayette St. through alley to King St. 250'	✓	G.J.	12-3-15 12:45	250'	OK
Diagonal Rd. lines coming from Joe Thiesman's, 700'	✓	G.J	12-3-15 1:00	700'	OK
King St. @ Woodbine Retirement Home to siphon @ Janney's Ln. 1425'	✓	GJ	12-3-15 2:00	1425	OK
Janney's Ln. to Woodbine Retirement Home 600'	✓	G.J	12-3-15 2:20	600'	OK
On East Taylor Run, check 125' lateral from Robinson Crt.	✓	G.J.	12-7-15 11:30	125	OK
Vest view Terr. To Braxton 150' to 715 Braxton	✓	G.J.	12-7-15 11:45	150'	OK
East Taylor Run Pkwy. 660'	✓	G.J	12-7-15 11:00	660'	OK
East Taylor Run Pkwy & Bryan Place 225' on Bryan Place	✓	G.J.	12-7-15 10:45	589 225'	OK
Janney's Ln. & East Taylor Run Pkwy, 225' on East Taylor Run	✓	G.J	12-7-15 11:45	225	OK
Reed Ave. @ McDonalds, 550' from siphon off Mark Drive alley to Birchmere Restaurant	✓	G.J.	12-7-15 10:30	550	OK
18" line on Four Mile Rd. to Old Dominion & the siphons 600'	✓	G.J	12-7-15 9:30	600	found lots of grease OK clean three times
5 W Glendale Ave. lateral coming into the manhole @ Glendale Ave. & Braddock Rd.	✓	G.J.	12-7-15 11:20	15'	OK
Manhole in yard, 107 Dale St. to Reed Ave, 350'	✓	G.J	12-7-15 10:00	350'	OK
Vermont to S. Iris, 350'	✓	G.J.	12-9-15 9:30	350'	OK
S. Hudson St., 625'	✓	G.J	12-9-15 10:15	625	OK

9:60 Jenkins & Holmes Run

9:45 Ingram & Vermont

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
S. Ingram to Underwood, 225'	✓	G.J.	12-9-15 10:30	225'	OK
Duke St., 500'	✓	G.J	12-9-15 11:00	500'	OK
Ingram from Vermont, 500'	✓	DJ	12-9-15 9:45	500'	OK
S. Gordon St. to Duke St. 325'	✓	DJ	12-9-15 11:15	325'	OK
Wheeler Ave to S. Gordon St.	✓	DJ	12-9-15 11:30	325	OK
Manhole behind Pierce Elect. Cont.,250'	✓	DJ	12-9-15 11:50	250'	OK
Home Depot from Post Office to Cameron Industrial Park, 2,420'	✓	DJ	12-14-15 8:45	2,420	OK
N. Jordan To Fox Chase, 300'	✓	DJ	12-9-15	300	OK
Rayburn Ave, 600'	✓	G.J	12-16-15 7:30	600'	OK
Harding to Sibley, 250'	✓	G.J.	12-15-15 7:45	250'	OK
Rayburn to Clyde's, 375'	✓	G.J.	12-15-15 8:15	375	OK
Harding to Leverett Court, 225'	✓	G.J.	12-15-15 8:45	225	OK
N. Jordan St. to Fox Chase in alley, 300'	✓	G.J.	12-9-15	300	OK
Eisenhower ave to Holiday inn, 250'	✓	G.J	12-15-15	250'	OK
Eisenhower ave to Taylor Dr., 275'	✓	G.J.	12-15-15	275'	OK
Paxton St. @ McDonald's, 1,150'	✓	G.J	12-8-15 9:00	1150	OK
Shooter McGees off Duke St service Rd., 2'350'	✓	G.J	12-14-15 8:30	2,350	OK
Reynolds St. off Duke St. @ 7-11; 400'	✓	G.J.	12-8-15 8:00	400	OK
...lker St. @ car Dealership, coming from Mexican Restaurant; 1,650'	✓ G.J.	G.J.	12-8-15 7:30	1650	OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
South Pickett St. @ Laundry, 475'	✓	G.J.	12-8-15 10:00	475'	ok
Eisenhower Ave. @ rear of Waste Energy plant, 3,700'	✓	G.J	12-15 1:00.	3,700	OK
Rayburn Ave. @ off Beauregard St., coming from Restaurant 2,895'	✓	G.J.	12-14-15 10:00	2895	OK
South Jordan St., line infront of 7-11, 200'	✓	G.J	12/9/15 8:00	200	OK
South Jordan St. to Venable, 340'	✓	G.J.	8:30 12-9-15	340'	OK
Line in alley behind Foxchase (2 lines) off Duke St, 1,073'	✓	G.J	12-8-15	1073	OK
Vermont Ave. & Gordon St. in manhole where Vermont Ave. flow is restricted, 625'	✓	G.J.	12-9-15 9:45	625'	OK
40 S. Ingram St. to Duke St., 700'	✓	G.J	12-9-15 10:15	700'	700'
Hill Top & Carlisle Dr., clear manhole and run flat line, 273'	✓	GJ.	12-9-15 11:55	273'	OK
Holmes Run to S. Jordan, 650'	✓	G.J	12-8-15 10:30	650'	OK
Holmes Run Parkway, 450'	✓	G.J.	12-8-15 10:45	450'	OK

8:30 Vendable & S. JORdan

Month List

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Prince St. & Strand, Need no parking signs, 350',Page 75	✓	RS	9:15 10-14-15	350	OK
Union St & Prince St. to Lee St., 300',Page 75	✓	RS	9:00 10-14-15	350	OK
100 Blk. Of King St. in alley, 540' page 75	✓	DJ	10-13-15 7:30	540'	OK
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	DJ	10-13-15 8:00	200'	OK
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	DJ	10-13-15 9:00	1052'	OK
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	G.J	10-14-15 9:40	200	OK
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	DJ	10-13-15 11:00	300'	OK
St. Asaph St. @ Giant Food, 225' , page 54	✓	G.J	10-14-15 10:30	225	OK
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	G.J.	10-14-15 11:00	765	OK
Second St. to Pitt St. 330'	✓	G.J	10-14-15 11:30	330	OK
Radisson Inn to Canal Center Plaza, 250'	✓	G.J.	10-14-15 11:45	250	OK
ontgomery to Radisson Inn, 650'	✓	G.J.	10-14-15 1:00	650'	OK
St Asaph St. & Montgomery @ Restaurant	✓	G.J	10-14-15 1:20	100'	OK
Pitt St & Second St, North on Pitt St. 285'	✓	G.J	10-14-15 1:40	285'	OK
Second St. & Royal St. West on second to Pitt St. 500'	✓	G.J.	10-14-15 2:00	500	OK
Third St & N. Royal St. 100'-south on Royal St.	✓	G.J	10-14-15 2:20	100'	OK
Third St. & N. Fairfax St. to Third & Royal St. 315'	✓	G.J.	10-14-15 2:40	315	OK
Fairfax St. to Second St. through alley, 305'	✓	G.J.	10-14-15 2:50	305	OK
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	G.J	10-14-15 3:10	405	OK
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓	G.J	10-14-15 3:20	300'	OK
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	GJ	10-14-15 7:30	500'	OK
St Asaph St. alley behind Sutton place shopping center. 300'	✓	GJ	10-14-15 7:50	300'	OK

KING AND S. LEE to RUN LINE UP KING AND DOWN KING
125 Foot 9:40 300' 200'

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
107 S. St Asaph St. Line in the alley beside Portners Restaruant. 125'	✓	G.J.	8:15	125	OK 1
Laterals at Christ Church on N hington St, Behind the backflow flush.	✓	G.J.	10/19/15 8:30	30	OK
Lateral @ 215 N. Pitt St.					
500 Blk. S. Columbus St. @ Wilkes St. 360'	✓	G.J.	10/19/15 9:00	360'	OK
100 Blk. Of S. Fayette St.manhole in Street. 150' & 20' in alley	✓	G.J.	10/19/15 10:30	20' 150'	OK
Manhole in front of 207 S. Fayette St. through alley to King St. 250 '	✓	G.J	10/19/15 10:45	250'	OK
Diagonal Rd. lines coming from Joe Thiesman's, 700'	✓	G.J.	10/19/15 11:45	700	OK
King St. @ Woodbine Retirement Home to siphon @ Janney's Ln.1425'	✓	[illegible]	10-13-15 2:00	1425	OK
Janney's Ln. to Woodbine Retirement Home. 600'	✓	GJ	10/19/15 11:15	600'	OK
On East Taylor Run, check 125' lateral from Robinson Crt.	✓	G.J	10/19/15 12:30	125'	OK
West view Terr. To Braxton 150' to 715 Braxton	✓	G.J	10/19/15 12:45	150'	OK
East Taylor Run Pkwy. 660'	✓	G.J	10/19/15 1:00	660'	OK
Taylor Run Pkwy & Bryan Place 225' on Bryan Place	✓	GJ	10/19/15 1:15	225	OK
Janney's Ln. & East Taylor Run Pkwy, 225' on East Taylor Run	✓	GJ	10/19/15 1:30	225'	OK
Reed Ave. @ McDonalds, 550' from siphon off Mark Drive alley to Birchmere Restaurant	✓	G.J	10/20/ 7:30	550'	OK
18 " line on Four Mile Rd. to Old Dominion & the siphons 600'	✓	G.J	10/20/15 8:00	600	OK
S W Glendale Ave. lateral coming into the manhole @ Glendale Ave. & Braddock Rd.	✓	GJ	10/20/15 9:00	30'	OK
Manhole in yard, 107 Dale St. to Reed Ave, 350'	✓	G.J	10/20/15 8:15	350	OK
~~Vermont to S. Iris, 350'~~	✓	GJ	10/20/15 9:40	350	OK
~~S. Hudson St, 625'~~	✓	G.J	10/21/15 10:00	625	OK
~~S. Ingram to Underwood, 225'~~	✓	GJ	10/21/15 10:15	225	OK
~~Duke St., 500'~~	✓	G.J	10/21/15 10:50	500	

8
4
×
32

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Ingram from ermont, 500'	✓	GJ	10/21/15 11:20	500	OK
S. Gordon St. to uke St. 325'	✓	GJ	10/21/15 12:30	325	OK
Wheeler Ave to S. Gordon St.	✓	GJ	10/21/15 1:00	250	OK
Manhole behind Pierce lect. Cont., 250'	✓	GJ	10/21/15 1:30	250	OK
ome epot from Post Office to Cameron Industrial Park, 2,420'	✓	GJ	10/20/15 10:00	2,420	OK 2420 6552 0700
N. ordan To Fox Chase, 300'	✓	GJ	10/21/15 1:30	300'	OK
Rayburn Ave, 600'	✓	G.J	10/26/15 10:15	600'	OK
arding to Sibley, 250'	✓	GJ	10/26/15 9:00	250'	OK
Rayburn to Clyde's, 375'	✓	G.J	10/26/15 9:15	375'	OK
arding to Leverett Court, 225'	✓	G.J	10/26/15 9:45	225'	OK
ordan St. to Fox Chase in alley, 300'	✓	G.J.	10/26/15 1:00	300'	OK
isenhower ave to oliday inn, 250'	✓	G.J.	10/29/15 7:30	250'	OK
isenhower ave to Taylor r., 275'	✓	G.J	10/27/15	275'	OK
Paxton St. @ Mconald's, 1,150'	✓	GJ	10/26/15 7:36	1150	OK
Shooter McGees off uke St service Rd., 2'350'	✓	G.J	10/21/15 7:30	2350	OK
Reynolds St. off uke St. @ 7-11 400'	✓	G.J	10/21/15 9:00	400	OK
Walker St. @ car ealership, coming from Mexican Restaurant 1,650'	✓	DJ	10-13-15 1:00	1650	OK
South Pickett St. @ Laundry, 475'	✓	DJ	10-13-15 12:30	475	OK
isenhower Ave. @ rear of Waste nergy plant, 3,700'	✓	DJ	10/27/15	3700	Found gravel we cleaned out before but gravel follows
Rayburn Ave. @ off Beauregard St., coming from Restaurant 2,85'	✓	DJ.	10/26/15 10:30	2,85	OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
South Jordan St., line infront of 7					

Month List

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
nce St. & Strand, Need no parking signs, 350',Page 75	✓	G.J.	9/8/15 7:30	350	OK
Union St & Prince St. to Lee St., 300',Page 75	✓	G.J	9/8/15 8:00	300	ok
100 Blk. Of King St. in alley, 540' page 75	✓	G.J	9/8/15 8:30	540'	ok
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	G.J.	9/8/15 9:00	300	ok
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	G.J	9/8/15 9:30	1052	ok
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	G.J	9/8/15 10:00	541	231 235 75
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	G.J.	9/8/15 11:00	300	ok
St. Asaph St. @ Giant Food, 225' page 54	✓	G.J	9/9/15 10:00	225'	ok
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	G.J.	9/8/15 1:00	765	ok
Second St. to Pitt St. 330'	✓	GJ	9/9/15 10:30	330	OK
Radisson Inn to Canal Center Plaza, 250'	✓	DJ	9/9/15 10:45	250'	ok
Montgomery to Radisson Inn, 650'	✓	DJ	9/9/15 2:00	650'	ok 180
St Asaph St. & Montgomery @ Restaurant	✓	DJ	9/9/15 1:30	860	ok 84
Pitt St & Second St, North on Pitt St. 285'	✓	DJ	9/9/15 11:15	285	464 + 396
Second St. & Royal St. West on second to Pitt St. 500'	✓	DJ	11:30	500'	ok
Third St & N. Royal St. 100'-south on Royal St.	✓	GJ	9:00 9/9/15	100'	100' ok
Third St. & N. Fairfax St. to Third & Royal St.	✓	G.J.	9:15 9/9/15	315	ok
Fairfax St. to Second St. through alley, 305'	✓	GJ	9/9/15 9:30	305	OK
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	GJ	9-9-15 9:45	405	OK
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓	G.J	9/9/15 10:00	300'	OK
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	GJ	9/21-15 10:30	400'	ok
St Asaph St. alley behind Sutton place shopping center. 300'	✓	GJ	9/21/15 11:00	600	ok 162 635

King and Union 85 25 8525 85 25 110 797
340 Lee & King 340
Lee St.

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
107 S. St Asaph St. Line in the alley beside Portners Restaruant. 125'	✓	G.J.	9:00 9-21-15	125'	ok
Laterals at Christ Church on N hington St, Behind the backflow flush.	✓	G.J.	10:00 9/30/15	30'	ok
~~Lateral @ 215 N. Pitt St.~~					No entry w/out permit
500 Blk. S. Columbus St. @ Wilkes St. 360'	✓	G.J	11:00 9-21-15	360'	ok
100 Blk. Of S. Fayette St.manhole in Street. 150' & 20' in alley	✓	G.J	9/16 11:00	150' & 20' ok	ok
Manhole in front of 207 S. Fayette St. through alley to King St. 250'	✓	G.J	9/16 11:00	250'	ok
Diagonal Rd. lines coming from Joe Thiesman's, 700'	✓	DJ	9:00 10/16	700'	ok
King St. @ Woodbine Retirement Home to siphon @ Janney's Ln.1425'	✓	DJ	2:00 9/16	1425	ok
Janney's Ln. to Woodbine Retirement Home. 600'	✓	DJ	9/16 2:30	600	ok
On East Taylor Run, check 125' lateral from Robinson Crt.	✓	DJ	9/12 2:45	125'	ok
West view Terr. To Braxton 150' to 715 Braxton	✓	DJ	1:45	150'	ok
East Taylor Run Pkwy. 660'	✓	DJ	9/16 3:00	660'	ok
East Taylor Run Pkwy & Bryan Place 225' on Bryan Place	✓	DJ	9/16/	225'	ok
Janney's Ln. & East Taylor Run Pkwy, 225' on East Taylor Run	✓	DJ	9/30/15	225'	ok
Reed Ave. @ McDonalds, 550' from siphon off Mark Drive alley to Birchmere Restaurant	✓	G.J.	9/16/15 12:30.	550	ok
18 " line on Four Mile Rd. to Old Dominion & the siphons 600'	✓	G.J	9/16/15 130	600	ok
S W Glendale Ave. lateral coming into the manhole @ Glendale Ave. & Braddock Rd.	✓	G.J.	9/17/15	70'	ok
Manhole in yard, 107 Dale St. to Reed Ave, 350'	✓	GJ	9/16/15 1:45	350'	ok
Vermont to S. Iris, 350'	✓	GJ	9/22/15 11:30	350	ok
S. Hudson St., 625'	✓	G.J	9/22/15 12:30	625'	ok
S. Ingram to Underwood, 225'	✓	G.J.	9/22/15 1:00	225	ok
Duke St., 500'	✓	G.J	9/22/15 1:45	500'	ok

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Ingram from ermont, 500'	✓	G.J.	9/22/15 1:45	500'	OK
S. Gordon St. to uke St. 325'	✓	G.J.	9/22/15 2:00	325	OK
Wheeler Ave to S. Gordon St.	✓	G.J	9/22/15 2:30	325'	OK
Manhole behind Pierce lect. Cont.,250'	✓	G.J	9/22/15 2:40	250'	OK
ome epot from Post Office to Cameron Industrial Park, 2,420'	✓	G.J	9-21-15 1:00	2,420	OK
N. ordan To Fox Chase, 300'	✓	G.J	9-22-15 8:00	300	OK
Rayburn Ave, 600'	✓	Jr	9-23-15 7:45	600 FT 3:00	OK
H arding to Sibley, 250'	✓	Jr	9-23-15 7:45	3:00 250'	OK
Rayburn to Clyde's, 375'	✓	Jr	9-23-15 7:45	3:00 375'	OK
H arding to Leverett Court, 225'	✓	Jr	7:45 9-23-15	3:00 225'	OK
N. ordan St. to Fox Chase in alley, 300'	✓	G.J.	9-22-15 8:30	300	OK
isenhower ave to oliday inn, 250'	✓	G.J.	9-29-15 1:00	250'	OK
isenhower ave to Taylor r., 275'	✓	G.J.	9/29/15 1:15	275'	OK
Paxton St. @ Mconald's, 1,150'	✓	G.J	9-30-15 9:30	1150	
Shooter McGees off uke St service Rd., 2'350'	✓	G.J.	9-30-15 8:30	2,350	
Reynolds St. off uke St. @ 7-11 400'	✓	G.J	9-30-15 8:00	400'	
Walker St. @ car ealership, coming from Mexican Restaurant 1,650'	✓	G.J.	9-29-15 10:00	1650	
South Pickett St. @ Laundry, 475'	✓	G.J	9-29-15 10:15	475	
isenhower Ave. @ rear of Waste nergy plant, 3,700'	✓	G.J	9-29-15 7:30	3,700	OK
burn Ave. @ off Beauregard St., coming from Restaurant 2,895	✓	J.N	9-23-15 7:45	2,895' 3	OK

9-11-15 W. Glebe Rd & MT VERNON 1:
Gordon and Vermont Bad Manhole

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
South Jordan St., line infront of 7					

One Month List

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Prince St. & Strand, Need no parking signs, 350',Page 75	✓	G.J.	7:30 6-30-15	350'	ok
Union St & Prince St. to Lee St., 300',Page 75	✓	G.J	6-30-15 10:30	300'	OK
100 Blk. Of King St. in alley, 540' page 75	✓	GJ	6-30-15 11:20	540	ok
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	G.J.	6-30-15 10:40	200'	ok
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	G.J.	6-30-15 12:00	1052	ok
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	GJ	12:15 6-30-15	300	OK
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	G.J.	6-30-15 10:00	300	ok
St. Asaph St. @ Giant Food, 225' page 54	✓	GJ	6-30-15 2:30	225'	OK
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	GJ	7-1-15 8:30	765'	ok
Second St. to Pitt St. 330'	✓	GJ	7-1-15 10:00	330	OK
Radisson Inn to Canal Center Plaza, 250'	✓	GJ	7-1-15 7:30	250'	OK
Montgomery to Radisson Inn, 650'	✓	G.J.	7-1-15 8:00	650'	
St Asaph St. & Montgomery @ Restaurant	✓	GJ	7-1-15 8:15	100'	ok
Pitt St & Second St, North on Pitt St. 285'	✓	GJ	7-1-15 10:15	285'	ok
Second St. & Royal St. West on second to Pitt St. 500'	✓	G.J.	7-1-15 10:30	500'	OK
Third St & N. Royal St. 100'-south on ~~315'~~ Royal St.	✓	G.J.	7-1-15 10:45	100'	OK
Third St. & N. Fairfax St. to Third & 315 Royal St.	✓	G.J.	7-1-15 11:00	315	OK
Fairfax St. to Second St. through alley, 305'	✓	GJ	7-1-15 11:30	305	OK
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	GJ	12:30 7-1-15	405	OK
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓	G.J.	12:45	300	OK
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	GJ	6-30-15 2:15	300'	OK
St Asaph St. alley behind Sutton place shopping center. 300'	✓	DJ.	2:20 6-30-15	300'	OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
107 S. St Asaph St. Line in the alley beside Portners Restaruant. 125'	✓	GJ	7/7/15 9:00	300' 125	OK
Laterals at Christ Church on N hington St, Behind the backflow flush.	✓	G.J	7/7/15 9:30	30'	OK
Lateral @ 215 N. Pitt St.					No Entry
500 Blk. S. Columbus St. @ Wilkes St. 360'	✓	G.J	7/7/15 10:45	360'	OK
100 Blk. Of S. Fayette St.manhole in Street. 150' & 20' in alley	✓	GJ	7/7/15 11:00	150' 320	OK
Manhole in front of 207 S. Fayette St. through alley to King St. 250'	✓	GJ	7/7/15 11:15	250'	OK
Diagonal Rd. lines coming from Joe Thiesman's, 700'	✓	G.J	7/7/15 100	700	OK
King St. @ Woodbine Retirement Home to siphon @ Janney's Ln.1425'	✓	G.J	7/7/15 1:45	1425'	OK
Janney's Ln. to Woodbine Retirement Home. 600'	✓	GJ	7/7/15 1:15	600'	OK
On East Taylor Run, check 125' lateral from Robinson Crt.	✓	G.J.	7/7/15 1:30	125'	OK
West view Terr. To Braxton 150' to 715 Braxton	✓	RS	7-10-15 215	215	OK
East Taylor Run Pkwy. 660'	✓	G.J.	7/7/15 2:00	660'	OK
t Taylor Run Pkwy & Bryan Place 225' on Bryan Place	✓	G.J	2:30	225'	OK
Janney's Ln. & East Taylor Run Pkwy, 225' on East Taylor Run	✓	G.J	7/7/15 1:45	225'	OK
Reed Ave. @ McDonalds, 550' from siphon off Mark Drive alley to Birchmere Restaurant	✓	GJ	7/14/15 12:30	550'	OK
18 " line on Four Mile Rd. to Old Dominion & the siphons 600'	✓	G.J	7/14/15 1:00	600	OK
5 W Glendale Ave. lateral coming into the manhole @ Glendale Ave. & Braddock Rd.	✓	G.J	1:40 7-14-15	15	Did Tues at 1:00
Manhole in yard, 107 Dale St. to Reed Ave, 350'	✓	GJ	1:20 7-14-15	350	OK
Vermont to S. Iris, 350'	✓	G.J	7-15-15 7:30	350'	350'
S. Hudson St., 625'	✓	GJ	7-15-15 7:45	625	625'
S. Ingram to Underwood, 225'	✓	GJ	7-15-15 8:00	225	225'
Duke St., 500'	✓	GJ	8:20 7-15-15	500	500

RUNNING LINE ON TANEY ST 5100 B 935 LINE OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Ingram from ermont, 500'	✓	G.J.	7/13/15 8:45	500'	
S. Gordon St. to uke St. 325'	✓	G.J.	7/13/15 9:00	325	This is a problem w/ this Manhole
Wheeler Ave to S. Gordon St.	✓	G.J	7/13/15 10:00	225	
Manhole behind Pierce lect. Cont.,250'	✓	G.J	7/13/15 9:20	250'	
ome epot from Post Office to Cameron Industrial Park, 2,420'	✓	G.J.	7/13/15 7:30	2,420	ok
N. ordan To Fox Chase, 300'	✓	G.J.	7/15/15 8:00	300	ok
Rayburn Ave, 600'	✓	G.J	10:20 7/21/15	600	ok
arding to Sibley, 250'	✓	G.J	10:40 7/21/15	250	ok
Rayburn to Clyde's, 375'	✓	G.J.	10:50 7/21/15	375'	ok
arding to Leverett Court, 225'	✓	G.J	7/21/15	225	OK
ordan St. to Fox Chase in alley, 300'	✓	G.J.	7/15/15 10:40	300	OK
isenhower ave to oliday inn, 250'	✓	G.J	7/28/15	250'	OK
isenhower ave to Taylor r., 275'	✓	G.J	7/28/15	275	OK
Paxton St. @ Mconald's, 1,150'	✓	G.J.	7/14/15 7:30	1150	ok
Shooter McGees off uke St service Rd., 2'350'	✓	G.J	7/14/15 8:00	2350	ok
Reynolds St. off uke St. @ 7-11 400'	✓	G.J.	7/14/15 8:20	400'	ok
Walker St. @ car ealership, coming from Mexican Restaurant 1,650'	✓	G.J	7/13/15 1:00	7-13-15 1:00	ok
South Pickett St. @ Laundry, 475'	✓	G.J	7/14/15 8:40	475	ok
isenhower Ave. @ rear of Waste nergy plant, 3,700'	✓	G.J.	7/22/15 7:30	3,700	~~3,700~~ OK
yburn Ave. @ off Beauregard St., coming from Restaurant 2,85'	✓	G.J.	7-20-15 8:30	2,85	ok

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition

South Jordan St., line infront of 7

One Month List

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Prince St. & Strand, Need no parking signs, 350',Page 75	✓	G.J	4-15-15	350'	
Union St & Prince St. to Lee St., 300',Page 75	✓	G.J	4-15-15 10:10	300'	
100 Blk. Of King St. in alley, 540' page 75	✓	G.J	4-15-15	540'	
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	G.J.	4-15-15 8:30	~~4-15~~ 300'	scope found grease
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	GJ	4-15-15 11:30	1052'	
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	GJ	4-15-15 2:00	300'	300' 100' 300' done
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	GJ.	4-15 2:45	300'	OK
St. Asaph St. @ Giant Food, 225' page 54	✓	G.J	4-20-15 8:00	225	OK
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	GJ	4-20-15 10:00	765	OK
Second St. to Pitt St. 330'	✓	GJ	4-20-15 8:15	330	OK.
Radisson Inn to Canal Center Plaza, 250'	✓	GJ	4-20-15 8:40	250'	ok
Montgomery to Radisson Inn, 650'	✓	GJ	4-20 8:40	650'	OK
St Asaph St. & Montgomery @ Restaurant	✓	GJ	4-20-15 9:30	70'	OK
Pitt St & Second St, North on Pitt St. 285'	✓	GJ	4-20-15 10:40	285'	OK
Second St. & Royal St. West on second to Pitt St. 500'	✓	GJ	4-20-15 11:00	500	OK
Third St & N. Royal St. 100'-south on Royal St.	✓	GJ	4-20-15 11:17	100	OK
Third St. & N. Fairfax St. to Third & Royal St.	✓	G.J	4-20 11:30	100	OK
Fairfax St. to Second St. through alley, 305'	✓	G.J	4-20-15 11:50	305'	OK
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	G.J	4-20-15 11:45	405	OK
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓	G.J	4-20-15 12:00	300	OK
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	G.J.	4-21-15 8:00	300'	OK
St Asaph St. alley behind Sutton place shopping center. 300'	✓	G.J	4-21-15 8:17	300'	OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Ingram from ermont, 500'	✓	GJ	5-11-15 1:00	500'	ok
S. Gordon St. to uke St. 325'	✓	GJ.	5-11-15	325	ok
Wheeler Ave to S. Gordon St.	✓	GJ	5-11-15 12:30	325'	ok
Manhole behind Pierce lect. Cont., 250'	✓	GJ	5-11-15 12:45	250'	ok
ome epot from Post Office to Cameron Industrial Park, 2,420'	✓	GJ.	4-22-15 10:00	2,420'	ok
N. ordan To Fox Chase, 300'	✓	GJ.	5-11-15 8:00	300'	ok Jun 30, 8wks pic at 7wks
Rayburn Ave, 600'	✓	GJ	5-12-15	600'	oo
arding to Sibley, 250'	✓	GJ	5-12-15	250'	ok
Rayburn to Clyde's, 375'	✓	GJ	5-12-15	375	ok
arding to Leverett Court, 225'	✓	GJ.	5-12-15	225	ok
ordan St. to Fox Chase in alley, 300'	✓	GJ.	5-11-15 8:30	3:00	ok.
isenhower ave to oliday inn, 250'	✓	GJ	5-11-15 9:00	250	ok
isenhower ave to Taylor r., 275'	✓	GJ	5-11-15 9:15	275'	ok
Paxton St. @ Mconald's, 1,150'	✓	GJ	5-5-15 10:40	1,150	ok
Shooter McGees off uke St service Rd., 2'350'	✓	GJ.	5-5-15 8:30	2,350'	ok
Reynolds St. off uke St. @ 7-11 400'	✓	GJ.	5-5-15 1:30	400'	ok
Walker St. @ car ealership, coming from Mexican Restaurant 1,650'	✓	GJ	5-6-15 12:30	1650	ok.
South Pickett St. @ Laundry, 475'	✓	GJ.	4-22-15 10:30 475'	475'	ok
isenhower Ave. @ rear of Waste nergy plant, 3,700'	✓	GJ	5-6-15 8:00	3,700	ok
yburn Ave. @ off Beauregard St., coming from Restaurant 2,85'	✓	GJ	4-22-15 12:30	2,85	ok

Melrose pl. 11:00 500'FT. 100'PT
Ivy cir. and Melrose 600FT
Carisele & Hilltop 300FT

ne Month List

Sewer Location	Check If Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
e St. & Strand, Need no parking signs, 350',Page 75	✓	DJ	01-21-15 9:30	350'	found Grease
Union St & Prince St. to Lee St., 300',Page 75	✓	DJ	1-21-15 10:00	300'	OK
100 Blk. Of King St. in alley, 540' page 75	✓	DJ	1-21-15 10:15	75'	OK
200 Blk. Of King St south side, Flush up to Fairfax St.	✓	G.J.	1-21-15 8:00	540'	OK
Ramsey alley, Fairfax St to union St and Union St to river,1,052' page75	✓	G.J.	2-2-15 1:00	1052'	OK
200 Blk. Of N. Lee St. @ Cameron St. & @ alley	✓	GJ	1-10-15	200 875	OK
Thompson's alley, west side of Union St. coming from chart house Restaurant, 300' page 75	✓	G.J	2-2-15	300'	OK
St. Asaph St. @ Giant Food, 225' page 54	✓	G.J.	2-4-15 10:00	225'	OK
Second St. in parking lot behind apartments, rear of Old Colony Inn, 765'	✓	G.J	2-4-15 9:00	765	ok
Second St. to Pitt St. 330'	✓	G.J.	2-14-15 2:45	330	OK
Radisson Inn to Canal Center Plaza, 250'	✓	G.J.	2-14-15	250	OK
Montgomery to Radisson Inn, 650'	✓	G.J	2-4-15 8:30	2-4-15 650'	OK
St Asaph St. & Montgomery @ Restaurant	✓	G.J	2-4-15 9:00	150'	ok
Pitt St & Second St, North on Pitt St. 285'	✓	GJ	2-4-15 1:00	255'	OK
Second St. & Royal St. West on second to Pitt St. 500'	✓	GJ	1:15 2-4-15	500'	OK
Third St & N. Royal St. 100'-south on Royal St.	✓	GJ	2-4-15 1:34	123'	OK
Third St. & N. Fairfax St. to Third & Royal St.	✓	GJ	2-4-15 2:00	305	OK
Fairfax St. to Second St. through alley, 305'	✓	GJ	2:15 2-4-15	305	OK
Fairfax St. to Third St. & N. Fairfax St. 405'	✓	GJ	2-4-15 2:30	405	OK
Fairfax St. & Canal Center Plaza to N. Fairfax St. 300'	✓	GJ	1-10-15	300	OK
S. St. Asaph St. from manhole on Wolfe St. to manhole @ 307 S. St. Asaph St.	✓	GJ	1-10-15	500	OK
St Asaph St. alley behind Sutton place shopping center. 300'	✓	GJ	1-10-15	300	OK

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
107 S. St A St. Line in the alley beside ' ners Restaruant. 125'	✓	GJ	1-10-15	130 ~~1-10-15~~	OK
Lat Christ Church on N hing Behind the backflow flush.	✓	GJ	1-10-15	10	OK
Lateral @ 215 N. Pitt St.	✓	GJ	1-10-15	—	OK
500 Blk. S. Columbus St. @ Wilkes St. 360'	✓	GJ	1-10-15	360	OK
100 Blk. Of S. Fayette St.manhole in Street. 150' & 20' in alley	✓	GJ	1-10-15	230	OK
Manhole in front of 207 S. Fayette St. through alley to King St. 250 '	✓	GJ	1-10-15	125	OK
Diagonal Rd. lines coming from Joe Thiesman's, 700'	✓	GJ	1-10-15	700	OK
King St. @ Woodbine Retirement Home to siphon @ Janney's Ln.1425'	✓	DJ	2-3-15 10:30	1425	OK
Janney's Ln. to Woodbine Retirement Home. 600'	✓	DJ	2-3-15 11:00	600	OK
On East Taylor Run, check 125' lateral from Robinson Crt.	✓	DJ	2-3-15 11:15	125'	OK
West view Terr. To Braxton 150' to 715 Braxton	✓	DJ	2-3-15 11:30	150'	OK
East Taylor Run Pkwy. 660'	✓	DJ	2-3-15 12:15	660	OK
Taylor Run Pkwy & Bryan Place 225' on Bryan Place	✓	DJ	2-3-15 12:30	225'	OK
Janney's Ln. & East Taylor Run Pkwy, 225' on East Taylor Run	✓	DJ	2-3-15 1:00	225	OK
Reed Ave. @ McDonalds, 550' from siphon off Mark Drive alley to Birchmere Restaurant	✓	DJ	2-11-15 10:00	550	OK
18 " line on Four Mile Rd. to Old Dominion & the siphons 600'	✓	DJ	2-11-15 10:45	763	OK
S W Glendale Ave. lateral coming into the manhole @ Glendale Ave. & Braddock Rd.	✓	DJ	2-11-15 11:00	15	OK
Manhole in yard, 107 Dale St. to Reed Ave, 350'	✓	GJ	3-23-15	350	CAR ON MANhole
Vermont to S. Iris, 350'	✓	DJ	3-3-15 10:44	350'	OK
S. Hudson St., 625' Vermont	✓	DJ	3-3-15 11:13	625'	OK
S. Ingram to Underwood, 225'	✓	DJ	3-3-15 11:30	225 650'	OK
Duke St., 500'	✓	DJ	3-4-15 9:00	500'	OK

UNNING LINE ON FIRST PATRICK ~~FOUR~~ city 3 Ingraham & Vermont

HECK LINE ON BUCCEN RUNNING good

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
Ingram from ermont, 500'	✓	[illegible]	3/3/15 11:00	650'	650' OK
S. Gordon St. to uke St. 325'	✓	G.J	3/4/15	OK 325'	325
Wheeler Ave to S. Gordon St. 2	✓	GJ	3/4/15	ok 250'	250
Manhole behind Pierce lect. Cont.,250'	✓	GJ	830 3-23-15	250	OK
ome epot from Post Office to Cameron Industrial Park, 2,420'	✓	G.J	3/9/15 7:30	2,420'	OK
N. ordan To Fox Chase, 300'	✓	[illegible]	3/9/15	300'	OK
Rayburn Ave, 600'	✓	12:00 [illegible]	12:00 2-11-15	600'	OK
arding to Sibley, 250'	✓	[illegible]	2-11-15	250'	OK
Rayburn to Clyde's, 375'	✓	[illegible]	1:00 2-11-15	375'	OK
arding to Leverett Court, 225'	✓	[illegible]	2-11-15 9:30	225	OK
ordan St. to Fox Chase in alley, 300'	✓	[illegible]	3-3-15 9:00	300'	OK
isenhower ave to oliday inn, 250'	✓	[illegible]	3-11-15 11:45	250'	OK
isenhower ave to Taylor r., 275'	✓	[illegible]	3-11-15 1:00	275	OK
Paxton St. @ Mconald's, 1,150'	✓	G. John	3-10-15 8:00	1150'	OK
Shooter McGees off uke St service Rd., 2'350'	✓	G.J.	2-23-15	2350	OK
Reynolds St. off uke St. @ 7-11 400'	✓	G.J	3-9-15	400'	OK
Walker St. @ car ealership, coming from Mexican Restaurant 1,650'	✓	G.J.	11:30 3-9-15	1650	OK
South Pickett St. @ Laundry, 475'	✓	G.J.	11:30 3-9-15	475	OK
isenhower Ave. @ rear of Waste nergy plant, 3,700'	✓	GJ	3-11-15	3700	OK found silt & Gravel
Rayburn Ave. @ off Beauregard St., coming from Restaurant 2,85'	✓	[illegible]	2-11-15	2,85	OK

Gordon and Vermont Bad man must Cam Re to see What's going on Full of Rocks We got Stuck

Sewer Location	Check if Done	Drivers Initials	Date & Time	Footage Cleaned	Manhole Condition
South Jordan St., line infront of 7					

Appendix H

Record of Catch Basin Cleaning

Work Order 101480

Cityworks

Clean

Status : CLOSED

Priority: 3 **Category:** STORM **Submit To:**

Work Order 101480
Clean

Cityworks

Status : CLOSED

Priority: 3 **Category:** STORM **Submit To:**

Initiated By:	WOOD, KHALIL	**Date:**	2/17/2016 7:48:11AM
Requested By:		**Supervisor:**	
		Submit to Date:	
Projected Start:	12/3/2015 10:48:01AM	**Projected Finish:**	
Opened By:		**Date:**	
Closed By:	WOOD, KHALIL	**Date:**	2/17/2016 8:11:38AM
Completed By:			
Actual Start:	1/1/2015 7:53:36AM	**Actual Finish:**	3/1/2015 7:53:44AM
Stage:	ACTUAL	**Expense Type:**	MAINT

Tasks:

Name	Description	Status	Proceed?

Priority: 3 **Category:** STORM **Submit To:**

Assets:

Type	Uid	Location
DINLET	000059IN	
DINLET	000060IN	
DINLET	000061IN	
DINLET	000062IN	
DINLET	000063IN	
DINLET	000064IN	
DINLET	000065IN	
DINLET	000149IN	
DINLET	000150IN	
DINLET	000151IN	
DINLET	000152IN	
DINLET	000153IN	
DINLET	000154IN	
DINLET	000155IN	
DINLET	000156IN	
DINLET	000157IN	
DINLET	000158IN	
DINLET	000159IN	
DINLET	000160IN	
DINLET	000161IN	
DINLET	000162IN	
DINLET	000163IN	
DINLET	000164IN	
DINLET	000165IN	
DINLET	000166IN	
DINLET	000167IN	
DINLET	000168IN	
DINLET	000169IN	
DINLET	000170IN	
DINLET	000171IN	
DINLET	000172IN	
DINLET	000173IN	
DINLET	000174IN	
DINLET	000175IN	
DINLET	000176IN	

Priority: 3 **Category:** STORM **Submit To:**

DINLET	000177IN
DINLET	000179IN
DINLET	000180IN
DINLET	000181IN
DINLET	000182IN
DINLET	000183IN
DINLET	000184IN
DINLET	000185IN
DINLET	000186IN
DINLET	000189IN
DINLET	000190IN
DINLET	000192IN
DINLET	000193IN
DINLET	000194IN
DINLET	000195IN
DINLET	000196IN
DINLET	000197IN
DINLET	000198IN
DINLET	000200IN
DINLET	000201IN
DINLET	000206IN
DINLET	000207IN
DINLET	000208IN
DINLET	000209IN
DINLET	000210IN
DINLET	000212IN
DINLET	000213IN
DINLET	000214IN
DINLET	000215IN
DINLET	000216IN
DINLET	000217IN
DINLET	000218IN
DINLET	004426IN
DINLET	004427IN
DINLET	004428IN
DINLET	004429IN
DINLET	004430IN

Priority: 3 **Category:** STORM **Submit To:**

DINLET	004431IN
DINLET	004432IN
DINLET	004433IN
DINLET	004434IN
DINLET	004440IN
DINLET	004441IN
DINLET	004442IN
DINLET	004443IN
DINLET	004444IN
DINLET	004445IN
DINLET	004446IN
DINLET	004447IN
DINLET	004448IN
DINLET	004449IN
DINLET	004450IN
DINLET	004451IN
DINLET	004452IN
DINLET	004453IN
DINLET	004454IN
DINLET	004455IN
DINLET	004456IN
DINLET	004922IN
DINLET	004923IN
DINLET	004924IN
DINLET	004935IN
DINLET	004938IN
DINLET	004952IN
DINLET	004953IN
DINLET	004954IN
DINLET	004955IN
DINLET	004956IN
DINLET	004974IN
DINLET	004975IN
DINLET	004989IN
DINLET	005204IN
DINLET	005205IN
DINLET	005206IN

Priority: 3 **Category:** STORM **Submit To:**

DINLET	005207IN
DINLET	005228IN
DINLET	005229IN
DINLET	005279IN
DINLET	005280IN
DINLET	005287IN
DINLET	005288IN
DINLET	005293IN
DINLET	005296IN
DINLET	005297IN
DINLET	005298IN
DINLET	005299IN
DINLET	005300IN
DINLET	005301IN
DINLET	005302IN
DINLET	005303IN
DINLET	005304IN
DINLET	005305IN
DINLET	005306IN
DINLET	005307IN
DINLET	005308IN
DINLET	005309IN
DINLET	005310IN
DINLET	005311IN
DINLET	005312IN
DINLET	005313IN
DINLET	005314IN
DINLET	005315IN
DINLET	005316IN
DINLET	005317IN
DINLET	005318IN
DINLET	005319IN
DINLET	005321IN
DINLET	005323IN
DINLET	005324IN
DINLET	005325IN
DINLET	005326IN

Priority: 3 **Category:** STORM **Submit To:**

DINLET	005328IN
DINLET	005329IN
DINLET	005330IN
DINLET	005332IN
DINLET	005333IN
DINLET	005335IN
DINLET	005336IN
DINLET	005337IN
DINLET	005338IN
DINLET	005339IN
DINLET	005340IN
DINLET	005342IN
DINLET	005343IN
DINLET	005350IN
DINLET	005351IN
DINLET	005352IN
DINLET	005387IN
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DINLET	005391IN
DINLET	005392IN
DINLET	005393IN
DINLET	005394IN
DINLET	005395IN
DINLET	005396IN
DINLET	005997IN
DINLET	005998IN
DINLET	005999IN
DINLET	006000IN
DINLET	006001IN
DINLET	006002IN
DINLET	006003IN
DINLET	006004IN
DINLET	006005IN
DINLET	006006IN
DINLET	006007IN
DINLET	006008IN

Priority: 3 **Category:** STORM **Submit To:**

DINLET	006009IN
DINLET	006010IN
DINLET	006011IN
DINLET	006012IN
DINLET	006013IN
DINLET	006014IN
DINLET	006017IN
DINLET	006018IN
DINLET	006019IN
DINLET	006020IN
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DINLET	006118IN
DINLET	006119IN
DINLET	006133IN
DINLET	006134IN
DINLET	006142IN
DINLET	006143IN
DINLET	006144IN
DINLET	006145IN
DINLET	006146IN
DINLET	006147IN
DINLET	006148IN
DINLET	006149IN
DINLET	006150IN
DINLET	006151IN
DINLET	006152IN
DINLET	006153IN
DINLET	007279IN
DINLET	007280IN
DINLET	007286IN
DINLET	007289IN

Priority: 3 **Category:** STORM **Submit To:**

DINLET	007290IN
DINLET	007292IN
DINLET	007293IN
DINLET	007299IN
DINLET	007300IN
DINLET	007302IN
DINLET	007303IN
DINLET	007304IN
DINLET	007306IN
DINLET	007307IN
DINLET	007308IN
DINLET	007309IN
DINLET	007310IN
DINLET	007312IN
DINLET	007313IN
DINLET	007855IN
DINLET	007856IN
DINLET	007857IN
DINLET	007858IN
DINLET	007859IN
DINLET	007860IN
DINLET	007861IN
DCATCHBASIN	000004CB
DCATCHBASIN	000005CB
DCATCHBASIN	000006CB
DCATCHBASIN	000007CB
DCATCHBASIN	000008CB
DCATCHBASIN	000009CB
DCATCHBASIN	000010CB
DCATCHBASIN	000011CB
DCATCHBASIN	000012CB
DCATCHBASIN	000013CB
DCATCHBASIN	000014CB
DCATCHBASIN	000015CB
DCATCHBASIN	000078CB
DCATCHBASIN	000373CB
DCATCHBASIN	000377CB

Priority: 3 **Category:** STORM **Submit To:**

DCATCHBASIN	000380CB
DCATCHBASIN	000381CB
DCATCHBASIN	000383CB
DCATCHBASIN	000436CB
DCATCHBASIN	000437CB
DCATCHBASIN	000438CB
DCATCHBASIN	000554CB
SCOMBINEDINLET	000001SCIN
SCOMBINEDINLET	000002SCIN
SCOMBINEDINLET	000003SCIN
SCOMBINEDINLET	000004SCIN
SCOMBINEDINLET	000005SCIN
SCOMBINEDINLET	000007SCIN
SCOMBINEDINLET	000008SCIN
SCOMBINEDINLET	000009SCIN
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SCOMBINEDINLET	000018SCIN
SCOMBINEDINLET	000019SCIN
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SCOMBINEDINLET	000135SCIN
SCOMBINEDINLET	000136SCIN
SCOMBINEDINLET	000137SCIN
SCOMBINEDINLET	000138SCIN
SCOMBINEDINLET	000139SCIN
SCOMBINEDINLET	000140SCIN
SCOMBINEDINLET	000141SCIN
SCOMBINEDINLET	000142SCIN
SCOMBINEDINLET	000143SCIN
SCOMBINEDINLET	000144SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000145SCIN
SCOMBINEDINLET	000146SCIN
SCOMBINEDINLET	000190SCIN
SCOMBINEDINLET	000191SCIN
SCOMBINEDINLET	000192SCIN
SCOMBINEDINLET	000193SCIN
SCOMBINEDINLET	000194SCIN
SCOMBINEDINLET	000333SCIN
SCOMBINEDINLET	000334SCIN
SCOMBINEDINLET	000335SCIN
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SCOMBINEDINLET	000339SCIN
SCOMBINEDINLET	000341SCIN
SCOMBINEDINLET	000342SCIN
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SCOMBINEDINLET	000538SCIN
SCOMBINEDINLET	000539SCIN
SCOMBINEDINLET	000540SCIN
SCOMBINEDINLET	000541SCIN
SCOMBINEDINLET	000542SCIN
SCOMBINEDINLET	000543SCIN
SCOMBINEDINLET	000544SCIN
SCOMBINEDINLET	000545SCIN
SCOMBINEDINLET	000546SCIN
SCOMBINEDINLET	000547SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000569SCIN
SCOMBINEDINLET	000572SCIN
SCOMBINEDINLET	000573SCIN
SCOMBINEDINLET	000574SCIN
SCOMBINEDINLET	000575SCIN
SCOMBINEDINLET	000576SCIN
SCOMBINEDINLET	000581SCIN
SCOMBINEDINLET	000582SCIN
SCOMBINEDINLET	000583SCIN
SCOMBINEDINLET	000584SCIN
SCOMBINEDINLET	000590SCIN
SCOMBINEDINLET	000591SCIN
SCOMBINEDINLET	000592SCIN
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SCOMBINEDINLET	000608SCIN
SCOMBINEDINLET	000609SCIN
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SCOMBINEDINLET	000613SCIN
SCOMBINEDINLET	000614SCIN
SCOMBINEDINLET	000615SCIN
SCOMBINEDINLET	000616SCIN
SCOMBINEDINLET	000617SCIN
SCOMBINEDINLET	000618SCIN
SCOMBINEDINLET	000619SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000620SCIN
SCOMBINEDINLET	000621SCIN
SCOMBINEDINLET	000622SCIN
SCOMBINEDINLET	000623SCIN
SCOMBINEDINLET	000627SCIN
SCOMBINEDINLET	000628SCIN
SCOMBINEDINLET	000629SCIN
SCOMBINEDINLET	000630SCIN
SCOMBINEDINLET	000631SCIN
SCOMBINEDINLET	000632SCIN
SCOMBINEDINLET	000633SCIN
SCOMBINEDINLET	000634SCIN
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SCOMBINEDINLET	000636SCIN
SCOMBINEDINLET	000637SCIN
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SCOMBINEDINLET	000655SCIN
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SCOMBINEDINLET	000658SCIN
SCOMBINEDINLET	000659SCIN
SCOMBINEDINLET	000660SCIN
SCOMBINEDINLET	000661SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000668SCIN
SCOMBINEDINLET	000669SCIN
SCOMBINEDINLET	000670SCIN
SCOMBINEDINLET	000671SCIN
SCOMBINEDINLET	000672SCIN
SCOMBINEDINLET	000673SCIN
SCOMBINEDINLET	000674SCIN
SCOMBINEDINLET	000675SCIN
SCOMBINEDINLET	000676SCIN
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SCOMBINEDINLET	000682SCIN
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SCOMBINEDINLET	000696SCIN
SCOMBINEDINLET	000697SCIN
SCOMBINEDINLET	000698SCIN
SCOMBINEDINLET	000699SCIN
SCOMBINEDINLET	000700SCIN
SCOMBINEDINLET	000701SCIN
SCOMBINEDINLET	000702SCIN
SCOMBINEDINLET	000703SCIN
SCOMBINEDINLET	000704SCIN
SCOMBINEDINLET	000705SCIN
SCOMBINEDINLET	000706SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000707SCIN
SCOMBINEDINLET	000710SCIN
SCOMBINEDINLET	000712SCIN
SCOMBINEDINLET	000713SCIN
SCOMBINEDINLET	000714SCIN
SCOMBINEDINLET	000715SCIN
SCOMBINEDINLET	000716SCIN
SCOMBINEDINLET	000717SCIN
SCOMBINEDINLET	000718SCIN
SCOMBINEDINLET	000719SCIN
SCOMBINEDINLET	000720SCIN
SCOMBINEDINLET	000721SCIN
SCOMBINEDINLET	000722SCIN
SCOMBINEDINLET	000723SCIN
SCOMBINEDINLET	000724SCIN
SCOMBINEDINLET	000725SCIN
SCOMBINEDINLET	000726SCIN
SCOMBINEDINLET	000727SCIN
SCOMBINEDINLET	000728SCIN
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SCOMBINEDINLET	000730SCIN
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SCOMBINEDINLET	000736SCIN
SCOMBINEDINLET	000737SCIN
SCOMBINEDINLET	000738SCIN
SCOMBINEDINLET	000739SCIN
SCOMBINEDINLET	000740SCIN
SCOMBINEDINLET	000741SCIN
SCOMBINEDINLET	000742SCIN
SCOMBINEDINLET	000743SCIN
SCOMBINEDINLET	000744SCIN
SCOMBINEDINLET	000745SCIN
SCOMBINEDINLET	000746SCIN
SCOMBINEDINLET	000747SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000748SCIN
SCOMBINEDINLET	000749SCIN
SCOMBINEDINLET	000750SCIN
SCOMBINEDINLET	000751SCIN
SCOMBINEDINLET	000752SCIN
SCOMBINEDINLET	000755SCIN
SCOMBINEDINLET	000756SCIN
SCOMBINEDINLET	000757SCIN
SCOMBINEDINLET	000758SCIN
SCOMBINEDINLET	000759SCIN
SCOMBINEDINLET	000760SCIN
SCOMBINEDINLET	000761SCIN
SCOMBINEDINLET	000763SCIN
SCOMBINEDINLET	000764SCIN
SCOMBINEDINLET	000765SCIN
SCOMBINEDINLET	000766SCIN
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SCOMBINEDINLET	000769SCIN
SCOMBINEDINLET	000771SCIN
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SCOMBINEDINLET	000776SCIN
SCOMBINEDINLET	000777SCIN
SCOMBINEDINLET	000778SCIN
SCOMBINEDINLET	000779SCIN
SCOMBINEDINLET	000780SCIN
SCOMBINEDINLET	000783SCIN
SCOMBINEDINLET	000784SCIN
SCOMBINEDINLET	000785SCIN
SCOMBINEDINLET	000786SCIN
SCOMBINEDINLET	000787SCIN
SCOMBINEDINLET	000788SCIN
SCOMBINEDINLET	000789SCIN
SCOMBINEDINLET	000790SCIN
SCOMBINEDINLET	000791SCIN
SCOMBINEDINLET	000796SCIN
SCOMBINEDINLET	000797SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000798SCIN
SCOMBINEDINLET	000799SCIN
SCOMBINEDINLET	000800SCIN
SCOMBINEDINLET	000801SCIN
SCOMBINEDINLET	000802SCIN
SCOMBINEDINLET	000803SCIN
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SCOMBINEDINLET	000805SCIN
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SCOMBINEDINLET	000892SCIN
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SCOMBINEDINLET	000901SCIN
SCOMBINEDINLET	000902SCIN
SCOMBINEDINLET	000903SCIN
SCOMBINEDINLET	000904SCIN
SCOMBINEDINLET	000920SCIN
SCOMBINEDINLET	000921SCIN

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDINLET	000922SCIN
SCOMBINEDINLET	000923SCIN
SCOMBINEDINLET	000924SCIN
SCOMBINEDINLET	000926SCIN
SCOMBINEDINLET	000928SCIN
SCOMBINEDINLET	000938SCIN
SCOMBINEDINLET	000939SCIN
SCOMBINEDINLET	000943SCIN
SCOMBINEDINLET	000944SCIN
SCOMBINEDINLET	000945SCIN
SCOMBINEDINLET	000946SCIN
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SCOMBINEDINLET	000953SCIN
SCOMBINEDINLET	000954SCIN
SCOMBINEDINLET	000955SCIN
SCOMBINEDINLET	000956SCIN
SCOMBINEDINLET	000957SCIN
SCOMBINEDINLET	000958SCIN
SCOMBINEDINLET	000959SCIN
SCOMBINEDINLET	
SCOMBINEDCATCHBASIN	000008SCCB
SCOMBINEDCATCHBASIN	000017SCCB
SCOMBINEDCATCHBASIN	000109SCCB
SCOMBINEDCATCHBASIN	000110SCCB
SCOMBINEDCATCHBASIN	000111SCCB
SCOMBINEDCATCHBASIN	000112SCCB
SCOMBINEDCATCHBASIN	000113SCCB
SCOMBINEDCATCHBASIN	000114SCCB
SCOMBINEDCATCHBASIN	000115SCCB
SCOMBINEDCATCHBASIN	000116SCCB
SCOMBINEDCATCHBASIN	000117SCCB
SCOMBINEDCATCHBASIN	000118SCCB

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDCATCHBASIN	000119SCCB
SCOMBINEDCATCHBASIN	000121SCCB
SCOMBINEDCATCHBASIN	000122SCCB
SCOMBINEDCATCHBASIN	000123SCCB
SCOMBINEDCATCHBASIN	000124SCCB
SCOMBINEDCATCHBASIN	000125SCCB
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SCOMBINEDCATCHBASIN	000128SCCB
SCOMBINEDCATCHBASIN	000129SCCB
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SCOMBINEDCATCHBASIN	000138SCCB
SCOMBINEDCATCHBASIN	000139SCCB
SCOMBINEDCATCHBASIN	000140SCCB
SCOMBINEDCATCHBASIN	000141SCCB
SCOMBINEDCATCHBASIN	000142SCCB
SCOMBINEDCATCHBASIN	000143SCCB
SCOMBINEDCATCHBASIN	000144SCCB
SCOMBINEDCATCHBASIN	000145SCCB
SCOMBINEDCATCHBASIN	000148SCCB
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SCOMBINEDCATCHBASIN	000152SCCB
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SCOMBINEDCATCHBASIN	000162SCCB
SCOMBINEDCATCHBASIN	000163SCCB
SCOMBINEDCATCHBASIN	000168SCCB
SCOMBINEDCATCHBASIN	000169SCCB
SCOMBINEDCATCHBASIN	000170SCCB

Priority: 3 **Category:** STORM **Submit To:**

SCOMBINEDCATCHBASIN	000171SCCB
SCOMBINEDCATCHBASIN	000174SCCB
SCOMBINEDCATCHBASIN	000175SCCB
SCOMBINEDCATCHBASIN	000176SCCB
SCOMBINEDCATCHBASIN	000177SCCB
SCOMBINEDCATCHBASIN	000178SCCB
SCOMBINEDCATCHBASIN	000190SCCB
SCOMBINEDCATCHBASIN	000191SCCB
SCOMBINEDCATCHBASIN	000192SCCB
SCOMBINEDCATCHBASIN	000193SCCB

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: Tue 4-14-15

JOB NUMBER: 1515/5-200 JOB LOCATION: City OF ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	8514	M. Serpio	41	8		Utility Truck		
	8761	D. ENIWISLE	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		Clean and flush catch BASIN INlets ON UNION ST and Duke ST and S PitT ST and Queen ST and N ROYAL ST and Whyte ST and W ALEXANDRIA ST and PENDLETON ST and BOLTBUS ST and S Lee ST total of 35						

MATERIAL	DESCRIPTION OF WORK

Scott Nicodemus

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: WED 4-22-15

JOB NUMBER: 1515/5-200 JOB LOCATION: city of ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	8514	M. Serapio	41	8		Utility Truck		
	8761	D. Endisls	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		clean and flush catch BASIN Inlets on Seminary Rd total of 4 clean gates off Potomac River Point Jones off Royal St Truck 4331 9:40 to 12:00 clean and flush Bmp fire station on Duke St Truck 4331 1:20 to 2:30						

MATERIAL	DESCRIPTION OF WORK

Scott Nicodemus

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: Thur 4-23-15

JOB NUMBER: 1515/S-200 JOB LOCATION: city of ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	8514	M. Serapio	41	8		Utility Truck		
	8761	D. ENIWISLE	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		clean and flush catch BASIN Inlets on King st and ALFRED st and Seminary Rd total of 28						

MATERIAL	DESCRIPTION OF WORK

Scott Nicodemus
ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: MON 4-27-15

JOB NUMBER: 1515-200 JOB LOCATION: city of ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	8514	M. Serapio	41	8		Utility Truck		
	8761	D. Entwisle	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		clean and flush catch BASIN Inlets on Seminary Rd And Dangerfield Rd. TRUCK 4331 total of 38						

MATERIAL	DESCRIPTION OF WORK

Scott Nicodemus
ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: Tue 4-28-15

JOB NUMBER: 1515/5-200 JOB LOCATION: city OF ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	8514	M. Serapio	41	8		Utility Truck		
	8761	D. ENTWISLE	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4930	8
						Flush Truck		

EXTRA		clean flush Inlets						
		Truck 331 9:00 to 10:30 on Dangerfield Rd						
		Truck 328 clean and flush Sewer Line on Howe Ave						
		10:45 to 2:30						

MATERIAL	DESCRIPTION OF WORK

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: WED 4-29-15

JOB NUMBER: 1515/S-200 JOB LOCATION: City OF ALEXANDRIA

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8886	S. Nicodemus	25	8		Pick-Up Truck		
	~~8544~~	~~M. Serrano~~	~~41~~	~~off~~		Utility Truck		
	8761	D. ENTWISLE	41	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		TRUCK 118 9:30 to 2:00			Dig	on WINDSOR AVE		

MATERIAL	DESCRIPTION OF WORK

Scott Nicodemus
ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 4-30-15 THUR.

JOB NUMBER: 1515/15-200 JOB LOCATION: CITY OF ALEX

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	4390	J. Nicodemus	59	8		Pick-Up Truck		
	8514	M. Serapio	41	8		Utility Truck		
	8761	D. Entwisle	40	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		Meet 118 & 315 at 313 Queen St Work with City Crew on A Dig Vac Sewer Line Rest of The Day						

MATERIAL	DESCRIPTION OF WORK
Seminary at Howard	Clean CB & Inlet
"	" "
Seminary at King James	" "
4160 Blk Seminary	" "

John Nicodemus
ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06/09/2015 TUE.

JOB NUMBER: 1515/5-200 JOB LOCATION: City of Alex.

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	34	8		Pick-Up Truck		
	2527	B. Ramirez	40	8		Utility Truck		
	8514	M-F Sprapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	1430	8
						Flush Truck		
EXTRA								

MATERIAL	DESCRIPTION OF WORK
Commonwealth Ave at Howell Ave	Work For Thomas (180)
S. Columbus St @ Randolph St	Wash CB ++++
" " Wythe	" CB ++++

Gebeyehu Edae

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383 J Manuel

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06/12/2015 FRI

JOB NUMBER: 1515/5-200 JOB LOCATION: City of Alex

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edge	39	8		Pick-Up Truck		
	2527	B. Ramirez	40	8		Utility Truck		
	8514	M.F Serapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	11430	8
						Flush Truck		
EXTRA								

MATERIAL	DESCRIPTION OF WORK
N. Union st at King st	Clean/wash comfort room
N. Alfred st " Pendleton st	Wash CB
620 N. Alfred st	Wash CB
Alfred st at Wythe st	" "
" " Madison st	" "
" " Oronoco st	" "
Montgomery st at Alfred st	Wash/insp CB

Gabriel Edge

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06/15/2015 MON.

JOB NUMBER: 1515/5.200 JOB LOCATION: City of Alex.

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	3a	8		Pick-Up Truck		
	8514	M.F Serapio	3a	8		Utility Truck		
	2527	B Ramirez	4a	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	443	8
						Flush Truck		
EXTRA		1123 powhatan	wash	CB		11		
		Pohick Rd at Second St	wash	CB		###		
		Backfield Ln @ Abingdon Dr	wash	CB		###		

MATERIAL	DESCRIPTION OF WORK
925 N. Patrick St	wash/Clean CB I
912 First St	" I " " II
First at N Alfred St	" I " " III
Colonial St @ Herman St	wash CB I
" " Second St	wash/flush/Clean CB III/inlet
1110 Colonial St	wash CB II
1116 powhatan St	insp. CB II

Joseph Edae @

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383 WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06/16/2015 TUE

JOB NUMBER: 1515/5-200 JOB LOCATION: City OF Alex

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	34	8		Pick-Up Truck		
	2527	R. Ramirez	40	8		Utility Truck		
	8514	M-F Serapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4463	8
						Flush Truck		
EXTRA		Madison St @ N. Washington				wash / clean	CB	HH
		N. Washington St @ 104 the St				INSP. CB	11	

MATERIAL	DESCRIPTION OF WORK
1011 First St	Clean/wash CB 1
1111 Powhaten St	" " " 1
W. Abingen Dr	wash CB HH
926 N. Washington St	" " 1
Pendleton St at N. Washington St	wash " 11 Flush Inlet 1
N. Washington St at Oronoco St	wash " 11
N. Union St at Oronoco St	wash / Clean CB 1 Flush Inlet 11

Gebeyehu Edae

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383 WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06-17-2015 WED

JOB NUMBER: 15/5/5-200 JOB LOCATION: City of Alex

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	34	7		Pick-Up Truck		
	2527	B. Ramirez	40	7		Utility Truck		
	8514	M.F. Serapio	43	7		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	7
						Flush Truck		
EXTRA								

MATERIAL	DESCRIPTION OF WORK
Work with City crew	2 hr
Jefferson St @ S Washington St	Wash CB ~~IIIIIIIIII~~
S Washington St @ Wilkes St	" " IIIIIIII
Prince St at the Strand	Clean/Wash CB I
" " " " "	Insp CB IIII
Truck down for an hour &	
Mechanic came & fixed it	and got back to work

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. DD

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06-18/2015 THR

JOB NUMBER: 1515/5-200 JOB LOCATION: City of Alex

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G-Edae	34	8		Pick-Up Truck		
	2527	B-Ramirez	40	8		Utility Truck		
	8514	M-F Serapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		First St at Fayette St			Wash	CB 11		
		Fayette St Wash	CB	11		INSP 11		

MATERIAL	DESCRIPTION OF WORK
N. Fayette St	Wash CB 2
1000 N. Fayette St	Wash CB 2 INSP 1
Fayette St @ First St	" " "
" " " Bradford Pl	" " HHHHH
" " " Wythe St	" " IIIII
" " " Randolph St	" " IIIIII
" " " Duke St	" " IIIII

Gebreyehu Edae (P)

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383 WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06-19-2015

JOB NUMBER: 1515/5-200 JOB LOCATION: City of Alex

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	34	8		Pick-Up Truck		
	2527	B. Ramirez	40	8		Utility Truck		
	8574	M.F Jerapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		N payne st at princess				wash CB ////		

MATERIAL	DESCRIPTION OF WORK
N. Union St @ King St	Compact room Clean/wash
S Fayette St at Prince St	Wash CB //
" " Kings St	" " ///
" " Cameron St	" " ////
Wythe St at N. Payne St	" " /////
N Payne St at Pendleton St	" " ////
" " Oronoco St	" " ////

Beberly Edae

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06/22/2015 MON.

JOB NUMBER: 15-15-15-206 JOB LOCATION: City of Alex.

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	34	8		Pick-Up Truck		
	2527	B. Ramirez	40	8		Utility Truck		
	8514	M.F Serapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	443	8
						Flush Truck		
EXTRA		West St @ Prince St wash	CB			~~IIIII~~		
		" " Queen St "	"			III		

MATERIAL	DESCRIPTION OF WORK
N. Payne St at Queen St	Wash CB III
" " Cameron St	" " IIIIII
" " King St	" " IIIIII
Commerce St	" " II
Prince St	" " II
Duke St	" " II
S West St	" " IIIII

Gebreyohannes Edae

ACCEPTED: FLIPPO CONSTRUCTION CO., INC. ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06-24-2015 WED

JOB NUMBER: 1515/5-200 JOB LOCATION: City OF Alex.

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edae	034	8		Pick-Up Truck		
	8507	B. Ramirez	010	8		Utility Truck		
	8514	M.F Jelcapio	043	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	44308	
						Flush Truck		
EXTRA								

MATERIAL	DESCRIPTION OF WORK
West St at King St	Clean/Wash CB
" " Cameron St	Wash CB
" " Princess	" "
" " Orinoco St	" "
" " Pendleton St	" "
" " Wythe St	Wash/INSP. CB
" " Madison St	Wash CB

Teberahu Edae

ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

DAILY TIME REPORT

FLIPPO CONSTRUCTION COMPANY, INC.
3820 PENN-BELT PLACE • FORESTVILLE, MD. 20747
(301) 967-6800

DATE: 06-25-2015
THR

JOB NUMBER: 1515/5-200 JOB LOCATION: City of Alex.

	PAYROLL NUMBER	NAME	CLASS	HOURS REG.	HOURS OT.	EQUIPMENT	NO.	HOURS
REGULAR CREW	8905	G. Edge	34	8		Pick-Up Truck		
	2527	B. Ramirez	40	8		Utility Truck		
	8514	M-F Serapio	43	8		Roller		
						Air Compressor		
						Tar Pot		
						Backhoe		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Sm. Dump Truck		
						Milling Machine		
						Trailer		
						Vactor Truck	4430	8
						Flush Truck		
EXTRA		S. Henry at Round House				wash/insp	IIII	
		328 Manor Ave				wash/clean/flush	CB 1	

MATERIAL	DESCRIPTION OF WORK
Monroe St at Peyton St	Wash/Clean CB II
" Earl St	Wash " III
Slater St	" " III
Princess St at N. Peyton	Clean/wash/flush CB II Inlet II
Cameron St	Wash CB IIII
Duke St at S. Payne St	" " III
1118 Duke St	" " I

Gebreyohannes Edge
ACCEPTED: FLIPPO CONSTRUCTION CO., INC.

ACCEPTED: ALEXANDRIA MAINT. DEPT.

FC-040383

WHITE: Alexandria Maint. Dept YELLOW: Billing PINK: Payroll

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : 8 6 15

COMPANY : CITY OF ALEXANDRIA VA

CREW LEADER: Isidro Davila

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
2900 HOLLY ST	3			
2700 HICKORY ST	4			
2 GROVES AV	2	0	4	
099 CATON AVE	2	0	3	
099 W WYATT AVE	2	0	2	
099 W DELRAY AVE	1			
100 E LINDEN ST	1			3
25 FORREST ST	1			
KING ST SUNSET DD	2			

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : 9-30-15

COMPANY : City of ALEXANDRIA

CREW LEADER: John Nicodemus

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
S. Royal St & GREEN St.	III		~~IIII~~	
S. Royal St. JEFFERSON St.	II	II	III	III
& 2 GRATE Drains washed/flushed Vac'd				
S. Fairfax St Jefferson St.	1. 1 GRATE / VAC'd	1	II	
S. PITT St & Franklin St	II & 2 GRATES		II	
S. Royal & Franklin St	II		II	
Wilkes & S. LEE St	1 3 GRATES		II	
200 Block Gibbon St	IIII		~~IIII~~ ~~IIII~~ II	
500 Block S. Fairfax	II		IIII	
Dew. St & E. Windsor Per 328 VAC/flush Sewer Line				
100 Prince at S. Union Per DOC flushed/vac'd washed	1		IIII	
PRINCE & The Strand Vac'd	1		1	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Monday - Nov 30, 2015

COMPANY : TEFS - Sewer Maint -

CREW LEADER: Frank Williams

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Wilkes St. at Cemetery	Clean off	Storm Drain		
S. Henry St. Gibbon St.	Clean off	Storm Drain and	Inlet	
S. Lee St. Wilkes St.	Clean off	Storm Drain		
S. Lee St. Wolfe St.	Clean off	Storm Drain		
N. Pitt St. Cameron St.			Clean out Inlet	
King St. St. Asaph St.			Clean out Inlet	
N. Washington Montgomery St.	Clean off	Storm Drain		
E. Oak St. Little St.	Clean off	Storm Drain and	Inlet	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : 30 NOV 15

COMPANY : COA

CREW LEADER: THOMAS KNIGHTON

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
735 S. LEE ST	✓			
4703 TANEY		✓		
4803 TANEY		✓		
HOLMES RUN CROSSOVER				
5209 TANEY			✓	
PAXTON & TANEY	✓			
1700 DEWITT			✓	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Tuesday - Dec 1, 2015

COMPANY : T&J's - Maint.

CREW LEADER: Franklin Williams

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Russell Rd. w. Delany Av			Clogged Inlet	Stop up
215. Woodland Ter.			Clean out Inlet	
Woodland Terr Tyler Place			Clean out Inlet	

703

~~576~~ 23.

791 - 1236

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : 1 Dec 15

COMPANY : COA

CREW LEADER: THOMAS KNIGHTON

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
PENDLETON & UNION				
JONES POINT				
113 E MONROE			✓	
COMMONWEALTH & ANGELL			✓	

INTOC

~~INSPEC~~

~ 200

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : 2 DEC 15

COMPANY : COA

CREW LEADER: THOMAS KNIGHTON

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
1024 KING ST			✓	
903 KING ST AND ALFRED			✓	
1229 KING ST			✓	
MOUNT VERNON & EUHLER			✓	

703 659 2060

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Wenday - Dec 2, 2015

COMPANY : TC's - Maint -

CREW LEADER: Frank Willis

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Summit Av. Dalrent DR.			Clean out Inlet	
Manor Road Land Plan			Clean out Inlet	
Commonwealth E. Glebe Rd.	Clean off	storm Drain		
20. E. Raymont	Clean off	Storm Drain and		Inlet
W. [redacted] Vue Commonwealth	Av. Av.		Clean out Inlet	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Thursday - Dec 17, 2015

COMPANY : TEJS - Maint -

CREW LEADER: Frank Williams

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Cameron ST. N. Lee ST.	Clean off Storm Drain			
Prince ST. N. West ST.			Clean out Inlets	
Tennessee Ave Hayes Ave			Clean out Inlet	
600. Four Mile Rd.			Clean out Inlet	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Tuesday - Dec 22, 2015

COMPANY : TEJS- Maint-

CREW LEADER: Frank Willian

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
1400 W. Arlington Drive,	Need to Be Flush and Cut Tree Roots		Clean out Inlet	
W. Arlington DR. Bushford Lane			Clean out Inlet	
Madison ST. N. ST. Asaph ST.			Clean out Inlets	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Wednesday - Dec 23, 2015

COMPANY : TEJS - Sewer Maint -

CREW LEADER: Frank William

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
High St. Russell Rd.	Clean out	Storm	Drain Pipe	
Pendleton St. Second St.			Clean out Inlet	
First St. Pendleton St.			Clean out Inlet	
First St. N. Columbus St.			Clean out Inlet, Need to Be Flush	
Princess St. N. Washington St.			Clean out Inlet	
Gibbon St. S. Columbus St.			Clean out Inlets	
Madison St. N. Alfred St.			Clean out Inlet	
Duke St. S. Royal St.			Clean out Inlet	
Wythe St. N. Henry St.			Clean out Inlet	
Commonwealth E. Glebe	Clean	off Storm	Drain	
2700 Mt. Vernon			Clean out Inlet	

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE : Monday - June 1, 2015

COMPANY : T & S - Sewer Maint -

CREW LEADER: Frank Williams

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Wilkes St. at Cemetery	Clean off Storm Drain Cute			
Franklin St. S. Pitt St.	Clean off Storm Drain			
S. Lee St. Wilkes St.	Clean off Storm Drain			
S. Lee St. Wolfe St.	Clean off Storm Drain			
N. Washington St. Madison St.	Clean off Storm Drain			
N. Columbus St. Wythe St.			Clean out Inlet	
N. Columbus St. Oronoco St.	Clean off Storm Drain			
Lombardy St. Sycamore St.			Clean out Inlet	
Montrose A. Wermond DR.			Clean out Inlet	
Montrose A. Evans Lane			Clean out Inlet	
130. Cambridge Rd.			Clean out Inlet	
Ruffner Rd. Timberbranch Pkwy.	Clean off Storm Drain			

CITY OF ALEXANDRIA COMBINED SEWER SYSTEM

CATCH BASIN AND INLET CLEANING PROGRAM

DATE :

COMPANY :

CREW LEADER:

LOCATION	CATCH BASIN CLEANED	CATCH BASIN INSPECTED	INLETS CLEANED	INLETS INSPECTED
Summers DR. Timberbrook	Pump.		Clean out Inlet	

Appendix I

Leaf Collection Program

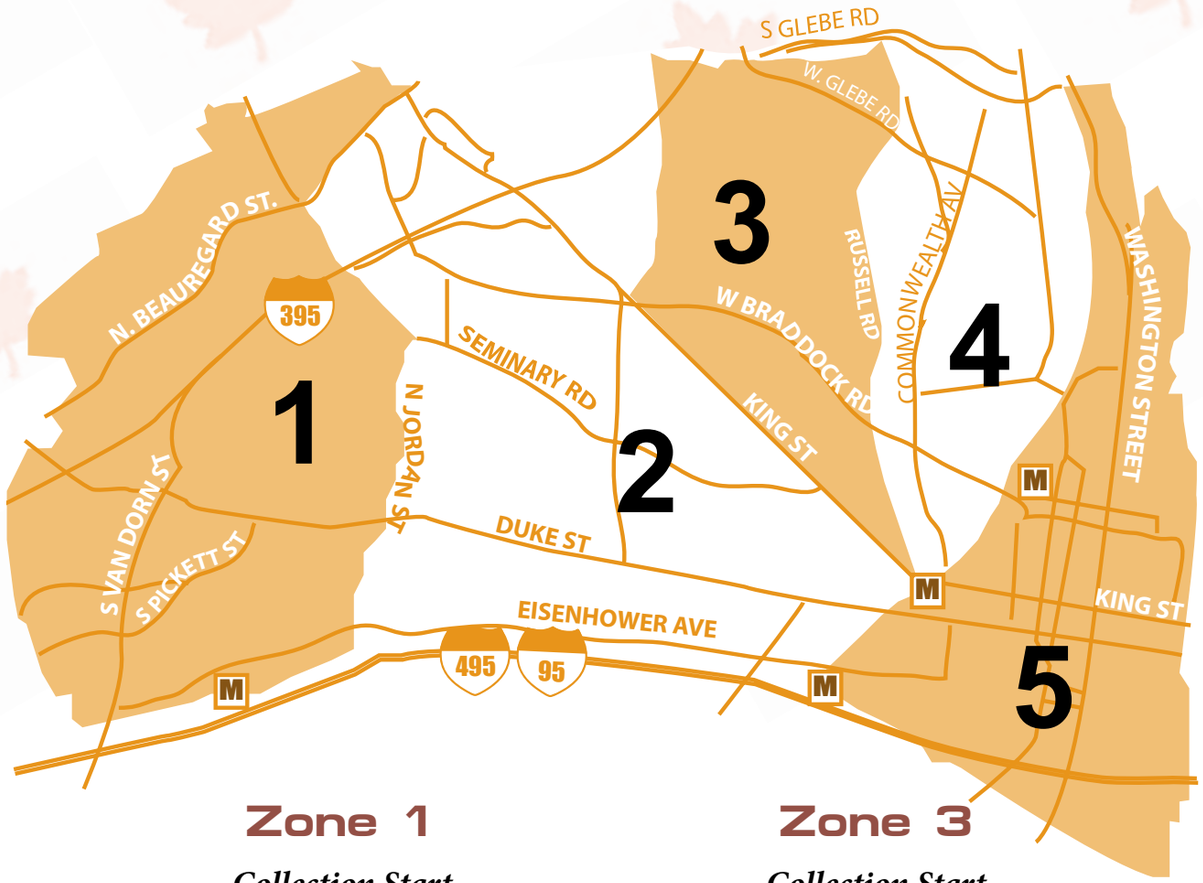
LEAF VACUUMING SCHEDULE

Leaf Vacuuming

T&ES leaf crews will make three passes in each zone located throughout the City during leaf season. Due to the possibility of inclement weather and potential delays, we encourage residents to visit alexandriava.gov/LeafCollection or call 703.746.4357 for specific dates for the second and third passes in each zone.

HOW TO PREPARE

- Rake leaves out the day before your Collection Start dates.
- Rake leaves into piles at the street curb. This enables crews to move more quickly and efficiently.
- Remove stones, litter, branches or other debris. These items can damage our equipment and hurt our workers.
- Avoid placing leaves in front of storm drains or water meter covers.
- Move parked cars off leaf piles.
- Do not rake leaves into alleys or service roads.



Zone 1

Collection Start
November 11

Zone 2

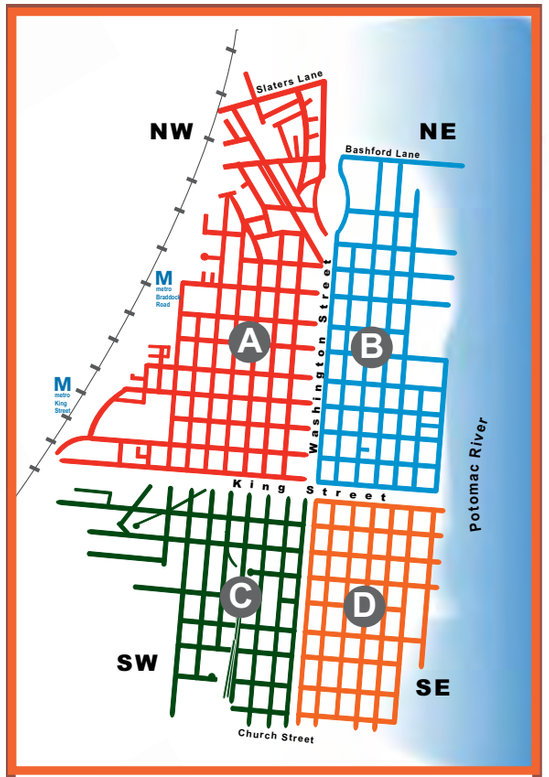
Collection Start
October 26

Zone 3

Collection Start
October 29

Zone 4

Collection Start
November 5



Zone 5 - Old Town

SECTION A	***Collection Start*** October 26
SECTION B	***Collection Start*** October 29
SECTION C	***Collection Start*** November 5
SECTION D	***Collection Start*** November 11

UPDATED SCHEDULE @ ALEXANDRIAVA.GOV/LEAFCOLLECTION

Leaf Bag Collection

Leaf bags are collected curbside on your regular trash collection day. Leaf bag collection runs from October 26 through December 30.

HOW TO PREPARE

- Use free City bags. Using paper bags allows the City to recycle leaves into mulch. Leaves in plastic bags will be thrown away as trash at the Covanta Energy-from-Waste plant.
- Remove dirt, stones, litter, and other debris from leaves before placing in bags.

Free City leaf bags are available starting October 19 at the following locations:

Limit of 15 bags per visit. (Residents only)

City Hall:
301 King Street
Monday –Friday, 7am – 8pm

Field Office City of Alexandria:
2900 Business Center Drive
Monday – Saturday, 8am – 5pm

Charles Barrett Recreation Center:
1115 Martha Custis Drive
Monday – Friday, 2pm – 6pm

City Leaf Bag locations continued:

Chinquapin Recreation Center:
3210 King Street
Monday – Thursday, 6am – 9pm
Friday, 6am - 6pm
Saturday & Sunday, 8am – 6pm

William Ramsay Recreation Center:
5650 Sanger Avenue
Monday – Friday, 9am – 9pm
Saturday, 9am – 11pm
Sunday, 1pm – 5pm

Mount Vernon Recreation Center:
2701 Commonwealth Avenue
Monday – Friday, 9am – 9pm
Saturday, 9am – 6pm

Compost Leaves at Home

Composting takes advantage of nature's recycling to make a valuable organic supplement and can be done in your own backyard. Check at your local hardware store to purchase a compost bin.

For more information visit:

alexandriava.gov/LeafCollection
Leaf Collection Hotline: 703.746.LEAF (5323)
City Customer Service: 703.746.HELP (4357)
Sign up today for Resource Recovery Announcements at alexandriava.gov/eNews

Like us on Facebook: TES/AlexandriaVA

Presort Standard
U.S. Postage
PAID
Permit # 2782
Merrifield, VA

City of Alexandria
Transportation and Environmental Services
Resource Recovery Division
2900 Business Center Drive
Alexandria, VA 22314

Printed on Recycled Paper
30% Post Consumer Waste

READY, RAKE, RECYCLE!

Leaf Collection Schedule

Collection Begins October 26, 2015

Eco-City Alexandria

Appendix J

Illicit Discharge Ordinances

CHAPTER 6 - Water and Sewer

Cross References: Water supply in foodhandling establishments, Sec. 11-2-171 et seq.; drinking water in nursery schools, Sec. 12-3-44.

ARTICLE A - Water

Editorial Note: Ord. No. 4747, § 1, adopted Jan. 21, 2012, repealed § 5-6-1 and renumbered the remaining sections of Art. A as set out herein. The historical notation has been retained with the amended provisions for reference purposes. The former § 5-6-1 pertained to water use in emergencies and derived from § 40-1 of the 1963 Code.

DIVISION 1 - Stagnant Water

Sec. 5-6-1 - Stagnant water—owner to fill in place of collection.

(a) It shall be the duty of the owner of any lot or parcel of land located in the city which, because of the contour of the surface of the land, catches and holds rain and surface water, so that pools or ponds of stagnant water result, to fill in the lots, or parcels of land with earth to a grade as will prevent the collection of pools or ponds of stagnant water. In cases where the basin formed by the contour of the land in which the water collects is composed of two or more lots or parcels of land in separate ownership, the owners shall be responsible for the filling in of the portions of their respective lots or parcels of land as may be affected. At the request of any owner, the city engineer shall furnish the proper grade to which the fill should be made.

(b) The provisions of this section shall be applicable in all cases where stagnant water collects, whether the result of abandoned excavations, establishments of street grades or otherwise. (Code 1963, Sec. 40-2; Ord. No. 4747, § 1, 1-21-12)

Charter Reference: Power of city as to grounds subject to be covered by stagnant water, Sec. 2.04(m).

Cross Reference: Drainage of driveways of filling stations, Sec. 9-7-6.

Sec. 5-6-2 - Same—action by city when owner refuses to fill in.

(a) In the event that any owner shall fail or refuse to fill in any lot or parcel of land as provided in the preceding section, within 10 days of receipt of written notice from the city manager to do so, the notice to be sent by registered mail, the city manager may cause the lot or parcel of land to be filled in with earth to the proper grade, and the cost thereof shall be a charge against the owner and the amount thereof shall be certified by the city manager to the director of finance to be added to the current tax bill against the land, which shall constitute a lien thereon as a part of the current tax bill, and the charges shall bear interest at the rate of six percent commencing 30 days after completion of this work.

(b) In addition to certifying the amount of the charges to the director of finance, the city manager may certify same to the city attorney for any appropriate action at law to recover that as may be deemed proper. (Code 1963, Sec. 40-3; Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-3 - Same—penalty for violation of two preceding sections.

Any violation of the provisions of the two preceding sections shall be subject to a fine of not less than $5 nor more than $100, and each day that any owner fails or refuses to comply after 10 days from receipt of the written notice from the city manager as provided in the preceding section, shall constitute a

separate offense, but the notice shall not be prerequisite to liability for violation of the provisions of section 5-6-2 of this Code. (Code 1963, Sec. 40-4; Ord. No. 4747, § 1, 1-21-12)

DIVISION 2 - Water Supply Emergency

Sec. 5-6-4 - Purpose.

The purpose of this division is to provide for the necessary reduction and curtailment of water usage through voluntary and/or mandatory restrictions during a water shortage condition or water supply emergency affecting the city and its residents and businesses. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-5 - Definitions.

(a) *Water shortage condition.* A state wherein the Potomac River Basin is experiencing unusually dry weather, or a state wherein there exists the potential for a water supply emergency if water demands are not reduced.

(b) *Water supply emergency.* A condition wherein the present or expected future ability of the city to deliver adequate supplies of water to customers to enable normal levels of potable water usage is endangered due to an extended drought and/or disruption in the city's water supply system. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-6 - Declaration of water shortage condition.

(a) Whenever the city manager, or designated agent, determines that a water shortage condition exists, a water shortage condition may be declared by the city manager. The city manager, or designated agent, shall notify the general public that a water shortage condition has been declared and that more specific voluntary restrictions of water usage by residents and businesses are requested in order to help preserve the supply of potable water to the city.

(b) Upon the declaration of a water shortage condition, the city manager, or designated agent, may issue voluntary restrictions or recommend water conservation practices to help preserve the supply of potable water to the city. Such voluntary restrictions or conservation practices may include, but shall not be limited to, voluntary restriction of one or more of the following:

(1) Watering of shrubbery, trees, lawns, grass, plants, or other vegetation, except plants of flowers grown by a duly licensed florist;

(2) Washing of automobiles, trucks, trailers or other mobile equipment, except in a vehicle wash facility with an effective and efficient water recycling system;

(3) Washing of streets, driveways, parking lots, service station aprons, the exterior of commercial or residential buildings, or any other outdoor surfaces unless such washing is required to eliminate a hazard;

(4) Operation of any ornamental fountain or other structure making similar use of water;

(5) Serving water to customers in restaurants, cafeterias, or any other establishment, unless specifically requested;

(6) Filling of swimming and/or wading pools and use of water for outdoor recreation;

(7) Use of water from fire hydrants, except for health and safety purposes;

(8) Request water users to inspect all plumbing and repair leaks; and

(9) Suggestion of a maximum daily consumption goal for residents to strive and achieve.

(c)

At any time after the declaration of a water shortage condition, if the city manager determines that such a condition no longer exists, then he or she may declare the rescission of the water shortage condition and the termination of all associated voluntary restrictions and recommended water conservation practices. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-7 - Declaration of water supply emergency.

(a) Whenever the city manager finds that a water supply emergency exists, or is reasonably likely to occur if water conservation measures are not taken, he or she may declare a water supply emergency restricting or prohibiting the use of water by residents and businesses for the duration of such emergency or for a period of time necessary to prevent the occurrence of a water supply emergency. Such a condition may be determined from information obtained by the city manager through the city's water supplier (Virginia American Water Company), information obtained from a recognized authority, or from other sources as determined appropriate and prudent by the city manager.

(b) Upon the declaration by the city manager of a water supply emergency he or she is authorized to promulgate and implement, in writing, mandatory water consumption restrictions or prohibitions necessary to preserve the ability of the city to provide adequate and acceptable levels of potable water to preserve the public health, safety and welfare. Water restrictions or prohibitions promulgated by the city manager may include, but shall not be limited to, restriction or prohibition of one or more of the following activities as provided in section 5-6-6(b).

(c) If, at any time after the city manager declares a water supply emergency and the city manager finds that a water supply emergency no longer exists, then the city manager may declare that the water supply emergency has ended. At any time during a water supply emergency, the city manager may, by written declaration, declare the rescission, in whole or in part, of any restrictions or prohibitions promulgated and implemented under section 5-6-7(b). Such declarations by the city manager shall be based upon a factual finding that the ability of the city to deliver acceptable quantities of potable water is no longer limited, or that the extent of the declared emergency is reduced and that the existing restrictions or prohibitions, or some part thereof, are no longer required to protect the public health, safety and welfare.

(d) The city manager, or designated agent, shall notify the general public, and the city council, when the city manager promulgates, or rescinds, mandatory restrictions or prohibitions authorized by this section or by any ordinance adopted hereafter. Such notification shall describe the mandatory restrictions and prohibitions promulgated or rescinded by the city manager, the effective date or dates thereof, and the penalties for noncompliance. Such a notice to the general public shall be published in a newspaper of general circulation within the city and posted in a public space in the city manager's office. Such notice shall be deemed due and proper notice to every customer supplied with water by the city. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-8 - Exemptions of essential uses for public health, safety and welfare.

The provisions of any declaration by the city manager of a water supply emergency, and any restrictions or prohibitions implemented by the city manager, shall not apply to any governmental, business, or industrial use which is deemed by the city manager to be essential to the preservation of the public health, safety and/or welfare. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-9 - Appeals.

Upon receipt of a written request by an individual customer of water supplied by the city, the city manager, for good cause shown, including evidence that the applicant is affected in a substantial manner not common to other persons or businesses generally, may permit less than full compliance with any of

the water restrictions or prohibitions promulgated during a declared water supply emergency. No waiver shall be granted by the city manager unless he or she determines that the public health, safety and welfare will not be adversely affected by the waiver. (Ord. No. 4747, § 1, 1-21-12)

Sec. 5-6-10 - Penalties.

(a) Any person who violates or fails to comply with any of the mandatory provisions of this division may be charged with a Class Five civil violation and may be fined as provided in section 1-1-11(b)(5) of this Code.

(b) The imposition of a fine or penalty for violating any of the mandatory provisions of this division shall not excuse the violation or permit it to continue.

(c) The city manager, or designated agent, may seek suspension of water service to any violator of the mandatory provisions of this division by injunction, abatement or other appropriate legal remedy, if the city manager determines that such action is necessary to prevent any continued or future violation. (Ord. No. 4747, § 1, 1-21-12)

Secs. 5-6-11 through 5-6-20 - reserved.

ARTICLE B - Sewage Disposal and Drains

DIVISION 1 - General Provision

State Law Reference: Authority of city to regulate sewer connections,Code of Va., Sec. 32-61; power of council to construct, etc., sewers and drains, Code of Va., Sec. 15.1-292.

Cross Reference: Power of city as to assessments for construction of sewers, culverts and drains, City Charter. Sec. 2.03, subsec. (e); power of city as to sewer pipes and connections, Charter. Sec. 2.04, subsec. (h); construction of sewers or drains in future subdivisions. Sec. 5-2-4 of this code; acceptance of streets, sewers or drains in future subdivisions. Sec. 5-2-5; constructing sewers or drains in existing subdivisions, Sec. 5-2-6.

Sec. 5-6-21 - Control of council.

All sewers, storm, water, sanitary or combined, except house connections from curb line to lot line, that have heretofore been or may hereafter be constructed by any person under any street, road, alley or park space or under any private court or alley, and which have been or may hereafter be connected into any sewer constructed by or belonging to the city, shall be under the jurisdiction and control of the city council so long as such sewer shall remain connected with any sewer constructed by or belonging to the city. (Code 1963, Sec. 28-1)

Sec. 5-6-22 - Installed by contract with council.

All sewers that may be constructed by any person in any street, road, alley or park space now open to the public use, any street, road, alley or park space duly dedicated for public use in any city easement or grant or in any area under city option or agreement shall be installed by or under contract with the city council, and shall be of the size and established at such grades and constructed according to such other specifications as may be prescribed by the director of transportation and environmental services; except, that service connections running from a city sewer main, trunk or lateral to any premises shall be installed by the owner as hereinafter provided. (Code 1963, Sec. 28-2)

Sec. 5-6-23 - Constructed so as to require separate and direct service for each house, building or parcel of property.

Any extension of the sewer system from sewers now built or hereafter built shall be constructed so that each house, building or separate parcel of property that connects with or is served by or through any part of the city sewer system shall be connected separately and directly with the city system, when and after the full amount required by section 5-6-25 has been paid into the city treasury, in accordance with provisions of section 5-6-31. (Code 1963, Sec. 28-3)

Sec. 5-6-24 - Duty of owner to connect; emptying into wells, tanks or open streams prohibited.

The owner of any dwelling or other building in which human beings live or congregate shall, whenever a trunk line or lateral line sewer is available, connect the dwelling or building with such trunk line or lateral line sewer, subject to the provisions of this article. It shall be unlawful for any person to empty any sewer or sewer system into any well, septic tank or open stream in the city, when a public trunk or lateral line sewer is available with which to connect. (Code 1963, Sec. 28-4)

Sec. 5-6-25 - Sewer taps; clearance for sewer or water systems.

(a) Sewer taps shall be at least two feet apart. Sewer taps into public manholes must be approved by the director of transportation and environmental services before the tap is made. Taps into public storm sewers shall be made as directed by the director of transportation and environmental services. Trenches and excavations shall be kept free from water to permit adequate inspection.

(b) All sewer taps and laterals in public streets, roads, pavements, alleys and utility rights-of-way must be free of jumps; and grades shall not exceed one-quarter inch per foot until they reach the property line or the limit of the public sewer easement unless approved in advance by the director of transportation and environmental services.

(c) Clearance required. A house sewer or water system shall be laid in such a manner that the system can be serviced and maintained without entering or disturbing adjacent property unless an easement has been recorded which is adequate for that purpose. (Ord. No. 4659, 5/15/10, Sec. 7)

Editor's note— Prior to the reenactment of § 5-6-25 by Ord. No. 4659, Ord. No. 4257, § 3, adopted June 15, 2003, repealed § 5-6-25, which pertained to sewer connection permits and service fees; construction costs; constructing sewers by owners rather than city; additional connections. See the Code Comparative Table.

Sec. 5-6-25.1 - Sewer connection permits and service fees; construction costs; constructing sewers by owners rather than city; additional connections.

(a) Any person who is required, or who desires, to provide a connection for sewer service from his property, through any sewer constructed by or belonging to the city or any sewer serving the area annexed to the city in 1952, but belonging to a county, by direct connection at a city sewer main, trunk or lateral, shall, before starting to make such connection, apply to the director for a permit to make the connection, and the director shall issue a permit for the sewer connection when and after the person shall have paid to the department of finance the sum hereinafter provided.

(1) For each single family dwelling, townhouse dwelling, or townhouse type dwelling irrespective of classification for other purposes, or for each dwelling unit in a two-family dwelling, the amount of $8,404.

(2) For each multifamily dwelling, an amount equal to the product of the number of dwelling units in the multifamily dwelling, multiplied by $4,201. For all final site plans submitted on or after September 1, 2013, the amount shall be increased to 90 percent of the single family dwelling amount.

(3)

For each hotel room, an amount equal to the product of the number of dwelling units in the hotel multiplied by $4,201. For all final site plans submitted on or after September 1, 2013, the amount shall be increased to 70 percent of the single family dwelling amount, and for all final site plans submitted on or after July 1, 2014, the amount shall be increased to 90 percent of the single family dwelling amount.

(4) For each nonresidential property, an amount determined in accordance with the following fee schedule based on the size of each water meter which serves such nonresidential property:

Meter Size (inches)	Max. Capacity (GPM)	¾" Meter Equiv.	Fee
¾ or smaller	30	1.00	$8,404
1	50	1.67	$14,034
1½	100	3.33	$27,985
2	160	5.33	$44,793
3	320	10.76	$90,425
4	500	16.67	$140,092
6	1000	33.33	$280,101
8	1600	53.33	$448,178
10	2300	76.67	$644,323

(5) For each mixed use property, where such property includes both residential and nonresidential uses, an amount equal to the sum of the fee determined for the residential portion of such property, in accordance with this section, plus the fee determined for the nonresidential portion of such property, in accordance with this section; provided, however, if the residential portion and nonresidential portion of such property are served by a single water meter, the fee shall be an amount determined by the director in his reasonable discretion.

(6) For connections that involve the removal of an existing structure with an existing tap, a credit for the existing tap shall be applied towards the total connection fee otherwise due in accordance with this section for final site plans submitted on or after September 1, 2013. The amount of the credit shall be estimated by the director and shall be based on the previous use. The credit shall only apply to properties removed or demolished not longer than three years prior to the submission of the final site plan for the new structure. The credit shall be equal to 50 percent of the current fee that would be applied to the structure or structures being removed. For mixed use properties, the credit will be

based on the sum of the residential credit and nonresidential credit, in accordance with this section. If the previous use was served by a single water meter, the credit shall be an amount determined by the director in his reasonable discretion.

(7) For an existing property that changes its use, such as from non-residential to residential (or vice versa), increases the number of residential units or hotel rooms, or adds or increases the water meter size to account for the change in use, the amount shall be calculated as follows:

(i) If the same sewer connection (tap) is utilized, then the fee shall be based on the net increase in units (or usage) between the existing and proposed uses.

(ii) If a new sewer tap is required, then the fee shall be set in accordance with the fees for new construction set forth in this section, net of any credits due pursuant to section (6) above.

(8) In cases where a DSP/DSUP extension is filed after the connection fees have been established for a development project (following final plan submission), the connection fee rate shall be revised to reflect the current fee structure in effect at the time the extension is approved. For all final site plans submitted prior to April 1, 2013, one DSP/DSUP extension may be granted without revising the connection fee rate previously established at the time of the final site plan submission.

(9) Sections (1) through (4) reflect the fees for final site plans submitted before July 1, 2013. Beginning in fiscal year 2014 and going forward, the foregoing fees shall increase each year at the rate of inflation as determined by the annual CPI-U for the Washington-Baltimore-Northern Virginia, DC-MD-VA-WVA Combined Statistical Area and shall apply to all final plans filed submitted between July 1 of that year and June 30 of the subsequent year.

(b) Extension of service; credits for such extension.

(1) A person required or desiring to provide extension of sewer service to his property shall construct or have constructed such extension at his own expense. The person shall execute a satisfactory agreement with the city, as prescribed by the city manager, agreeing to construct such sewer or sewers in accordance with plans and specifications approved by the director and the person shall in addition furnish such guarantee of performance and maintenance to the city as the city manager may require. Such sewers shall become the property of the city upon completion and acceptance of the work.

(2) If, pursuant to a written requirement of the director, the person constructs such extension in a manner that exceeds the requirements to provide service to the property of such person, a credit shall be available to be applied to the fees otherwise due under this section, in an amount equal to the difference between the cost of such extension, constructed in accordance with the written requirement of the director, and the cost of such extension, constructed as originally proposed by the person, such amount to be determined by the director. The amount of the credit shall be estimated by the director prior to commencement of construction, and an interim fee shall be paid by the person in an amount equal to the fees otherwise due under this section minus the estimated credit; provided, the minimum interim fee shall be for each single family dwelling, townhouse dwelling or dwelling unit in a two-family dwelling residential unit, $100, for each dwelling unit in a multifamily dwelling, $100, and for each floor of a nonresidential property, $100 or $0.08 per square foot of floor space, whichever is greater.

(3) Upon satisfactory completion of the work, the actual amount of the credit shall be determined by the director based on certified bills submitted to and approved by him. The final fee to the person shall be an amount equal to the fees otherwise due under this section minus the amount of the actual credit; provided, the minimum final fee shall be for each single family dwelling, townhouse dwelling or

dwelling unit in a two-family dwelling residential unit, $100, for each dwelling unit in a multifamily dwelling, $100, and for each floor of a nonresidential property, $100 or $0.08 per square foot of floor space, whichever is greater. Any difference between the interim fee and the final fee shall immediately be paid to or refunded by the department of finance.

(4) If the amount of the credit estimated under subsection (b)(2) above exceeds the amount of the fees otherwise due under this section without regard to the minimum fee calculated under subsection (b)(2) of this section, prior to the commencement of construction, the city shall agree to pay the person an amount equal to such excess or shall withdraw the written requirement of the director for construction of such extension in a manner that exceeds the requirements to provide service to the property of such person.

(c) Exclusions and exemptions.

(1) Notwithstanding anything to the contrary contained in this section, no fee shall be charged to connect a sewer system or sewage disposal system which serves exclusively a fire sprinkler system, installed pursuant to section 906.0 of the Virginia Uniform Statewide Building Code, as amended, a fire standpipe system, installed pursuant to section 915.0 of the Virginia Uniform Statewide Building Code, as amended, or a yard hydrant, installed pursuant to section 917.0 of the Virginia Uniform Statewide Building Code, as amended.

(2) Notwithstanding anything to the contrary contained in this section, no fee shall be charged to connect a sewer system or sewage disposal system which serves property owned by the Alexandria City Public Schools, the Alexandria Redevelopment and Housing Authority, or an entity in which the Alexandria Redevelopment and Housing Authority holds an ownership interest and the purpose of such entity is to develop property using federal low income tax housing credits.

(3) The fees established and imposed by this section shall not apply to a connection where (i) such connection is within the limits of a coordinated development district approved by city council, (ii) the main or trunk line to which such connection will be made extends from such coordinated development district directly to the publicly owned treatment works of the Alexandria Sanitation Authority, without connection at the time of its construction to any city sewer, unless such a connection is made pursuant to a written requirement of the director and exceeds the requirements to provide service to the coordinated development district, (iii) such main or trunk line was constructed totally at private expense, and (iv) the application for such connection is submitted within 22 years of the date of issuance of the first building permit subsequent to April 1, 2002, within such coordinated development district. Upon satisfaction of the foregoing criteria, a permit for the sewer connection shall be issued upon payment of a fee for each single family dwelling, townhouse dwelling or dwelling unit in a two-family dwelling residential unit, of $100, for each dwelling unit in a multifamily dwelling, of $100, and for each floor of a nonresidential property, of $100 or $0.08 per square foot of floor space, whichever is greater; provided, however, in the event construction of the improvements to be served by such permitted connection has not substantially commenced within 23 years of the date of issuance of the first building permit subsequent to April 1, 2002, within such coordinated development district, the permit for the sewer connection issued shall expire and thereafter the fees established and imposed generally by this section shall apply.

(d) If the city manager finds that construction of an extension by a person would constitute a hardship on such person, by reason of his inability to secure a satisfactory contract, or otherwise, the city manager may direct that the construction be done by or for the city; provided, however, that the cost to the city shall not exceed the fees paid by such person less for each single family dwelling, townhouse dwelling or dwelling unit in a two-family dwelling residential unit, $100, for each dwelling

unit in a multifamily dwelling, $100, and for each floor of a nonresidential property, $100 or $0.08 per square foot of floor space, whichever is greater. Costs in excess of such fees shall be paid by the person prior to making any connection to such sewer.

(e) The total sum to be paid to the department of finance for sewer service at the city sewer main, trunk or lateral for any property in the city, the sewage of which will be transported from such property through sewers constructed previously by private parties into sewers constructed or belonging to the city, except for such sewers as may have been constructed by private parties under the control or supervision of the city or other public authority, shall be as provided generally in this section for each such property so connected.

(f) Any person desiring additional sewer service connection to any property shall make application to the director for permission to construct such connection and shall pay to the department of finance the sum as provided generally in this section for each additional connection prior to the issuance of the permit for the sewer connection.

(g) Nothing in this chapter shall be construed to prevent the city sanitation authority from making a service charge for collecting and treating sewage. (Ord. No. 4257, 6/15/02, Sec. 1; Ord. No. 4394, 5/2/05, Sec. 1; Ord. No. 4536, 5/5/08, Sec. 1; Ord. No. 4682, 10/16/10, Sec. 1; Ord. No. 4730, 6/25/11, Sec. 1; Ord. No. 4808, 5/18/13, Sec. 1)

Editor's note— It should be noted that § 2 of Ord. No. 4257 provides, "That the provisions of section 5-6-25.1 shall become effective on July 1, 2002, and shall apply to all applications for permits for sewer connections which may be filed after such date; provided, however, that: (a) With respect to any property for which a preliminary site plan was filed with the city and determined by the Director of Planning and Zoning to be complete prior to April 1, 2002, the applicable fee shall be determined in accordance with section 5-6-25, with the exception of any credit, which shall be determined not in accordance with subsection (e) of section 5-6-25, but in accordance with subsection (b) of section 5-6-25.1; provided, however, in the event construction of the improvements to be served by such permitted connection has not substantially commenced prior to April 1, 2004, the permit for the sewer connection issued shall expire and thereafter the fees established and imposed by section 5-6-25.1 shall apply, without any adjustment.

(b) With respect to any property for which a preliminary site plan is filed and determined by the Director of Planning and Zoning to be complete from April 1, 2002, until September 30, 2002, the fee shall be the product of the fee determined in accordance with section 5-6-25.1 , multiplied by fifty percent (50%); provided, however, in the event construction of the improvements to be served by such permitted connection has not substantially commenced prior to April 1, 2004, the permit for the sewer connection issued shall expire and thereafter the fees established and imposed by section 5-6-25.1 shall apply, without any adjustment.

(c) With respect to any property for which a preliminary site plan is filed or determined by the Director of Planning and Zoning to be complete from and after October 1, 2002, the fee shall be as provided in section 5-6-25.1 , without any adjustment." See the Code Comparative Table.

It should be noted that § 2 of Ord. No. 4536 provides that "this ordinance shall become effective on the date and at the time of final passage, and shall apply to all applications for permits for sewer connections which may be filed after such effective date; provided, however, that with respect to any property for which the first final site plan was filed with the city on or before April 1, 2008, the applicable fee shall be determined in accordance with Section 5-6-25.1 prior to amendment."

Sec. 5-6-26 - Sewer line maintenance charge imposed; provisions for collection; liens and cessation of water service for delinquent charges.

(a) There is hereby imposed, upon all parcels of real estate from which sewerage is discharged into lines maintained by the city, a sewer line maintenance charge of $1.20 per quarter or $1.25 for every 1,000 gallons of water supplied per quarter to such parcel by the Virginia-American Water Company, whichever is the greater sum; provided, that if the charge for water supplied to any parcel is billed on a monthly basis, the sewer line maintenance charge imposed on the parcel shall be $0.40 per month or $1.25 for every 1,000 gallons of water supplied per month to such parcel, whichever is greater; and provided, further, that for any parcel of real estate having more than one meter for the measurement of water consumption attributable to that parcel, one or more of which meters measures only water which will not be discharged into the sanitary sewer lines of the city, that parcel shall be charged as provided herein on the total water consumption attributable to that parcel after subtracting the amount of water not discharged into the sanitary sewer lines of the city.

(b) For the purpose of this article, bills shall be considered monthly bills if submitted 12 times per year for periods of approximately one month each and quarterly bills if submitted four times per year for periods of approximately three months each.

(c) The sewer line maintenance charge shall in every case be collected by the Alexandria sanitation authority or its designee from the owner, lessee or tenant of each parcel, or some or all of them, and remitted by the Alexandria sanitation authority or its designee to the city in such manner and on such terms as shall be agreed upon by the water company and the city council, consistent with the provisions of this section. In the event any such charges are unpaid 30 days after the date they are billed by the Alexandria sanitation authority or its designee as hereinabove provided, interest shall at that time begin to accrue thereon at the rate of one percent per month, and the owner, lessee or tenant, as the case may be, of the parcel of real estate on which the charge was imposed shall, until such charges shall be paid with interest to the date of payment, cease to dispose of sewage or industrial waste originating from or on such real estate by discharge thereof directly or indirectly into the sewer line maintained by the city, and is such owner, lessee or tenant shall not cease disposal within two months thereafter, the water company shall cease supplying water thereto unless the Director of the Alexandria Health Department shall certify that the shutting off of the water will endanger the health of the occupants of the premises or the health of others. Such charges and interest thereon shall constitute a lien against the property, ranking on a parity with liens for unpaid taxes. (Code 1963, Sec. 28-5.1; Ord. No. 3793, 5/3/95, Sec. 1; Ord. No. 4301, 5/17/03, Sec. 1; Ord. No. 4348, 5/3/04, Sec. 1; Ord. No. 4393, 5/2/05, Sec. 1; Ord. No. 4778, 11/17/12, Sec. 1)

Sec. 5-6-27 - Duty of director of transportation and environmental services to compute amounts due city.

In the event that any persons affected by any of the provisions of this article should fail, after 10 days' notice in writing from the city manager, to do that which may be required under the provisions of this article, it shall be the duty of the director of transportation and environmental services to compute the sewer service fee due to the council that may be applicable in each instance under the provisions of this article and certify same to the director of finance and the amount so certified shall be a lien against the real estate as a part of, and the same as, taxes duly assessed against the real estate by the city.

Sec. 5-6-28 - Unlawful to connect without permit and payment.

It shall be unlawful for any person to make any sewer service connection from any property, which abuts a public sewer to the public sewer system, either directly or indirectly, through any other sewer, without first having obtained a permit from the director of transportation and environmental services and

paid into the city treasury the amount required by section 5-6-25 of this code for public sewer service. (Code 1963, Sec. 28-7)

Sec. 5-6-29 - Connection lines running from city sewer main, trunk or lateral to the premises.

(a) The owner of any property desiring sewer service shall be responsible for the construction and maintenance of connection lines running from the city sewer main, trunk or lateral to the premises. The connections shall be installed by a duly authorized and licensed master plumber and all work shall be in accordance with the provisions of the Uniform Statewide Building Code and the building code of the city.

(b) Connection lines shall be connected to the sewer main, trunk or lateral by means of cast-iron saddle approved by the director of the department of transportation and environmental services. No connection shall be less than four (4) inches inside diameter. Bedding for connections within a street, alley or other right of way shall conform to standards of the department of transportation and environmental services. It shall be unlawful for any person to make any connection with any public or city sewer main trunk or lateral without first notifying the city plumbing inspector.

(c) The owner of any property furnished sewer services shall be responsible for keeping the sewer lines between the premises and the city sewer main, trunk or lateral free and clean and in good repair, but it shall be unlawful for any person to break, dig up, or disturb any portion of any sidewalk, street, alley or right-of-way for sewer maintenance or repair without first notifying the city plumbing inspector.

(d) It shall also be the duty of any person disturbing, breaking or digging up any portion of any sidewalk, street, alley or right of way for sewer maintenance to furnish and maintain proper warnings and barricades.

(e) Notwithstanding the above provisions of this section, the city will continue to service and maintain those connection lines, running between the city sewer mains, trunks and laterals and the curb lines that were installed prior to July 1, 1955. (Code 1963, Sec. 28-8)

Sec. 5-6-30 - Property binding on certain old sewers.

Property binding on certain old public sewers constructed by the city on private property, and property binding on certain old sewers built on private property and used by the city with the consent of the property owners as public sewers, shall have the right to public sewer service without paying the amount into the city treasury required by section 5-6-25 or section 5-6-27 of this code, by the requirements of section 5-6-28 of this code relative to permit from and construction under the supervision of the director of transportation and environmental services of any property sewer service connections shall be compiled with by any person desiring to make any sewer service connection with the public sewers built on their property. (Code 1963, Sec. 28-9)

Sec. 5-6-31 - Obstructing, breaking or injuring sewers, catch basins or manholes; garbage, earth or trash.

It shall be unlawful for any person to obstruct, break or injure in any manner any public sewer, or to obstruct, break or injure in any manner any catch basin or manhole, or to place any garbage, earth, trash or any other material of any kind in any catch basin or manhole. (Code 1963, Sec. 28-10)

Sec. 5-6-32 - Draining rain water into public sanitary sewers—nuisance declared.

The connection of any roof, down spout, yard or walkway drain or any other drain, except for existing driveway or existing footer drains, carrying rain water into any house service sewer connected with any public sanitary sewer or any other sewer leading into a public sanitary sewer in the city is detrimental to the public health, safety and welfare and is hereby declared a public nuisance. (Code 1963, Sec. 28-10.1)

Sec. 5-6-33 - Same—prohibited; compliance with notice to disconnect.

(a) It shall be unlawful for any property owner to connect or cause to be connected any roof, down spout, yard or walkway drain or any other drain carrying rain water into any house service sewer connected with any public sanitary sewer, or any sewer leading into any public sanitary sewer in the city.

(b) Except when section 5-6-36 applies, it shall be unlawful for any property owner to fail, within 14 days from the receipt of the written notice prescribed for in section 5-6-35, to disconnect or cause to be disconnected any roof, down spout, yard or walkway drain or any other drain, except for an existing driveway drain or existing footer drain, carrying rain water into any house service sewer connected with any public sanitary sewer or any sewer leading into any public sanitary sewer in the city. (Code 1963, Sec. 28-11)

Sec. 5-6-34 - Same—penalty for violation of section 5-6-33.

Any person violating section 5-6-33 shall, upon conviction thereof, be punished by a fine not to exceed $25. (Code 1963, Sec. 28-11.1)

Sec. 5-6-35 - Same—disconnection by city; costs to constitute lien.

Whenever the property owner fails to disconnect or cause to be disconnected any rain water drainage connection, except for any existing driveway drain, or existing footer drain, with any public sanitary sewer or any other sewer leading into a public sanitary sewer in the city within 14 days from the receipt of written notice from the city manager to disconnect such rain water drainage connection, the city manager is hereby authorized to cause the connection to be disconnected. The cost for the disconnection by the city shall be computed thereafter, charged to the property owner, and a bill for the costs shall be prepared by the department of finance and mailed to the owner at his last known post office address within a reasonable time after the disconnection. In the event the city does not receive payment of the bill within 30 days after mailing, a duplicate statement of the bill shall be forwarded to the director of finance, who shall see that the costs are charged to the owner and collected in the same manner as city taxes. Every such cost shall constitute a lien against the real estate from which such rain water connection was disconnected, the lien to continue until actual payment of the cost shall have been made to the city. (Code 1963, Sec. 28-12)

Sec. 5-6-36 - Same—same; exceptions for connections existing on November 28, 1972, upon finding of hardship.

Whenever the city manager finds that a disconnection would constitute a financial hardship to an owner, the city manager shall direct that the disconnection be done by or for the city at the expense of the city. This exception shall apply only to connections in existence in the city on November 28, 1972. (Code 1963, Sec. 28-12.1)

Sec. 5-6-37 - Air conditioning and refrigeration equipment discharging water—definition of "air conditioning" and "refrigeration."

For the purpose and within the meaning of sections 5-6-38 and 5-6-39 of this code, the following definitions shall apply:

(1) *Air conditioning.* The cooling or dehumidification, or both, of space used for human occupancy.

(2) *Refrigeration.* The artificial production of cold for the purpose of preservation of food products, process work and maintenance of storage temperature. (Code 1963, Sec. 28-13)

Sec. 5-6-38 - Same—rate of water discharge.

It shall be unlawful for any person to discharge or allow to be discharged into the sanitary sewers of the city or connections thereto, either directly or indirectly, water from any air-conditioning or refrigeration equipment at a rate in excess of 10 gallons per hour per rated ton of air conditioning or refrigeration in the aggregate. (Code 1963, Sec. 28-14)

Sec. 5-6-39 - Same—permit required for installation.

It shall be unlawful for any person to install or cause to be installed any air-conditioning or refrigeration equipment which discharges, or is capable of discharging, water without first complying with the appropriate provisions of title 8, chapter 1 of this code, relating to plumbing and gas fitting, and obtaining the permit therein required. (Code 1963, Sec. 28-15)

Sec. 5-6-40 - Same—VPDES permit requirements.

(a) Notwithstanding any contrary provision of this code, it shall be unlawful for any person, after May 16, 1998 to:

(1) construct any new combined sewer, or any extension of a combined sewer, inside or outside of the combined sewer service area of the city, provided that this subsubsection (1) shall not prohibit the connection of new sanitary sewers constructed after May 16, 1998 to combined sewers within the combined sewer service area, so long as the owner of the property to be served by the new sanitary sewer demonstrates to the satisfaction of the director that the connection will not cause any combined sewer overflows during dry weather flow conditions; or

(2) connect any new inflow source other than sewage disposal permitted under subsubsection (1), including without limitation rain water drainage, sump pump discharge, or air conditioning or refrigeration condensate discharge, into a sanitary sewer which is tributary to the combined sewer system.

(b) A violation of this section shall constitute a class one civil violation. (Ord. No. 3998, 5/16/98, Sec. 1)

Secs. 5-6-41 through 5-6-50 - reserved.

DIVISION 2 - Sewage Disposal Systems

SUBDIVISION A

General

Cross References: Power of city with reference to sewage disposal system, see City Charter, Sec. 2.03, subsec. (u): toilets and basins in nursery schools, Title 12, Ch. 3; of this Code; toilet and lavatory facilities in foodhandling establishments, Title 11. Ch. 2.

Sec. 5-6-51 - Construction of terms.

The terms "install," "repair," "approved," and "standard," as used in this article shall be construed to mean in accordance with the specifications and standards established within this article. (Code 1963, Sec. 28-16)

Sec. 5-6-52 - Approved method of disposal of human excrement required.

It shall be unlawful for the owner of any house used as a human habitation or other place where human beings congregate or are employed in the city to use or occupy, or to rent or lease the same for the use of occupancy by any person, unless and until the house or building shall have been supplied or

equipped with an approved method of disposal of human excrement of such construction as will comply with the requirements hereinafter designated. "An approved method of disposal of human excrement" shall be deemed to be either:

(1) a properly installed flush toilet connected to a public or approved private sewer;
(2) a flush toilet connected to an approved properly installed septic tank system; or
(3) a flush toilet connected to an approved sewage disposal plant, publicly or privately owned. (Code 1963, Sec. 28-17)

Sec. 5-6-53 - Approval of plans for sewer system, sewage disposal system and water system in new subdivision or housing developments.

It shall be unlawful for any person to start any new subdivision or housing development before furnishing, in triplicate, plans and specifications of the sewer system or sewage disposal system to be used, together with plans for the anticipated water system to be used in the structures. These plans and specifications must be approved by the director of public health or his agent before construction is started. (Code 1963, Sec. 28-18)

Sec. 5-6-54 - Compliance with article; injunction.

It shall be unlawful for any person to fail, neglect or refuse to comply with any provisions of this article. Any person violating any provision of this article may be enjoined from proceeding with the installation of or operation of any disposal system until the person shall comply with the provisions of this article. (Code 1963, Sec. 28-19)

Secs. 5-6-55 through 5-6-60 - reserved.

SUBDIVISION B

Septic Tank Systems

Cross Reference: Power of city as to septic tanks and dry closets, City Charter, Sec. 2.04, subsec. (h).

Sec. 5-6-61 - Permit for installation or repair.

(a) It shall be unlawful for any person to install or repair any septic tank system in the city except upon a permit as provided in this section.
(b) It shall be unlawful for any person to install or repair, have installed or repaired, allow to be installed or repaired or contract to install or repair a septic tank system for another person without first making application to the director of public health for a septic tank permit on application forms furnished by the director of public health. The application form shall contain clearly a description, location and dimensions of the land or lot on which the septic tank, distribution box and sewer piping are to be installed, the dimensions of the subsurface disposal field, the type of land, such as loam, sandy loam, clay, gravel, etc., the direction in which the land drains in relation to reservoirs, springs and wells, and be accompanied by a plat of the land when required, showing the location of dwelling house and all other buildings, and the plans and specifications of the whole septic tank system intended to be installed or repaired. Upon approval of such application, the director of public health shall issue a permit to the applicant for the installation of a septic tank system in accordance with the plans and specifications furnished. If the plans are not approved, but the size and location of the lot and type of soil are suitable for a septic tank system, properly planned, the director of public health shall clearly outline proper plans for the same and grant the permit only according to the plans so outlined by him. (Code 1963, Sec. 28-20)

Sec. 5-6-62 - Specifications.

(a) *Generally.* All septic tank systems installed or repaired in the city shall consist of sewer line from building to tank, septic tank, distribution box and drain tile disposal field. The sewer line shall be of cast-iron soil pipe, unless otherwise specified by the plumbing inspector. The entire system shall be built in accordance with the plans and specifications shown on the permit required.

(b) *Excavations.* All excavations and trenches shall be of sufficient dimensions to permit sewers, tanks and other structures of the size shown, specified to be properly placed therein, according to the plans and specifications as required by this regulation, and to permit the removal of any obstructing material within the disposal field.

(c) *Re-excavations and the filling and refilling of trenches.*

(1) Where unsuitable foundation is encountered at the depth of any excavation shown on the drawing or specified by the director of public health, further excavation and refilling the excavated spots with such foundation material as may be directed by film, is hereby required.

(2) A representative of the health department shall inspect septic tank construction after completion and before any part of the system shall be covered. Septic tank systems shall be back-filled immediately after inspection and approval by the director of public health and care shall be taken not to disturb the pipe, grades, joints or alignment by the backfilling, or otherwise.

(d) *Pipes and jointing materials; size and types of house sewer.*

(1) The house sewer for individual homes shall be constructed of four (4) inch or larger cast-iron pipe or equivalent.

(2) All house sewer pipes shall be laid complete with all jointing materials. All house sewer cast-iron pipe shall be jointed with lead and oakum or similar jointing material, and shall be approved by the plumbing inspector.

(3) All house sewer pipe shall be laid accurately and shall have a grade of not less than one-fourth (¼) of an inch to the foot, or as otherwise specified by the director of public health, and approximately 30 inches from the outside of the house there shall be a standard cast-iron cleanout tie with screw cover, and all right angle bends in the house sewer shall be made with long sweep soil pipe ells. Where septic tanks are located more than 35 feet from the above cleanout, then additional cleanouts are to be provided.

(e) *Location, design, liquid capacity and material required in septic tank disposal systems.*

(1) Location and installation of the sewage disposal system and each part thereof shall be such that, with reasonable maintenance, it will function in a sanitary manner and will not create a nuisance nor endanger the safety of any domestic water supply. In determining a suitable location for the system consideration shall be given to the size and shape of the lot, slope of natural and finished grade, depth of ground water table, proximity to existing or future water supplies, and possible expansion of the system.

a. No part of the system shall be located so that it is nearer to any water supply than 50 feet, or so that surface drainage from its location may reach any domestic water supply.

b. The lot size shall be sufficient to permit proper location, installation and operation. The disposal field shall be located at least 10 feet from property line.

c. Installations in low swampy area or areas with a high water table or which may be subject to flooding are prohibited.

(2) Type of system shall be determined on a basis of location permeability and ground water level.

a. The system shall be designed to receive all sanitary sewage from the dwelling.

b. Basement floors, footings or roof drainage shall not enter any part of the septic tank system.

(3) Design of the septic tank shall be rectangular in shape and the length shall not be less than twice nor more than three (3) times the width. The liquid depth shall be not less than four (4) feet and the freeboard or airspace shall not be less than one (1) foot.

(4) Liquid capacity of all septic tanks shall be based upon the number of bedrooms contemplated in the building served and shall conform to Table I, herein shown.

TABLE I. CAPACITY OF SEPTIC TANK

Potential	Minimum	Minimum Dimensions of Septic			
Capacity of Home No. of Bedrooms	Capacity of Septic Tanks Gallons	A Length	B Width	C Air Space	D Liquid Depth
3 or less	720	7′0″	3′6″	1′0″	4′0″
4	1000	8′0″	4′0″	1′0″	4′0″
5	1250	9′0″	4′6″	1′0″	4′3″
6	1480	9′6″	4′8″	1′3″	4′6″
7	1720	10′0″	5′0″	1′3″	4′8″

(5) Construction of the septic tank shall be such as to assure its being watertight and prevent the entrance of rain water or surface drainage.

a. The tank shall be constructed of sound and durable material not subject to excessive corrosion or decay.

b. Adequate access to each compartment of the tank for inspection and sludge removal, shall be provided by a manhole or removable cover.

1. Where the top of the tank is located more than 18 inches below the surface of the ground, manholes shall be built up to within 12 to 18 inches of the surface.

c. Inlet and outlet connections shall be submerged or baffled to assure the least possible disturbances in the tank.

1. The inlet pipe or baffle shall extend approximately six (6) inches above the water surface and the outlet shall extend approximately two (2) feet below and six (6) inches above the water surface.

2. Venting of the tank shall be provided through the inlet and main building stack and shall be approved by the plumbing inspector. The outlet shall be similarly vented to provide proper ventilation of the disposal field or seepage pits back into the septic tank and thence through the main building stack.

d. Septic tanks shall be poured-in-place concrete, or precast concrete, or brick wall, or cinder block wall, or properly coated metal.

1. Concrete septic tanks, poured in place, shall be poured with a standard concrete mixture of 1-2-3 or 1-24 mix. Where the excavation is subject to caving, or where the water table is objectionably high, outside forms and pumping will be required in order to assure a water-tight tank. The walls, top and bottom of the tank are to be not less than four (4) feet thick, as shown on plans; top and manhole cover to be reinforced with reinforcing steel, as shown on plans.

2.i. Precast concrete tanks shall be of a design and size as stated in specifications submitted in accordance with section 5-6-61 of this code, and made with a standard 1-2-3 mixture. The walls shall not be less than two and one-fourth (2¼) inches in thickness, reinforced with No. 9 steel placed as shown in specifications submitted in accordance with section 5-6-61 of this code.

ii. The precast tank may be made in two (2) sections or more with a horizontal half lap joint, cement grounded. The bottom or top and a portion of the side walls shall be poured monolithically.

3. Where metal septic tanks are used, they are to be of the same design and with the same fittings as required for concrete tanks, provided they are constructed of a material of sufficient thickness and properly coated to prevent rusting.

(f) *Subsurface disposal field.*

(1) Location of the disposal field should be in an unobstructed and unshaded area, and the distances given shall be the minimum which the disposal field can be located from the following: ;$;

a. Any water supply (except as noted below) .....50 feet

b. Streams .....25 feet

c. Dwellings .....10 feet

d. Large trees .....10 feet

e. Property lines .....10 feet ;

f. When existing wells are involved or exceptionally coarse soil formations are encountered, the 50 foot distance from any water supply shall be increased in accordance with the recommendations of the health department.

(2) Distribution box of sufficient size to accommodate the necessary field lateral lines shall be constructed at the head of each disposal field.

a. Each field lateral line shall be connected separately to the distribution box and shall not be subdivided.

b. The invert of all outlets shall be level and the inlet invert shall be at least one (1) inch above the outlets.

(3) Minimum seepage area (total flat bottom of trenches) of the disposal field shall be determined by one of the following methods:

a. Recommendation of the health department, based upon experience data, in which case requirements should be stated on a basis of square feet of absorptive area per bedroom rather than lineal feet of tile.

b. Results of actual percolation tests conducted on the site of proposed disposal field. The tests shall be made by the owner and under the direct supervision of the health department and in the following manner:

1. Number of test holes. When a septic tank disposal field is to be constructed for a single dwelling unit with two (2) bedrooms or less, a minimum of two (2) test holes shall be used. One (1) additional hole shall be provided for each additional bedroom to be served. When installations are planned for

multiple units or buildings not used as dwellings at least one (1) test hole shall be provided for each 400 square feet of area of the proposed disposal field site.

2. Location of test holes. The test holes shall be located on the site selected for the disposal field in a manner to be representative of the area under consideration. Tests shall not be made in filled ground unless it has been compacted for several years. All necessary surface drainage shall be completed before any percolation tests are made.
3. Preparation of test holes. The holes shall be six (6) inches to 12 inches in size and may be either circular or square and shall be dug to the depth of the proposed disposal field trench. A fixed reference point shall be provided in each test hole to permit accurate measurements of water levels. A layer of sand or fine gravel one (1) to two (2) inches thick shall be placed in the bottom of each test hole before any water is placed in the hole. Earth shall be mounded around tops of holes to prevent entrance of surface water and suitable covers shall be placed over them when holes are left unattended.
4. Conducting tests. First place water in hole to depth of at least 12 inches and allow to seep away. Proceed with test by filling hole to a depth of six (6) inches and record time required for the water to seep away. Then compute the average time required for the water level to lower one (1) inch. If water does not disappear from hole within six (6) hours, no further observations are necessary.
5. Determination of absorptive area from results of percolation tests.

Average Time in Minutes for Water Level to Lower One Inch	Effective Absorption Area (Area in bottom of disposal trench) In Square Feet Per Bedroom or Per 100 Gal. Per Day of Estimated Water Use.
10 minutes or less	130
11-20 minutes	170
21-30 minutes	210
31-40 minutes	250
41-50 minutes	290
51-60 minutes	330
Over 60 minutes	Unsuitable for subsurface drainage

Minimum installation shall be for a two (2) bedroom house.

(4) Construction shall be in accordance with recommendations of the health department.

a. All trenches in a disposal field shall be the and length, and the following same width standards shall be required.

1. Minimum number of lines per field, two (2).
2. Maximum length of individual lines, 100 feet.
3. Minimum bottom width of trench, 18 inches.
4. Maximum depth of cover of tile lines, 24 inches.
5. Preferred depth of cover of tile lines, 16 inches.
6. Grade of tile lines, 2" to 4" per 100 ft.
7. Spacing of trenches, at least six (6) feet apart.
8. Minimum filter material under tile, six (6) inches.
9. Minimum filter material over tile, two (2) inches.

b. Pipe used for the lines between the septic tank and distribution box, on all lines within 10 feet of dwelling, under paved areas and on all main laterals from distribution box in fields constructed on sloping ground, shall be bell and spigot type of vitrified clay or concrete with watertight joints. Pipe used under driveways or other areas subject to heavy loads shall be bell and spigot cast iron with leaded joints. The sections laid in the disposal field shall not be considered in determining the effective absorption area.

c. Field tile used in the disposal field shall be not less than four (4) inches in diameter and shall be laid with one-fourth (¼) of an inch open joints.

1. All open joints shall be protected, on top, by strips of asphalt-treated building paper at least ten (10) inches long and three (3) to six (6) inches wide.
2. All bends used in the disposal field shall have one (1) tight joint at each end of the bend.

d. Filter material shall be hard and durable, of crushed stone, gravel, slag, screened cinder or similar material having sufficient voids and shall be acceptable to the health department of the city. Such material may vary from one-fourth (¼) of an inch to three (3) inches size.

e. Grade boards, securely staked in the bottom of the trench, shall be provided for all lines except where bell and spigot pipe is used. The grade boards shall be one (1) inch by four (4) inches and nailed to stakes in center of the trench as shown on the plans, or grade stakes at intervals of not more than five (5) feet. The grade boards shall be given a grade of from two (2) inches to four (4) inches per 100 feet. (Code 1963, Sec. 28-21)

Sec. 5-6-63 - Inspection.

If, upon any inspection the director of public health or his authorized agent shall find any violation of this division or the provisions of the permit issued under it, he shall direct the person to whom the permit was issued by written notice to make the necessary corrections within such reasonable time as shall be specified therein. (Code 1963, Sec. 28-22)

Sec. 5-6-64 - Cleaning septic tanks; disposition of sludge.

(a) No person shall engage in the business of cleaning septic tanks unless and until the equipment to be used by such person in connection with the operation of such business complies with this section and has been inspected and approved in writing by the health department.

(b) The tank into which the septic tank sludge is pumped or delivered and carried shall be fully enclosed and watertight. All inlets and outlets to the tank shall be fully enclosed and provided with watertight valves. Suction and discharge hose shall be watertight and provision shall be made for carrying such

hose in a manner that will prevent any leakage therefrom. All exposed surfaces shall be painted and maintained in a sanitary condition by frequent washings. The name and address of the person owning or operating the equipment shall be painted thereon in letters at least four (4) inches high.

(c) It shall be unlawful to dispose of the sludge and other material removed from septic tanks except by depositing it under the surface of the ground in such manner that it will not be exposed to the atmosphere or endanger the source of domestic water supplies, or by depositing it into a public sewerage system or sewage treatment plant, at such designated locations and under such conditions as may be promulgated by the owners or operators thereof. In any event the sludge or other material shall be carefully deposited and the surface of the ground, manholes, tanks, etc. into which the deposit is made, shall be maintained in a sanitary condition. Any covering of such surfaces with sludge or other, material shall be promptly and completely removed. (Code 1963, Sec. 28-23)

Secs. 5-6-65 through 5-6-70 - reserved.

DIVISION 3 - Discharges into Sewer Collection System and POTW

Editorial Note: Ord. No. 3504, § 1, adopted March 16, 1991, repealed Tit. 5, Ch. 6, Art. B, Div. 3, §§ 5-6-71—5-6-77, 5-6-80—5-6-83, 5-6-90—5-6-99, which pertained to discharges into the sewage disposal system and POTW and derived from Ord. No. 3334, § 2, adopted Oct. 15, 1988. Section 2 of said Ord. No. 3504 added new provisions designated as Tit. 5, Ch. 6, Art. B, Div. 3, §§ 5-6-71—5-6-78, 5-6-80—5-6-82, 5-6-90—5-6-104 to read as herein set out. See the Ordinance Comparative Table for a detailed analysis of inclusion of Ord. No. 3504. Subsequently, Ord. No. 3661, § 1, adopted Sept. 18, 1993, amended Div. 3, in its entirety, to read as herein set out. Subsequently, Ord. No. 4-35, § 1, adopted March 23, 1999, repealed Div. 3, in its entirety. See the Ordinance Comparative Table.

Secs. 5-6-71—5-6-100 - reserved.

DIVISION 3.1 - Discharges into POTW

Editorial Note: Ord. No. 4035, § 2, adopted March 23, 1999, added Div. 3.1 , §§ 5-6-101 —5-6-223, to read as herein set out. Subsequently, Ord. No. 4501, § 1, adopted October 13, 2007, amended Div. 3.1 , in its entirety, to read as herein set out. See also the Ordinance Comparative Table.

SUBDIVISION A - General Provisions

Sec. 5-6-101 - Purpose and policy.

This division sets forth uniform requirements for users of the Alexandria Sanitation Authority's publicly owned treatment works ("POTW") and the sewer system which carries wastewater to the POTW, and enables the Sanitation Authority to comply with all applicable federal and state laws, including but not limited to the Clean Water Act (33 U.S.C. § 1251 et seq.) and the general pretreatment regulations promulgated by the United States Environmental Protection Agency (40 C.F.R. Part 403). The objectives of this division are:

(1) To prevent the introduction of pollutants into the POTW that will interfere with its operation;

(2) To prevent the introduction of pollutants into the POTW that will pass through the POTW inadequately treated into receiving waters or will otherwise be incompatible with the POTW;

(3) To protect the general public and POTW personnel who may be affected by wastewater and sludge;

(4) To provide for the imposition of fees for the equitable distribution of the costs of operation, maintenance and improvement of the POTW and of other activities of the Alexandria Sanitation Authority under this division; and

(5) To enable the Alexandria Sanitation Authority to comply with its National Pollutant Discharge Elimination System permit conditions, sludge use and disposal requirements, and all other federal and state laws which apply to the operation of the POTW.

This division shall apply to all users of the POTW. This division authorizes the authority to issue wastewater discharge permits, to engage in monitoring, compliance and enforcement activities, to establish administrative review procedures, to require user reporting, and to set fees which equitably distribute the costs of its activities under this division. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-102 - Definitions.

For the purposes of this division, the following words and phrases shall have the meanings given below, except in those instances when the context clearly indicates a different meaning.

(a) *Act* or *"the Act".* The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. Section 1251 et seq.

(b) *Administrator.* The Administrator of the United States Environmental Protection Agency or those acting on his behalf.

(c) *Approval authority.* The Director of the Virginia Department of Environmental Quality.

(d) *Authority.* The City of Alexandria, Virginia, Sanitation Authority.

(e) *Authorized representative of the user.* A duly authorized representative of the individual or entity identified in paragraphs (1), (2), (3) or (4) below, if such representative is responsible for the overall operation of the facility from which the discharge originates. The authorization must be submitted to the authority in writing and must name the representative and the position he occupies. Whenever such authorization is no longer accurate, a new authorization must be submitted to the authority at least two weeks prior to submission of any reports signed by the authorized representative. An authorized representative shall be:

(1) if the user is a corporation:

(a) the president, secretary, treasurer or a vice-president of the corporation who is in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(b) the manager of one or more manufacturing, production or operation facilities provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty or making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

(2) if the user is a partnership, a general partner of the partnership;

(3) if the user is a sole proprietorship, the proprietor; or

(4) if the user is a federal, state or local governmental facility, a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or such person's designee.

The individuals described in subsubsections (1) through (4) above may designate another authorized representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the user, and the written authorization is submitted to the authority at least two weeks prior to any reports being signed by the new designee.

(f) *Best management practices* or *BMP* means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices or procedures of users to prevent or reduce the discharge of pollutants, listed in section 5-6-11, into the POTW. Such practices may include, but are not restricted to, notification plans of any accidental discharge, solvent and toxic organic management plans, operating procedures, practices to control batch discharges, sludge and waste disposals, spillage or leaks, or drainage from raw material storage, and practices for pollution prevention control.

(g) *City.* The City of Alexandria.

(h) *Control authority.* The City of Alexandria, Virginia, Sanitation Authority.

(i) *Conventional pollutants.* BOD, TSS, fecal coliform, oil and grease, and pH.

(j) *Daily maximum limit* or *daily maximum.* The maximum allowable discharge of pollutant during a calendar day. Where daily maximum limitations are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where daily maximum limitations are expressed in terms of concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.

(k) *Director.* The director of the department of transportation and environmental services of the city.

(l) *Discharge* or *indirect discharge.* The introduction of pollutants or wastewater containing pollutants into the POTW.

(m) *Engineer.* The engineer-director of the authority or another employee of the authority who has been duly authorized to act on the engineer-director's behalf or duly delegated the engineer director's authority.

(n) *Improperly shredded garbage.* The wastes from the preparation, cooking, eating, handling, dispensing, sale or storage of food that have not been shredded to such a degree that all particles are less than a half an inch (1.27 centimeters) in any dimension and will be carried freely under the flow conditions normally prevailing in public sewers.

(o) *Instantaneous limit.* The maximum concentration of a pollutant allowed to be discharged at any time, determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.

(p) *Interference.* A discharge which, alone or in conjunction with a discharge or discharges from other sources:

(1) inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, or the use or disposal of its sludge;

(2) is a cause of a violation of any requirement of the authority's NPDES permit, including an increase in the magnitude or duration of a violation; or

(3) prevents the use or disposal of sludge at the POTW from complying with any provisions of federal, state or local law, including but not limited to section 405 of the Clean Water Act, the Solid Waste Disposal Act ("SWDA") (42 U.S.C.3251 et seq.), including title II which is more commonly referred to as

the Resource Conservation and Recovery Act ("RCRA")(42 U.S.C.6901 et seq.), state regulations contained in any state sludge management plan prepared pursuant to subtitle D of the SWDA, the Clean Air Act and the Marine Protection, Research and Sanctuaries Act (33 U.S.C.1420 et seq.).

(q) *Medical waste.* Isolation waste, infectious agents, human blood and blood products, pathological wastes, sharps, body parts, contaminated bedding, surgical waste, potentially contaminated laboratory waste or dialysis waste which have been generated in the diagnosis, treatment or immunization of human beings or animals, in research pertaining thereto, or in the production or testing of biologicals, and any other medical wastes as specified in the Virginia Medical Waste Management Regulations, 9 VAC20-120. The term does not include any household waste identified in 40 C.F.R.261.4(b)(l).

(r) *National categorical pretreatment standards* or *categorical standards.* Any regulation containing pollutant discharge limits, promulgated by the United States Environmental Protection Agency pursuant to sections 307(b) and (c) of the Clean Water Act (33 U.S.C Section 1317), which apply to a specific category of users which appear in 40 C.F.R., Chapter I, Subchapter N, Parts 405 through 471. All such standards are included in this division as if fully set forth herein.

(s) *National Pollutant Discharge Elimination System permit* or *NPDES permit.* A permit issued pursuant to Section 402 of the Clean Water Act.

(t) *New source.*

(1) Any building, structure, facility or installation from which there is or may be a discharge, the construction of which commences after the publication in the Federal Register of proposed pretreatment standards under the Clean Water Act that would be applicable to the source if such standards were thereafter promulgated, provided that:

(i) the building, structure, facility or installation is constructed at a site where no other source of pollutant discharges is located; or

(ii) the building, structure, facility or installation totally replaces the process or production equipment that causes the discharge from an existing source; or

(iii) the production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site.

In determining whether this "substantially independent" criterion is met, factors such as the extent to which the new facility is integrated with the existing plant and is engaged in the same general type of activity as the existing source shall be considered.

(2) Construction at a site at which an existing source of pollutant discharges is located results in a modification of the existing source, rather than a new source, if the construction does not create a new building, structure, facility or installation meeting the criteria of subsubsection (1) above, but otherwise alters, replaces or adds to existing process or production equipment.

(3) Construction of a new source has commenced if the owner or operator has:

(i) begun, or caused to begin, as part of a continuous on-site construction program, any replacement, assembly or installation of facilities or equipment, or any significant site preparation work, including excavation work or clearing or removal of existing buildings or structures;

(ii) entered into binding contractual obligations for the purchase of facilities or equipment which are intended to be used in the operation of the new source within a reasonable time; provided, that options to purchase, contracts which may be terminated or modified without substantial loss, and

contracts for feasibility, engineering or design studies shall not constitute a contractual obligation under this subsubsection.

(u) *Noncontact cooling water.* Water used solely for cooling purposes which does not come in contact with any other discharge until it is discharged into the collection system or the POTW, and which does not exceed the pretreatment standards.

(v) *Pass through.* Any discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit, including an increase in the magnitude or duration of a violation.

(w) *Permittee.* A holder of a wastewater discharge permit issued by the authority.

(x) *pH.* The logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.

(y) *Photographic processing facility.* A facility which processes images from silver sensitized films and papers, including, but not limited to commercial photographic and film processing facilities, in-house photographic processing facilities, mini-labs, printers, and x-ray and other medical, dental, industrial, institutional or diagnostic facilities which produce a silver rich solution.

(z) *Pollutant.* Any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, medical wastes, chemical wastes, industrial wastes, biological materials, radioactive materials, rock, sand, municipal wastes, and agricultural wastes.

(aa) *POTW* or *publicly owned treatment works.* The wastewater treatment plant operated by the authority, along with the pump stations and sewers which deliver wastewater to the plant.

(bb) *Pretreatment.* The reduction of the amount of pollutants to a less harmful state, or the elimination of pollutant properties in wastewater, prior to or in lieu of the discharge of the pollutants into the POTW. This reduction or elimination may be obtained by physical, chemical or biological processes or other means; it may not be obtained by dilution of the concentration of the pollutants, unless allowed by an applicable pretreatment standard, or by other means which are prohibited by 40 C.F.R.403.6(d).

(cc) *Pretreatment requirements.* Any substantive or procedural requirement related to pretreatment imposed on a user, other than a pretreatment standard.

(dd) *Pretreatment standards* or *standards.* Federal, state or local standards which prohibit certain pollutants from appearing in discharges or which limit the quantity or concentration of certain pollutants which may appear in discharges, including national categorical pretreatment standards promulgated by the United States Environmental Protection Agency.

(ee) *Prohibited discharge.* Any discharge containing a pollutant which is prohibited from entering the POTW.

(ff) *Sewer connection permit.* A permit issued pursuant to section 5-6-25 of this article.

(gg) *Silver CMP.* The Code of Management Practice for Silver Dischargers, issued by the Silver Council and the Association of Metropolitan Sewage Agencies, dated September 1995, as amended from time to time, which provides recommendations on technology, equipment and management practices for controlling silver discharges from facilities that process photographic materials. (A copy of the Silver CMP shall be obtainable from the authority.)

(hh) *Silver recovery.* The process of removing silver from silver rich solutions.

(ii) *Silver rich solution.* A solution containing sufficient silver such that cost-effective silver recovery can be done either on-site or off-site. In photographic processing facilities, such solutions include, but are not limited to, fix and bleach-fix solutions, stabilizers, low replenished (low-flow) washes, and all

functionally similar solutions, but do not include low silver solutions such as used developers, bleaches, stop baths, pre-bleaches, stabilizers following washes and wash waters.

(jj) *Slug discharge.* Any discharge which, because of the concentration of pollutants or the quantity of flow, could cause a violation of a standard for prohibited discharges.

(kk) *User.* Any person or entity which is the source of a discharge.

(ll) *User, industrial.* Any person or entity which is a non-residential source of a discharge.

(mm) *User, significant industrial:*

(1) *Categorical.* Any industrial user subject to the national categorical pretreatment standards in 40 C.F.R.403.6 and 40 C.F.R. Parts 405 through 471; and

(2) *Noncategorical.* Any other industrial user that discharges an average of 25,000 or more gallons per day of process wastewater to the POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater), contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the POTW's treatment capacity, or is designated a significant industrial user in accordance with 40 C.F.R. section 403.8(f)(g), on the basis that the industrial user has a reasonable potential to adversely affect the POTW's operation or to violate any national categorical pretreatment standard or requirement.

(3) The authority may determine that the industrial user subject to categorical pretreatment standards is a non-significant categorical industrial user rather than a significant industrial user on a finding that the industrial user never discharged more than 100 gallons per day (gpd) of total categorical wastewater) excluding sanitary, non-contact cooling and boiler blow-down wastewater, unless specifically included in the pretreatment standard) and the following conditions are met:

(a) The industrial user, prior to engineer's finding, has consistently complied with all applicable categorical pretreatment standards and requirements;

(b) The industrial user annually submits the certification statement required by 40 CFR 403.12(q), together with any additional information necessary to support the certification statement; and

(c) The industrial user never discharges any untreated concentrated wastewater.

(4) Upon a finding that a user meeting the criteria in (mm)(2) of this section has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the engineer may determine that the user should not be considered a significant user in accordance with procedures in 40 CFR 403.8(f)(6).

(nn) *Wastewater.* Liquid and water-carried wastes containing any pollutants whether treated or untreated, which are discharged from any source into a POTW. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-103 - Administration.

Except as otherwise expressly provided in this division, the director is authorized to administer and enforce the provisions of this division, and is further authorized to delegate all or part of his authority to the engineer, who is authorized to redelegate his authority to another employee of the authority who has been authorized to act on the engineer's behalf. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-104 - Promulgation of procedures.

The authority is hereby authorized to establish rules and promulgate procedures that it deems necessary to implement the provisions of this division, including but not limited to the development of a compliance schedule for industrial users, the installation of pretreatment technology required to meet applicable pretreatment standards and requirements and to meet the requirements imposed by accidental spill and slug control plans or best management practices. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-105 through 5-6-110. - reserved.

SUBDIVISION B - General User Requirements

Sec. 5-6-111 - Prohibited discharges.

(a) No user shall discharge or cause to be discharged into or the POTW any of the following substances, materials, waters or wastes:

(1) any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas, which creates a fire or explosion hazard in the collection system or POTW, including but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit (60 degrees Celsius) using methods specified in 40 C.F.R. 261.21;

(2) any petroleum oil, non biodegradable cutting oil or products of mineral oil origin in amounts that will cause interference or pass through;

(3) any water or waste containing toxic or poisonous solids, liquids or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, to constitute a hazard to humans or animals, to create a public nuisance or to create any hazard in the receiving waters of the collection system or the POTW, including but not limited to cyanides, chromium, copper, zinc, silver, lead, nickel, arsenic, mercury, cadmium and phenols;

(4) any water or waste having a pH of less than 6.0 or more than 11.0 standard units or having any corrosive property capable of causing damage or hazard to structures, equipment or personnel of the city, the collection system or the POTW;

(5) any solid or viscous substance capable of causing obstruction to the flow in the collection system or the POTW or interference with the proper operation of the collection system or the POTW, including but not limited to improperly shredded garbage, ashes, cinders, sand, mud, straw, wood or paunch manure;

(6) any liquid or vapor having a temperature higher than 140 degrees Fahrenheit (60 degrees Celsius) or, at the point of intake to the POTW, having a temperature higher than 104 degrees Fahrenheit (40 degrees Celsius);

(7) any waters or wastes containing fats, wax, grease or oils of animal or vegetable origin in concentrations greater than 100 mg/l as an instantaneous maximum or containing substances which may solidify or become viscous at temperatures between 32 degrees Fahrenheit and 140 degrees Fahrenheit;

(8) any radioactive substance of such half-life or concentration as may exceed safe limits as established by federal or state regulations;

(9) any odor- or color-producing substance exceeding concentrations which may be established by the authority for the purpose of meeting NPDES permit conditions;

(10) any quantity of flow or concentration, or both, which constitutes a slug discharge, and any pollutant, including any conventional pollutant, released in a discharge at a flow rate or pollutant concentration, or both, which will cause interference with the POTW;

(11) any substance from a septic tank, a truck or a portable vessel or device without prior written permission from the authority;

(12) used motor oil in any amount;

(13) any product containing used or otherwise contaminated antifreeze (ethylene glycol);

(14)

any medical waste, except as specifically authorized by the engineer in a wastewater discharge permit;

(15) any hazardous waste, as defined in the Resource Conservation and Recovery Act, which is not covered by the domestic sewage exemption contained in 40 C.F.R. 261.4(a)(1)(ii);

(16) any substance, material, water or waste which the engineer determines to be or to contain a pollutant which will pass through or cause interference with the operation or performance of the POTW or will contaminate the resulting sludge; and

(17) any silver rich solutions from a photographic processing facility, unless such silver rich solution is managed by the photographic processing facility in accordance with the Silver CMP, prior to its introduction into the POTW.

(b) No user shall make or cause to be made any of the following discharges:

(1) any discharge which causes interference;

(2) any discharge which constitutes a pass through;

(3) any discharge without a permit required by this division;

(4) any discharge which violates national categorical pretreatment standards;

(5) any discharge which constitutes or results in a violation of any permit term or condition;

(6) any discharge which violates local limit pretreatment standards established by the authority under section 5-6-113 and in accordance with 40 C.F.R. 403.5(c)(1); and

(7) any discharge of groundwater, stormwater, surface water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, noncontact cooling water and unpolluted wastewater into the collection system or the POTW without written approval of the authority, except for those circumstances covered by sections 5-6-32 through 5-6-39.

(c) Dilution of waste streams to meet the requirements of this section is prohibited.

(d) Substances, materials, waters or wastes prohibited by this section shall not be processed or stored in such a manner that they could be discharged into the collection system or the POTW. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-112 - National categorical pretreatment standards.

(a) Where a categorical pretreatment standard is expressed only in terms of the mass or the concentration of a pollutant in wastewater, the engineer may impose equivalent concentration or mass limits in accordance with 40 C.F.R. 403.6(c).

(b) Where wastewater subject to a categorical pretreatment standard is mixed with wastewater not regulated by the same standard, the engineer shall impose an alternate limit using the combined waste stream formula in 40 C.F.R. 403.6(e).

(c) A user may obtain from the engineer a variance from a categorical pretreatment standard if the user can prove, pursuant to the provisions in 40 C.F.R. 403.13, that the factors relating to its discharge are fundamentally different from the factors considered by the United States Environmental Protection Agency when developing the categorical standard.

(d) A user may obtain from the engineer a net gross adjustment to a categorical pretreatment standard in accordance with 40 C.F.R. 403.15. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-113 - Local limits.

(a) The authority may establish, by regulation, maximum mass or concentration discharge limits for any pollutant that threatens the public health, presents an endangerment to the environment, interferes with the operation of the POTW or causes the authority to be in violation of its NPDES permit or any

state permit issued to regulate the treatment of wastewater or the treatment or application of sludge. Such limits shall be determined at the point where the user's wastewater is discharged to the collection system, except where the engineer determines that a limit may be applied at the end of process. All concentrations for metallic substances are for total metals unless otherwise indicated. Compliance with all parameters may be determined from a single grab sample. In addition, the authority shall impose the validly adopted local discharge limits of any political subdivision for those users whose discharges are tributary to a publicly owned treatment works of the subdivision, where the limits are applicable in the city pursuant to an agreement between the authority and the political subdivision.

(b) The authority may establish, by regulation or in discharge permits, standards or requirements for discharges which are necessary to ensure user compliance with section 5-6-111; provided, that no such standard or requirement may be less stringent than applicable federal standards and requirements. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-114 - Dilution.

No user shall increase the use of process water, or in any way dilute a discharge, in order to achieve compliance with a discharge limit, unless expressly authorized by an applicable pretreatment standard or requirement. The engineer may impose discharge limits that are based on the mass of pollutants upon users which are using dilution to meet applicable pretreatment standards or requirements, or when the imposition of such limits is otherwise appropriate. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-115 through 5-6-120. - reserved.

SUBDIVISION C - Pretreatment of Wastewater

Sec. 5-6-121 - Pretreatment facilities.

Users shall provide wastewater treatment as is necessary to comply with this division, and shall comply with all categorical pretreatment standards and local limits and with the prohibitions set out in section 5-6-111, within the time limitations specified by federal, state or local regulation or by the authority, whichever is more stringent. Any facilities necessary for compliance shall be provided, operated and maintained at the user's expense. Detailed plans describing such facilities and operating procedures shall be submitted to the authority for review, and must be approved by the authority before such facilities are constructed. The review of such plans and operating procedures shall in no way relieve the user from the responsibility of modifying any such facility to produce a discharge acceptable to the authority under the provisions of this division. The engineer may require a user to have a certified operator on staff to ensure proper operation and maintenance of the pretreatment facility. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-122 - Additional pretreatment measures.

(a) Whenever deemed necessary, the engineer may require users to restrict their discharge during peak flow periods, to discharge certain wastewater only into specific sewers, to relocate and/or consolidate points of discharge, to separate sewage waste streams from industrial waste streams, and to comply with such other conditions as are necessary to protect the POTW. In addition, the engineer shall determine the user's compliance with requirements of this division.

(b) The engineer may require any person discharging into the POTW to install and maintain on its property and at its expense, a suitable storage and flow-control facility to ensure equalization of flow. A wastewater discharge permit may be issued solely for flow equalization. (Ord. No. 4501, 10/13/07,

Sec. 1)

Sec. 5-6-123 - Grease, fat and oils removal systems.

(a) Grease, fat and oils removal systems shall be installed where the discharge of grease laden waste from food preparation or food processing, or from any other commercial establishment, into the POTW will cause an impediment or obstruction. A grease, fats and oils removal system, to be approved by the authority, shall consist of one or a combination of the following:

(1) passive technology which includes an approved in-ground grease trap and an approved grease interceptor; or

(2) active technology which includes a grease recovery device that has been approved by the authority and a solids transfer/grease recovery device that has been approved by the authority.

(b) Waste that does not contain fat, grease or oils and that otherwise does not require treatment shall not be discharged into a grease, fats and oils removal system. Wastewater from dishwasher machines and wastewater that exceeds 130 degrees Fahrenheit shall not be introduced into a grease removal system. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-124 - Passive system requirements.

(a) *Grease traps.* The size, type and location of each grease trap shall be approved by an official designated by the authority. Grease traps of pre-cast or poured in-place concrete shall be constructed of sound durable material, not be subjected to excessive corrosion or decay, and shall be water and gas tight.

(b) *Grease interceptor.* A grease interceptor shall be sized and engineered based upon the anticipated load and/or conditions of actual use. A grease interceptor shall receive grease laden waste discharge from major point sources. A floor drain shall not be considered a major point source.

(c) *Grease interceptor capacity.* A grease interceptor shall have the grease retention capacity for the flow rates indicated in Table 1 set forth below in subsection (d).

(d) *Rate of flow controls.* A grease interceptor shall be equipped to control the rate of flow as set forth in Table 1.

TABLE 1

Grease Interceptor Capacity, Sizing and Rating

Sizing Symbol	**4**	**7**	**10**	**15**	**20**	**25**	**30**	**35**	**50**	**75**
Flow Rate										
GPM	4	7	10	15	20	25	30	35	50	75
L/S	0.25	0.44	0.63	0.95	1.26	1.58	1.89	2.20	3.16	4.73
Retention Capacity										
Pound	8	14	20	30	40	50	60	70	100	150

Kilograms	3.6	6.4	9.1	13.6	18.2	22.7	27.3	31.8	45.4	68.2

(Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-125 - Active system requirements.

(a) *Grease recovery devices.* Grease recovery devices shall be permitted in lieu of grease interceptors or grease traps in accordance with the following requirements:

(1) *Location.* Grease recovery devices shall receive all grease laden waste discharge from the major point sources. A floor drain shall not be considered a major point source.

(2) *Sizing.* Grease recovery devices shall be sized based upon the anticipated load and/or conditions of actual use.

(3) *Capacity.* Grease recovery devices shall have a minimum retention capacity as indicated in Table 1 set forth in 5-6-124(d) for the flow-rates indicated. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-126 - High risk facilities.

Any high risk facility that has had violations of a wastewater discharge permit, of federal, state or local laws, or of requirements of the authority shall incorporate a grease recovery device in combination with and preceding the grease trap. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-127 - Alternative methods.

(a) *Technology and methods,* other than those set forth in sections 5-6-123 through 5-6-125, may be permitted by the authority; provided, that the technology or method meets the minimum performance standards established by the authority.

(b) *Biological or chemical treatment agents.* Biological or chemical treatment agents for the separation, emulsification and/or removal of grease, fats and oils are prohibited, unless a written authorization has been obtained from the authority. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-128 - Discharges from photographic processing facilities

(a) It shall be unlawful to discharge or otherwise induce silver rich solutions from a photographic processing facility into the POTW, unless such silver rich solution is managed by the photographic processing facility in accordance with the silver CMP, prior to its introduction into the collection system or the POTW.

(b) The silver CMP is a fully enforceable element of the authority's industrial pretreatment program and constitutes a local limitation for silver that is discharged from photographic processing facilities.

(c) Within 90 days after the enactment of this division for existing photographic processing facilities, or within 90 days before the date upon which a new photographic processing facility commences the discharge of silver rich solution into the POTW, the photographic processing facility shall notify the authority that it discharges or intends to discharge silver rich solutions and shall confirm that these discharges shall thereafter be managed in accordance with the silver CMP. No photographic processing facility shall thereafter discharge waste, solutions or other substances that are not in accordance with the silver CMP.

(d) A photographic processing facility which has implemented the silver CMP for the control of silver discharges to the POTW shall submit an annual compliance certification to the authority by November 30 of each year. This compliance certification shall be completed by an authorized representative of the photographic processing facility and shall contain the following statement:

On behalf of [name and address of photo-graphic processing facility], I certify that, except as specifically noted below, this facility, since the date of its last certification, has implemented and maintained the silver CMP for the control of silver discharges to the POTW, and that, as of the date of this certification, this facility is in compliance with the requirements of the silver CMP. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-129 - Best management practices.

Where reasonably appropriate and required by the engineer, an industrial user shall provide and implement best management practices. The authority, acting through the engineer, shall have the authority and responsibility to enter upon the property of any industrial user, at any reasonable time, for the purpose of investigating whether the user is following the required best management practices. Best management practices may be part of the industrial user permit issued to industrial users. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-130 - Accidental discharge and slug control plan.

(a) The Engineer shall evaluate whether each industrial user needs an accidental discharge and slug control plan. Where reasonably appropriate and required by the engineer, an industrial user shall provide protection from spills, leaks and/or slug discharges of prohibited materials and other wastes regulated under this division. For the purpose of this section, a slug discharge is any discharge of a nonroutine, episodic nature, including but not limited to an accidental spill or a noncustomary batch discharge. If the authority determines that an industrial use shall implement an accidental discharge and slug control plan is needed, the plan shall contain, at a minimum, the following elements:

(1) a description of the user's discharge practices, including nonroutine batch discharges;

(2) a description of stored chemicals;

(3) procedures for immediately notifying the authority of a slug discharge, including any discharge that would be a violation of section 5-6-111, with procedures for follow-up written notification within five days of the discharge;

(4) if necessary, procedures to prevent adverse impacts from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and measures and equipment for emergency response.

(b) Facilities to prevent such spills, leaks or slug discharges shall be provided and maintained at the industrial user's expense. Detailed plans showing such facilities and the operating procedures to provide this protection shall be submitted to the engineer for review, and shall be approved by the engineer prior to facility construction. The authority, acting through the engineer, shall have the authority and responsibility to enter upon the property of an industrial user, at any reasonable time, for the purpose of investigating or testing any facility to assure that an accidental spill and slug control plan is at all times fully effective. Accidental spill and slug control plan requirements may be part of the industrial user permit issued to industrial users.

(c) Immediately following a leak or spill, the industrial user shall notify the engineer or other authority personnel by telephone of the fact of the leak or spill, the extent of the leak or spill, and the known causes. Within five days following the leak or spill, the user shall submit to the engineer a detailed written report describing the cause of the leak or spill and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the user of any expense, loss,

damage or other liability which may be incurred as a result of damage to the POTW or any other property or of injury to persons caused by the leak or spill. Any such notification shall not relieve the user of any liabilities, fines or other applicable penalties which may be imposed under this code or other applicable laws. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-131 through 5-6-140 - reserved.

SUBDIVISION D - Wastewater Discharge Permits

Sec. 5-6-141 - Wastewater discharge permits required.

(a) No significant industrial user shall discharge wastewater into the POTW without first obtaining a wastewater discharge permit from the authority, except that a significant industrial user that has filed a timely application pursuant to section 5-6-142 may continue to discharge for the time period specified therein.

(b) The engineer may require other users to obtain wastewater discharge permits as may be necessary to carry out the purposes of this division.

(c) Any violation of the terms or conditions of a wastewater discharge permit shall be deemed a violation of this division.

(d) Receipt of a wastewater discharge permit does not relieve a permittee of its obligation to comply with all federal and state pretreatment standards and requirements and with all other requirements of federal, state and local law. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-142 - Wastewater discharge permit required for new connections.

Any user required to obtain a wastewater discharge permit which proposes to begin or recommence discharging into the POTW shall obtain such permit prior to beginning or recommencing such discharge. An application for a wastewater discharge permit shall be filed at least 90 days prior to the date upon which any discharge will begin or recommence. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-143 - Wastewater discharge permits application content.

(a) All users required to obtain a wastewater discharge permit shall submit a permit application. The engineer may require all users to submit, as part of an application, the following information:

(1) all information required by section 5-6-161 of this division;

(2) a description of the activities, facilities and plant processes on the premises of the user, including a list of all raw materials and chemicals stored at the facility which are, or could accidentally or intentionally be, discharged to the POTW;

(3) the number and type of employees, hours of operation, and proposed or actual hours of operation;

(4) each product produced by type, amount, process or processes, and rate of production;

(5) the type and amount of raw materials processed (average and maximum per day);

(6) site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains and appurtenances by size, location and elevation, and all points of discharge;

(7) time and duration of discharge; and

(8) any other information as may be deemed necessary by the engineer to evaluate the application.

(b) Incomplete or inaccurate applications will not be processed and will be returned to the user. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-144 - Issuance of wastewater discharge permit.

The engineer will evaluate the application and any data and other information furnished by the user, and may require additional information. Within 60 days after receipt of a complete wastewater discharge permit application, the engineer will determine whether to issue a wastewater discharge permit. The engineer may deny any application for a wastewater discharge permit if he determines that the discharge will not comply with the requirements set forth in this division or in federal, state and local law. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-145 - Wastewater discharge permit content.

A wastewater discharge permit shall contain a provision that expressly subjects the permit to all provisions of this division and all other applicable federal, state and local laws, regulations and conditions, and any user charges and fees established by the authority and/or the city. A permit shall also contain, at a minimum, the following:

(1) the name and address of the owner or operator of the user (the permittee), and the issuance, effective and expiration dates of the permit;
(2) the most stringent applicable discharge limits, including those limits established by this division, limits contained in applicable national categorical pretreatment standards, and limits established by another political subdivision pursuant to agreements between the authority and the subdivision;
(3) the local pretreatment limits as set forth in section 5-6-113;
(4) the monitoring requirements imposed on all permittees, including but not limited to the pollutants to be monitored, the locations for taking samples, the methods of taking and analyzing samples, and the frequency of taking samples;
(5) the reporting requirements imposed on the permittee, including but not limited to the type and contents of each report and the date of submission for each report;
(6) a requirement that, in the event sampling indicates a violation of any permit condition, the permittee shall notify the authority of the violation within 24 hours of first becoming aware of it, and shall repeat the sampling and analysis and submit the results of the repeat analysis to the authority within 30 days of first becoming aware of the violation; provided, that the permittee shall not be required to resample if the authority or the permittee performs sampling at the facility covered by the permit at a frequency of at least once per month, or the authority or the permittee performs sampling at the facility between the time when the permittee performs its initial sampling and the time when the permittee receives the results of this sampling;
(7) standard conditions that are contained in all wastewater discharge permits;
(8) specific conditions that apply to the particular permittee, including but not limited to requirements to construct, maintain and operate certain pretreatment facilities, requirements to develop and implement compliance schedules, requirements to develop and implement best management practices, and requirements to develop and implement accidental spill and slug control plans;
(9) other conditions as may be reasonably necessary to regulate the permittee; and
(10) the circumstances in which the permit may be examined and modified by the authority. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-146 - Wastewater discharge permit duration.

A wastewater discharge permit shall be issued for a specified time period, not to exceed five years from the effective date of the permit. A wastewater discharge permit may be issued for a period less than five years at the discretion of the engineer. Each wastewater discharge permit shall indicate the specific

date upon which it will expire. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-147 - Wastewater discharge permit modifications.

(a) Upon the promulgation of a national categorical pretreatment standard, the authority shall notify all users holding a wastewater discharge permit which may be subject to the new standard. If the new standard is more stringent than corresponding requirements in the permits of such users, the authority shall modify the permits to require compliance with the new standard within the time frame prescribed by the standard. Where a user which becomes subject to a new pretreatment standard does not hold a wastewater discharge permit, the user shall file a completed permit application form with the authority within 90 days after the promulgation of the new standard, unless a federal or state statute or regulation requires that the application be filed within a shorter period of time.

(b) A wastewater discharge permit is subject to modification by the engineer as limitations or requirements identified in this division are revised or upon just cause. An industrial user shall be informed of any permit modification at least 30 days prior to the effective date of the modification, unless federal or state law or regulation requires an earlier effective date. Any modification in a permit shall include a reasonable time schedule for compliance. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-148 - Wastewater discharge permit transfer.

A wastewater discharge permit shall be issued to a specific user, as the permittee, for a specific facility and a specific operation. A permit shall not be assigned, transferred or sold by a permittee to a new owner or operator of the permittee's facility or to another user, unless the assignment, transfer or sale has been approved by the engineer. A permit shall, in the case of a new or changed user operation, automatically expire unless the new or changed operation has been approved by the engineer. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-149 - Wastewater discharge permit revocation.

If the director or the engineer determines that a user's violation of any discharge limitations or standards or other requirements imposed on it by this division, including a permit issued pursuant to this division, threatens the public health, presents an endangerment to the environment, interferes with the operation of the POTW or causes the authority to be in violation of its NPDES permit or any state permit issued to regulate the treatment of wastewater or the treatment or application of sludge, the authority may suspend wastewater treatment service, including collection and treatment services, to the user. In addition, the city and the authority may revoke any permit issued under this article when the city or the authority determines that the user's continued discharge into the POTW will be in violation of any federal, state or local law or regulation, or any requirement or procedure issued pursuant to any such law. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-150 - Permit reissuance.

A wastewater discharge permittee may apply for the reissuance of a wastewater discharge permit at least 90 days prior to the expiration of the existing permit. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-151 - Regulation of waste received from other political subdivisions.

No user shall discharge into the POTW any wastewater containing pollutant levels above the local limit pretreatment standards set by the authority in accordance with 40 C.F.R. 403.5(c)(1). The authority shall require compliance with validly adopted local limits of other political subdivisions for users whose

discharges are tributary to the POTW of such political subdivisions and applicable pursuant to agreements between the authority and the political subdivision. The authority may impose maximum mass or concentration discharge limits in accordance with section 5-6-113. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-152 through 5-6-160 - reserved.

SUBDIVISION E - Reporting Requirements

Sec. 5-6-161 - Baseline monitoring reports.

Within 180 days after the effective date of a new or revised categorical pretreatment standard, or 180 days after a final administrative decision regarding a category determination submission under 40 C.F.R. 403.6(a)(4), whichever is later, any existing industrial user subject to the standard or determination which is currently discharging to or scheduled to discharge to or the POTW shall submit to the authority a report which contains the information set forth in subsections (1) through (7) below. At least 90 days prior to discharging into the POTW, any new industrial user, and any user that becomes a categorical industrial user by virtue of the promulgation of the new or revised categorical pretreatment standard, shall submit to the authority a report which contains the information described in subsections (1) through (7) below; provided, that new users shall give estimates of the information requested in subsections (4) and (5). New users shall also be required to include in this report information on the method of pretreatment that the user intends to use to meet the new or revised pretreatment standard.

(1) *Identifying information.* The industrial user shall submit the name and address of the facility, including the name of the operator and owners.

(2) *Permits.* The industrial user shall submit a list of any environmental control permits held by or for the facility.

(3) *Description of operations.* The industrial user shall submit a brief description of the nature, average rate of production, and the standard industrial classification of each operation carried out by the user. This description should include a schematic process diagram which indicates points of discharge from the regulated processes to the POTW.

(4) *Flow measurement.* The industrial user shall submit information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from each of its regulated process streams and from all other streams as necessary to allow use of the combined waste stream formula of 40 C.F.R. 403.6(e). The authority may allow for verifiable estimates of these flows where considerations justified by cost or feasibility.

(5) *Measurement of pollutants.*

(i) The industrial user shall identify the pretreatment standards applicable to each of its regulated processes.

(ii) The industrial user shall conduct, and submit the results of, sampling and analyses that identify the nature and concentration, or mass where required by an applicable pretreatment standard or by the authority, of the regulated pollutants that are in the discharge from each of its regulated processes. Both daily maximum concentrations and applicable average concentrations, or mass where required, shall be reported for each regulated pollutant. All samples shall be representative of daily operations. All sampling and analyses shall be performed in accordance with the techniques prescribed in 40 C.F.R. Part 136 and any amendments thereto; provided, that, if 40 C.F.R. Part 136 does not contain sampling or analytical techniques for the pollutants in question, or where the administrator

determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutants in question, sampling and analytical procedures suggested by the authority or other parties and approved by the administrator may be used.

(iii) In conducting the sampling required by this subsection the industrial user shall take a minimum of one representative sample to compile the data necessary to comply with the requirements of this subsection.

(iv) In conducting the sampling required by this subsection, samples shall be taken immediately downstream from pretreatment facilities associated with the industrial user, if any, or immediately downstream from the user's regulated processes if no pretreatment facility exists. If non-regulated wastewater is mixed with the user's regulated wastewater prior to treatment, the user shall measure the flows and concentrations necessary to allow use of the combined waste stream formula of 40 C.F.R. 403.6(e) in order to evaluate compliance with each applicable pretreatment standard. Where an alternate concentration or mass limit has been calculated in accordance with 40 C.F.R. 403.6(e), this alternate limit, along with supporting data, shall be submitted to the authority.

(v) In its baseline report, the industrial user shall state the time, date and exact place of the sampling it has conducted pursuant to this subsection and the methods it used to analyze the samples, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant discharges to the collection system and the POTW.

(vi) The authority may allow the submission of a baseline report which provides a measurement of pollutants by utilizing only historical data, as long as the authority concludes that the data provide sufficient information for it to determine the need for industrial pretreatment measures.

(6) *Certification.* The industrial user shall submit a statement, executed by an authorized representative of the user, as defined in section 5-6-172 and certified by a qualified professional as required by 40 C.F.R. 403.12(b)(6), that it is meeting all applicable pretreatment standards and requirements on a consistent basis or, if not, that identifies the additional operation and maintenance measures and/or the additional pretreatment measures that are required in order for it to meet the standards and requirements.

(7) *Compliance schedule.* If additional operation and maintenance measures and/or additional pretreatment measures are required in order for an industrial user to meet any pretreatment standard, the user shall describe the shortest schedule by which it will provide and implement such additional measures. The completion date shown on such schedule shall not be later than the compliance date established for the applicable pretreatment standard.

(8) *Modifications of pretreatment standards.*

(i) If, at the time an industrial user's baseline report is submitted, the user's categorical pretreatment standard has been modified by a removal allowance pursuant to 40 C.F.R. 403.7, by the combined waste stream formula pursuant to 40 C.F.R. 403.6(e), or by a fundamental different factors variance pursuant to 40 C.F.R. 403.13, the information required by subsections (6) and (7) shall pertain to the modified limits.

(ii) If, subsequent to the submission of an industrial user's baseline report, the user's categorical pretreatment standard is modified by a removal allowance pursuant to 40 C.F.R. 403.7, by the combined waste stream formula pursuant to 40 C.F.R. 403.6(e), or by a fundamentally different factors variance pursuant to 40 C.F.R. 403.13, the user shall submit to the authority all amendments to the information required by subsections (6) and (7) within 60 days after the modified limit is approved.

(9) *Compliance schedule for meeting categorical pretreatment standards.* The following conditions shall apply to the schedule required by this section.

(i) The schedule shall contain increments of progress in the form reported by the dates for the commencement and completion of major events leading to the construction and operation of additional operation and maintenance measures and/or additional pretreatment measures required for the industrial user to meet applicable pretreatment standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction); provided, that in no event, shall an increment referred to in this subsection exceed nine months

(ii) The industrial user shall commit that not later than 14 days following each date set forth in the schedule and the final date for compliance, it will submit a progress report to the authority which, at a minimum, states whether it has complied with the increment of progress to be met on such date and, if not, states the date on which it expects to comply with the increment of progress, the reasons for delay, and the steps being taken to adhere in the future to the compliance schedule; provided, that in no event shall more than nine months elapse between the submission of those reports to the authority. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-162 - Report on compliance with categorical pretreatment standard deadline.

Within 90 days following the date for final compliance with an applicable categorical pretreatment standard or, in the case of a new source, following commencement of the introduction of wastewater into the POTW, any industrial user subject to the pretreatment standard and its requirements shall submit to the authority a report containing the information described in section 5-6-161(4) through (6) of this section. For industrial users subject to equivalent mass or concentration limits established by the authority in accordance with the procedures in 40 C.F.R. 403.6(c), this report shall contain a reasonable measure of the user's long term production rate. For all other industrial users subject to categorical pretreatment standards expressed in terms of allowable pollutant discharge per unit of production, or other measure of operation, this report shall include the user's actual production during the appropriate sampling period. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-163 - Periodic compliance reports.

(a) All industrial users subject to pretreatment standard, after the compliance date of the standard or, in the case of a new source, after commencement of its discharge into the POTW, submit not less than two times per year, unless required more frequently in the pretreatment standard or by the authority or the approval authority, a report stating the nature and concentration in the user's effluent of the pollutants which are limited by each pretreatment standard applicable to the user. This report shall also include a record of measured or estimated average and maximum daily flows during the reporting period for the discharge reported in section 5-6-161(4), except that the authority may require a more detailed report of the flows. At the authority's discretion and in consideration of such factors as local high or low flow rates, holidays, budget cycles and similar factors, the authority may agree to alter the months during which the reports required by this subsection shall be submitted. In cases where the Pretreatment Standard required compliance with a Best Management Practice (BMP) or pollution prevention alternative, the User must submit documentation required by the engineer or the pretreatment standard necessary to determine the compliance status of the user.

(b) Where the authority has imposed mass limitations on industrial users, as provided for by 40 C.F.R. 403.6(d), the report required by subsection (a) shall indicate the mass of pollutants regulated by the applicable pretreatment standards in the discharge from the industrial user.

(c) For industrial users subject to equivalent mass or concentration limits established by the authority in accordance with the procedures in 40 C.F.R. 403.6(c), the report required by subsection (a) shall contain a reasonable measure of the user's long-term production rate. For all other industrial users subject to categorical pretreatment standards expressed only in terms of allowable pollutant discharge per unit of production, or other measure of operation, the report required by subsection (a) shall include the user's actual average production rate for the reporting period.

(d) The user shall report all monitoring results collected at the prescribed monitoring point as specified in the wastewater permit. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-164 - Monitoring and analysis to demonstrate continued compliance.

(a) The reports required by sections 5-6-161 through 5-6-163 shall contain the results of the sampling and analysis of the discharge of the industrial user, including the flow and the nature and concentration, or production and mass where requested by the authority, of the pollutants contained in the discharge which are limited by an applicable pretreatment standard. This sampling and analysis may be performed by the authority in lieu of the user. Where the authority performs the required sampling and analysis, the user will not be required to submit the compliance certification required under 40 C.F.R. 403.12(b)(6) and 40 C.F.R. 403.12(d). In addition, where the authority itself collects the information required for a report, including flow data, the user shall not be required to submit the report.

(b) If sampling performed by an industrial user indicates a violation of any permit condition, the user shall notify the authority within 24 hours of becoming aware of the violation. The user shall also repeat the sampling and analysis, and shall submit the results of the repeat analysis to the authority within 30 days after becoming aware of the violation.

(c) The reports required by section 5-6-163 shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, and the data shall be representative of conditions occurring during the reporting period. The authority shall require monitoring as frequently as necessary to assess and assure compliance by industrial users with applicable pretreatment standards and requirements.

(d) All analyses conducted under this section shall be performed in accordance with the applicable procedures set forth in section 5-6-161. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-165 - Notice of potential problems, including slug loading.

(a) In the case of any discharge, including but not limited to accidental discharges, discharges of a nonroutine, episodic nature, noncustomary batch discharges or slug loads, that may cause potential problems for the POTW, the user shall immediately telephone and notify the authority of the discharge. This notification shall include the location of the discharge, the type of waste, the concentration and volume, if known, of the waste, and the corrective actions taken by the user.

(b) Within five days following such discharge, the user shall submit a detailed written report describing the causes of the discharge and the measures to be taken by the user to prevent similar future occurrences. The authority may waive this requirement. Such notification shall not relieve the user of any expense, loss or damage (including damage to property and injury to persons); nor shall such notification relieve the user of any fines, penalties or other liabilities which may be imposed pursuant to this code.

(c) A notice shall be permanently posted on the user's bulletin board or other prominent place advising employees who to call in the event of a discharge described in subsection (a). Employers shall ensure that all employees who may cause such a discharge to occur are advised of the emergency

notification procedure.

(d) Significant industrial users are required to notify the authority immediately of any changes at its facility affecting potential for a slug discharge. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-166 - Reports of changed discharge.

(a) Each user must notify the authority, in writing, of any planned significant changes to the user's operations or system which might alter the nature, quality or volume of its wastewater, at least 30 days prior to the change.

(b) The engineer may require the user to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a wastewater discharge permit application under section 5-6-141.

(c) The engineer may issue a wastewater discharge permit under section 5-6-141 et seq. or modify an existing wastewater discharge permit in response to changed conditions or anticipated changed conditions.

(d) For purposes of this section, significant changes include, but are not limited to, flow increases of 20 percent or greater, and the discharge of any previously unreported pollutants. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-167 - Reports from unpermitted users.

All users not required to obtain a wastewater discharge permit shall provide reports to the engineer as required by the engineer. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-168 - Notice of violation; repeat sampling and reporting.

In the event sampling indicates a violation of any permit condition, the permittee shall notify the authority of the violation within 24 hours of first becoming aware of it, and shall repeat the sampling and analysis and submit the results of the repeat analysis to the authority within 30 days of first becoming aware of the violation; provided, that the permittee shall not be required to resample if the authority or the permittee performs sampling at the facility covered by the permit at a frequency of at least once per month, or the authority or the permittee performs sampling at the facility between the time when the permittee performs its initial sampling and the time when the permittee receives the results of this sampling. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-169 - Notification of the discharge of hazardous waste.

(a) Any user who discharges hazardous waste shall notify the authority, the Environmental Protection Agency Regional Waste Management Division Director, and all Virginia Hazardous Waste Authorities, in writing, of any discharge into the collection system or the POTW of a substance which, if otherwise disposed of, would be a hazardous waste under 40 C.F.R. Part 261. Such notification must include the name of the hazardous waste as set forth in 40 C.F.R. Part 261, the Environmental Protection Agency hazardous waste number, and the type of discharge (continuous, batch or other).

(b) If the user discharges more than 100 kilograms of such waste per calendar month to the collection system or the POTW, the notification shall contain, to the extent such information is known and readily available to the user, an identification of hazardous constituents in the waste stream discharged during that calendar month, and an estimate of the mass of constituents in the waste stream expected to be discharged during the following 12 months. All notification must take place no later than 180 days after the discharge commences. Any notification under this subsection must be submitted once for each hazardous waste discharged. However, notifications of changed discharges

must be submitted under section 5-6-166. The notification requirement in this section does not apply to pollutants already reported by users subject to categorical pretreatment standards under the self-monitoring requirements of sections 5-6-161 through 5-6-163.

(c) Dischargers are exempt from the requirements of subsection (a) during a calendar month in which they discharge no more than 15 kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 C.F.R. 261.3(d) and 261.33(e). Discharge of more than 15 kilograms of non-acute wastes, as specified in 40 C.F.R. 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the user discharges more than 15 kilograms of the same non-acute wastes do not require additional notification.

(d) In the event that new regulations are promulgated under Section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the user shall notify the engineer, the EPA Regional Waste Management Waste Division Director and the Virginia Hazardous Waste Authorities of the discharge of such substance within 90 days of the effective date of the regulations.

(e) In the case of any notification made under this section, the user shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

(f) This section does not create a right to discharge any substance not otherwise permitted to be discharged under a permit issued under this division or pursuant to applicable federal, state or local law. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-170 - Analytical requirements.

All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, unless otherwise specified in an applicable categorical pretreatment standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the director or other parties approved by EPA. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-171 - Sample collection.

Samples collected to satisfy reporting requirements must be based on data obtained through appropriate sampling and analysis performed during the period covered by the report, based on data that is representative of conditions occurring during the reporting period.

(a) Except as indicated in section (b) and (c) below, the user must collect wastewater samples using 24-hour flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by engineer. Where time-proportional composite sampling or grab sampling is authorized by the authority, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: for cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics, the samples may be composited in the laboratory.

Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by engineer, as appropriate. In addition, grab samples may be required to show compliance with instantaneous limits.

(b) Samples for oil and grease, temperature, pH, cyanide, total phenols, sulfides, and volatile organic compounds must be obtained using grab collection techniques.

(c) For sampling required in support of baseline monitoring and 90-day compliance reports required in section 5-6-161 and 5-6-162 [40 CFR 403.12(b) and (d)], a minimum of four grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organic compounds for facilities for which historical sampling data do not exist; for facilities for which historical sampling data are available, the director may authorize a lower minimum. For the reports required by paragraphs section 5-6-164 (40 CFR 403.12(e) and 403.12(h)), the industrial user is required to collect the number of grab samples necessary to assess and assure compliance by with applicable pretreatment standards and requirements. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-172 - Report submission.

All written reports which are required to be submitted to the authority or engineer will be deemed to have been submitted on the date postmarked by the United States Postal Service. For any report which is not deposited, postage prepaid, into a mail facility serviced by the United State Postal Service, the date of the authority's or engineer's receipt of the report shall govern. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-173 - Recordkeeping requirements.

All records which the engineer requires to be maintained by an industrial user shall be made available for copying by the administrator, the city, the approval authority and the control authority upon request, including documents associated with required Best Management Practices. These records shall remain available for a period of at least three years. This period shall be automatically extended for the duration of any litigation involving the user or the authority, or where the user has been specifically notified of a longer retention period by the authority or the engineer. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-174 - Application signatories and certification.

All reports, data, product and materials information, and other information required by the authority or engineer to be maintained by users shall be submitted to the authority or engineer upon request. All reports submitted to the authority or engineer shall be signed by a representative of the user, who is authorized to make a certification on behalf of the user, and shall include the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for a knowing violation. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-175 - Fraudulent and false statements.

All reports and certifications required by this division are subject to the provisions of 18 U.S.C. 1001, relating to fraudulent and false statements and the provision of the Clean Air Act, 330 S.C. 1311 and 1314, relating to false statements, representation or certifications in reports required by the Act. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-176 - Information requests to users; generally.

The engineer may request that a user submit information on the nature and characteristics of its wastewater. The user shall provide this information within 60 days of the request. The engineer is authorized to prepare a form for this purpose and may periodically require users to update all information which has been provided in accordance with this section. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-177 through 5-6-180 - reserved.

SUBDIVISION F - Compliance Monitoring

Sec. 5-6-181 - Right of entry for inspection and sampling; compliance schedules.

(a) The approval authority, the director, the engineer and other authorized personnel of the city and the authority may inspect any user to ascertain whether the requirements of this division are being complied with. Occupants of premises where wastewater is created for discharging into, or is discharged into, the collection system or the POTW shall allow the approval authority, the director, the engineer and authorized personnel of the city and the authority access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records, or the performance of any duties imposed by this division. The approval authority, the authority and the city shall have the right to set up on the property of a user all equipment and devices necessary to conduct sampling inspections, compliance monitoring and/or metering operations. Where a user has security measures in force which require proper identification and clearance before entry onto its property, the user shall make necessary arrangements so that, upon presentation of suitable identification, the director, the engineer and other personnel from the city and authority, or the approval authority, shall be permitted to enter, without delay, for the purpose of performing an inspection or monitoring.

(b) The approval authority, the authority and the city may require that each industrial user develop a compliance schedule for the installation of technology required to meet applicable pretreatment standards and requirements.

(c) The engineer may require a user to install monitoring equipment. The user at its own expense shall maintain at all times the facility's sampling and monitoring equipment in a safe and proper operating condition. All equipment and devices used to measure wastewater flow and quality shall be calibrated at least every six months by a qualified technician to ensure their accuracy.

(d) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected or where sampling is to be conducted shall be promptly removed by the user at the request of the engineer and shall not be replaced. The cost of clearing such access shall be borne by the user.

(e) Unreasonable delays in allowing the engineer access to the user's premises shall be a violation of this division. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-182 - Search warrants.

If the engineer has been refused access to a building, structure or any other part of a user's property or premises, and is able to demonstrate probable cause to believe that there may be a violation of this division, or that there is a need to inspect and/or sample as part of a routine division inspection and sampling program of the authority designed to verify compliance with this division or any permit or order issued hereunder, or to protect the overall public health, safety and welfare of the community, the engineer may seek the issuance of a search warrant from an appropriate court. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-183 through 5-6-190 - reserved.

SUBDIVISION G - Administrative Enforcement Remedies

Sec. 5-6-191 - Notice of violation.

A notice of violation is a written notice to a user by the engineer that the engineer has determined that the user has violated a pretreatment standard or another requirement of this division. Upon receipt of a notice of violation, the user shall inform the engineer of the reasons for the violation and the actions it intends to take to correct the violation, and shall proceed to undertake those actions and correct the violation. A notice of violation shall be sent by the engineer by certified mail, return receipt requested. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-192 - Compliance meeting; compliance schedule.

(a) If, following the issuance of a notice under section 5-6-191, the user continues to violate provisions of this division, the engineer may issue a "Notice of Compliance Meeting" to the user which requires the user to attend a compliance meeting. Similarly, the engineer may require a user to attend a compliance meeting, without having first issued a notice under section 5-6-191, where the user's violations of this division are of significant magnitude or duration.

(b) Attendance at the compliance meeting is mandatory for the user, and failure to attend may result in an order for a show cause hearing or the filing of an action by the authority seeking remedies that are provided by this division and applicable federal, state and local laws.

(c) At the compliance meeting, the engineer may establish such procedures, investigations and studies as are deemed necessary to determine the cause of such violations and the actions that are required to correct them.

(d) At the compliance meeting, the engineer also may establish a compliance schedule that defines the actions to be taken by the user to determine the cause of the violations, or the actions that are to be taken to correct the violations, and the dates by which the actions are to be taken. A compliance schedule may be issued alone or may be incorporated into the user's wastewater discharge permit, an administrative order or another document. Failure to comply with the terms of the compliance schedule shall constitute a separate violation of this division, and may result in an order for a show cause hearing or the institution of a judicial action under subdivision H. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-193 - Appearance before the authority.

(a) If a user fails to comply with the terms of a compliance schedule, or otherwise violates the provisions of this division, the engineer may issue a written "Appearance Before the Authority" notice that requires the user to attend a regular or special meeting of the authority to enable the authority to review and investigate the failure, as well as the user's noncompliance which gave rise to the compliance schedule.

(b) A notice issued by the engineer under subsection (a) is separate from, and may be issued independently of an administrative order issued under section 5-6-194 or an order to show cause issued under section 5-6-195. An appearance before the authority under this section is not a condition precedent for other enforcement action by the engineer or authority

(c) Failure of a user to appear before the authority as required by a notice issued under subsection (a) shall constitute a separate violation of this division, and may result in the institution of other administrative remedies under this subdivision or the institution of judicial actions under subdivision H. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-194 - Administrative order.

(a) The authority may issue an administrative order to a user which has failed to comply with one or more of the terms of a compliance schedule issued under section 5-6-192. The order shall require that the user come into compliance with the compliance schedule within a specified period of time.

(b) In conjunction with the issuance of any administrative order, the authority may assess a charge against the user equal to the actual costs incurred by the authority in the course of investigating the user, determining its violations, and issuing the order.

(c) Failure of a user to comply with an administrative order issued under subsection (a) shall constitute a separate violation of this division, and may result in the institution of other administrative remedies under this subdivision or the institution of judicial actions under subdivision H. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-195 - Order to show cause; show cause hearing.

(a) Notwithstanding any other provision in this subdivision, the authority may issue an order to any user which causes or allows an unauthorized discharge or otherwise violates this division that requires the user to show cause at a hearing before the authority why the authority should not revoke the user's permit or take other enforcement action against it. The order shall specify the date, time and place of the hearing.

(b) The order shall describe the user's noncompliance with its permit or with this division, shall state the action that the authority proposes the user to undertake to remedy its noncompliance, and shall direct the user to show cause before the authority why such action should not be taken.

(c) The authority shall cause the order to show cause to be mailed to the user by certified mail, return receipt requested.

(d) Following the show cause hearing, the authority may take such action as it deems appropriate, including but not limited to revocation of the user's permit, issuance of a written order that discharges be ceased immediately or after a specified period of time, and the initiation of one or more judicial actions under subdivision H. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-196 - Termination of service; revocation of permits.

(a) Notwithstanding any other provision in this subdivision, if the engineer determines that a user's violation of any discharge limitations or standards or other requirements imposed on it by this division, or by a permit issued pursuant to this division, endangers the public health, presents an endangerment to the environment, interferes with the operation of the POTW or causes the authority to be in violation of its NPDES permit or any state permit issued to regulate the treatment of wastewater or the treatment or application of sludge, then the authority may, after providing notice to the user and an opportunity to rebut the engineer's determination, suspend wastewater treatment service, including collection and treatment services, to the user.

(b) Notwithstanding any other provision in this subdivision, if the authority determines that a user's continued discharge into the collection system and the POTW will violate this division, federal, state or local law, or regulations and requirements issue pursuant to such law, then the authority, after providing notice to the user and an opportunity to rebut its determination, may revoke any permits issued to the user under the provisions of this article. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-197 - Emergency suspensions.

(a) The engineer may immediately suspend a user's authorization to discharge into the POTW, after notice to the user, whenever such suspension is necessary to stop an actual or threatened discharge which reasonably appears to present or cause an imminent or substantial endangerment to the health or welfare of any person.

(b) The engineer may immediately suspend a user's authorization to discharge into the POTW, after notice to the user and an opportunity to respond, if the user's discharge threatens to interfere with the operation of the POTW, or presents, or may present a non-imminent substantial endangerment to the environment.

(c) Any user notified of a suspension of its authorization to discharge shall immediately stop or eliminate its discharging. In the event of a user's failure to immediately comply with a suspension order, the engineer may take such steps and measures as deemed necessary, including immediate severance of the sewer connection, to prevent or minimize damage to the POTW or its receiving stream, or endangerment to any individuals. Except where a notice of termination under section 5-6-196 has been instituted against the user, the engineer may allow the user to recommence its discharge when the user has demonstrated, to the satisfaction of the engineer, that the grounds for the suspension order have been eliminated.

(d) A user that is responsible, in whole or in part, for a discharge that presents imminent danger shall submit a detailed written statement, describing the causes of the harmful contribution and the measures taken to prevent any future occurrence to the engineer, prior to the date of any show cause or other hearing under this subdivision. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-198 through 5-6-200 - reserved.

SUBDIVISION H - Judicial Enforcement Remedies

Sec. 5-6-201 - Criminal penalties.

(a) The owner and the operator of any user which has violated any provision of this division, of a wastewater discharge permit, or of an order issued under this division, or any other pretreatment standard or requirement shall, upon conviction thereof, be punished by a fine of not more than $1,000 per day for each violation or be imprisoned for up to 60 days for each violation, or both. Where a monthly or other long-term average discharge limit has been violated, each day during the applicable monthly or other long-term period shall constitute a separate violation. Also, violations of different provisions of this division, of a discharge permit, or of an order, and violations of different requirements of a pretreatment standard, shall constitute separate violations.

(b) In addition to the criminal penalty provided in subsection (a), the city and the authority may commence an action against the owner and the operator in the Circuit Court of City of Alexandria for appropriate legal or equitable relief, including but not limited to injunctive under section 5-6-203 and monetary damages. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-202 - Civil penalties.

(a) The owner and the operator of any user which has violated any provision of this division, of a wastewater discharge permit, or of an order issued hereunder, or any other pretreatment standard or requirement shall, in lieu of any criminal penalty, be liable for a civil penalty of up to $1,000 for each violation. An action seeking civil penalties may be filed by the city or the authority in the Circuit Court for the City of Alexandria. Where a monthly or other long-term average discharge limit has been violated, each day during the applicable monthly or other long-term period shall constitute a separate violation. Also, violations of different provisions of this division, of a discharge permit, or of an order, and violations of different requirements of a pretreatment standard, shall constitute separate violations.

(b) In determining the amount of the civil penalty to be assessed, the court shall take into account all relevant circumstances, including but not limited to the extent of harm caused by the violation, the magnitude and duration of the violation, the economic benefit gained by the user through its

violation, the corrective actions taken by the user, the compliance history of the user, and any other factor as justice may require.

(c) In addition to the civil penalty provided in subsection (a), the city and the authority may commence an action against the owner and the operator in the Circuit Court of City of Alexandria for appropriate legal or equitable relief, including but not limited to injunctive under section 5-6-203 and monetary damages.

(d) The filing of a suit for civil penalties shall not be a prerequisite for taking or initiating any other enforcement action against a user; nor shall it be a bar against an action for injunctive relief under section 5-6-203. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-203 - Injunctive relief.

When the director or the engineer determines that a user has violated, or continues to violate, any provision of this division, of a wastewater discharge permit, or of an order issued pursuant to this division, or any pretreatment standard or requirement, the city or the authority may petition the Circuit Court for the City of Alexandria for issuance of a temporary or permanent injunction, as appropriate, which restrains the owner and operator of the user, or compels the owner and operator to come into compliance with the provisions of this division, the user's wastewater discharge permit, the order issued to the user, or the other pretreatment standards or requirements, as the case may be, which the user has violated. The city and the authority may also seek appropriate legal and/or equitable relief, including a requirement for the user to conduct environmental remediation. A request for injunctive relief shall not be a bar against, or a prerequisite for, the taking of any other enforcement action against a user. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-204 - Remedies not exclusive.

The remedies provided for in this division are not exclusive. The city and the authority, and their authorized personnel, may take any other available enforcement actions against a noncompliant user. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-205—5-6-210 - reserved.

SUBDIVISION I - Fees and Charges

Sec. 5-6-211 - Fees and charges; meters.

(a) An industrial user seeking a wastewater discharge permit shall pay an application fee of $100 before its application will be processed.

(b) The holder of a wastewater discharge permit shall pay a fee to the authority to offset the authority's costs in administering the wastewater discharge permit system. The fee shall be $500 for each year of the term of the permit. The fee shall be paid in full prior to the issuance of the permit. A fee of $100 shall be assessed for any revisions to a discharge permit.

(c) Each industrial user shall pay the chemical and biological monitoring costs actually incurred by the authority as required by the user's permit. Payment of these costs shall be made within 30 days of written notice by the authority.

(d) Sewer use charges may be established by city council by resolution. Such charges shall be assessed against users and shall be based on wastewater volume and strength, as determined by metering, sampling and laboratory analysis of user discharges into the POTW. For purposes of this subsection:

(i)

The volume of wastewater discharged by a user into the POTW shall be based on the metered water consumption of the user, as shown in records maintained by Virginia American Water Company ("VAWC"). However, if a user which purchases water from VAWC considers that significant quantities of that water are not being discharged into the POTW, the user may request that the billings be based upon metered wastewater quantities. If the user's request is approved by the authority, the user may then provide and maintain, at its own expense, a meter acceptable to the authority for measurement of the quantities of wastewater discharged. The meter shall be accessible for inspection by the authority at all times and shall be maintained to produce an accurate record of the true quantities of wastewater discharged.

(ii) Whenever a user obtains any part of its water supply from sources other than VAWC, the user shall provide and maintain wastewater meters which will produce an accurate record of the true quantities of wastewater discharged into the POTW. However, in lieu of a wastewater meter, a user may utilize a water meter on its input water line if approved by the authority, in which case the readings from that meter shall be used to calculate the volume of wastewater flow that is to be used in computing charges.

(iii) No user may utilize an internal water meter to meter a portion of its total water use that either is or is not ultimately tributary to the sewer system as an alternative to a wastewater meter.

(e) All costs of meter installation, calibration and maintenance shall be borne by the user. The type of meter used by a user shall be acceptable to the authority. Meters shall be accessible at all times for inspection by the authority.

(f) In addition to the fees and charges established by or pursuant to this section, city council may, by resolution, establish and adjust other fees and charges to recover the costs that are incurred in the administration of this division.

(g) Fees and charges established pursuant to this section shall not preclude any other fees or charges established pursuant to or under other sections of this code. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-212 - Attorneys' fees and costs; referrals.

(a) The city and the authority may recover reasonable attorneys' fees, court costs and other expenses associated with an enforcement activity that is taken under this division, including sampling and monitoring expenses.

(b) The engineer will refer any suspicious circumstances which may require an investigation to the city attorney. All criminal investigations will be referred to the commonwealth's attorney. (Ord. No. 4501, 10/13/07, Sec. 1)

Secs. 5-6-213 through 5-6-220 - reserved.

SUBDIVISION J - Miscellaneous Provisions

Sec. 5-6-221 - Confidential information.

Information and data on a user obtained from reports, surveys, wastewater discharge permit applications, wastewater discharge permits and monitoring programs, and from the authority's inspection and sampling activities, shall be available to the public without restriction, unless the user specifically requests, and is able to demonstrate to the satisfaction of the authority, that the release of such information would divulge information, processes, or methods of production entitled to protection as trade secrets under applicable law. Any such request for confidentiality must be asserted at the time the user submits the information or data. When requested and demonstrated by the user furnishing a report that such information should be held confidential, the portion of a report which might disclose trade

secrets or secret processes shall not be made available for inspection by the public, but shall be made available immediately, upon the request of governmental agencies for uses related to the NPDES program or pretreatment program, and enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics and other "effluent data" as defined by 40 C.F.R. 2.302 will not be recognized as confidential information and will be available to the public without restriction. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-222 - Annual notice of significant noncompliance.

The engineer shall publish at least annually, in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by the authority, a list of the industrial users which, during the previous 12 months, were in significant noncompliance with applicable pretreatment standards and requirements imposed by this division. A user shall, for purposes of this section, be in significant noncompliance for any of the following reasons:

(1) chronic violations of wastewater discharge limits, defined as those in which 66 percent or more of all the measurements taken during a six-month period exceed, by any magnitude, a numeric pretreatment standard or requirement, including instantaneous limits, as defined by section 5-6-102;

(2) technical review criteria ("TRC") violations, defined here as those in which 33 percent or more of all the measurements for each pollutant parameter taken during a six-month period equal or exceed the product of the numeric pretreatment standard or requirement, including instantaneous limits, as defined in section 5-6-102; multiplied by the applicable TRC (1.4 for conventional pollutants and 1.2 for all other pollutants, except pH);

(3) any other violation of a pretreatment standard or requirement as term average, that the authority determines has caused, alone or in combination with other discharges, interference or pass through, including endangering the health of the general public or authority personnel;

(4) any discharge of one or more pollutants that has caused imminent danger to human health, welfare or the environment or has resulted in the authority's exercise of its emergency authority under 40 C.F.R. 403.8(f)(1)(vi)(B) to halt or prevent such discharge;

(5) failure to meet, within 90 days after the scheduled date, a compliance milestone, contained in a wastewater discharge permit or an enforcement order, for starting construction or attaining final compliance;

(6) failure to provide, within 45 days after its due date, any report required by this ordinance, such as a baseline monitoring report, a 90-day compliance report, a periodic self-monitoring report, or a report on compliance with a compliance schedule;

(7) failure to report noncompliance in a timely and accurate manner; and

(8) any violation or group of violations, which may include a violation of Best Management Practices, of this division that the authority determines has or will adversely affect the operation or implementation of the local pretreatment program. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-223 - Severability.

In the case of an inconsistency or conflict between a provision in this division and a provision set out elsewhere in this code, the provision of this division shall control. (Ord. No. 4501, 10/13/07, Sec. 1)

Sec. 5-6-224 - Method of storm and subsoil water disposal.

(a) Buildings shall have drainage provision for conveying storm water from roofs, paved areas and areaway drains, subsoil water, condensate, cooling water, etc., on the premise to a public storm sewer: except that where a public storm sewer is not available, an approved method of disposal shall be provided to the satisfaction of the director of transportation and environmental services. The director of transportation and environmental services may permit alternative means of disposal if the director deems the proposed alternative method to provide an environmental benefit to the city and the director determines that no nuisance will be created on any adjacent property or within the public right-of-way. Alternative methods of disposal may include, but are not limited to, onsite surface discharge, onsite infiltration and onsite detention in the form of a rain barrel or cistern. The director may require additional supporting information such as geotechnical or other engineering analyses. Direct discharge of roof drains within the public right-of-way may be permitted at the director's discretion. Direct discharge of ground water to gutters in the public right-of-way may be permitted at the director's discretion when a public storm sewer is not available.

(b) Availability.

(1) For a one- and two-family dwelling, a public storm sewer shall be deemed available when such sewer is within 100 feet of the premises on which the dwelling is located, measured along a street, and a connection may be made lawfully thereto.

(2) For any other buildings, a public storm sewer shall be deemed available when such sewer is within 500 feet of the premises on which the building is located, measured along a street, and a connection may be made lawfully thereto.

(c) Area drains are prohibited from entering septic tanks or public or private sewer systems unless specifically approved in writing by the director of transportation and environmental services.

(d) Prior to the issuance of any building permit for any proposed improvement to real property involving (1) the construction of a new home (2) construction of an addition to an existing home where either (A) the addition exceeds the area of the existing building footprint by 100 percent or more; or (B) the construction of the addition results in less than 50 percent of the existing first floor exterior walls, in their entirety, remaining; (3) changes to the existing grade elevation of one foot or greater; (4) changes to existing drainage patterns; or (5) land disturbance of 2,500 square feet or greater, a grading and drainage plan prepared by a professional engineer or land surveyor licensed by the Commonwealth of Virginia shall be submitted for review and approval by the director of transportation and environmental services or deputy director/city engineer. Such plan shall demonstrate that post-development drainage will have no greater impact on adjacent or down-stream property than pre-development conditions. The requirements for such plans, including without limitation form, content, methods of calculation, and procedures for review and approval, shall be established by regulations promulgated by the director of transportation and environmental services. A plan review fee in the amount of $500 shall accompany such plan, except that in instances where the proposed improvement is already subject to the erosion and sediment control requirements set forth in section 5-4-1 et seq. of this code, and a fee has already been paid pursuant to those requirements, no additional fee shall be required. No building permit for improvements subject to this subsection shall be issued until after the grading and drainage plan has been approved. When a grading and drainage plan is required pursuant to subsections (d)(2), (3) or (4) hereof, the requirement may be waived by the director of transportation and environmental services or his designee when such a waiver is requested by the property owner and such request is accompanied by sufficient information to demonstrate to the satisfaction of the director or deputy director/city engineer, in his or her reasonable engineering discretion, that no adverse drainage

impacts to abutting or adjacent property will occur as a result of the proposed construction. The director shall promulgate rules and regulations for the application, consideration, grant or denial of such waiver requests, including without limitation rules and regulations specifying the minimum information required for applications, and reasonable criteria and standards for the consideration of such requests. The decision on such requests shall be in writing, and shall state the grounds thereof. The decision to grant or deny a waiver request is committee to the discretion of the director or deputy director/city engineer, and shall not be subject to judicial review.

(e) Grading plans will be considered valid for a term of 36 months from the date of approval. A request to extend the validity of a grading plan must be submitted in writing to the director of transportation and environmental services a minimum of 60 days prior to expiration with a $100 fee. The director will determine if additional modifications or a new grading plan submission is required.

(f) Any change to an approved grading plan requires that an amended grading plan be filed and that the amended grading plan be reviewed and approved, pursuant to the provisions of this section 5-6-224(d). The director of transportation and environmental services may allow minor modifications without an amended grading plan. (Ord. No. 4659, 5/15/10, Sec. 8; Ord. No. 4800, 4/13/13, Sec. 1)

Sec. 5-6-225 - Violations and penalties.

(a) A violation of any section or provision of this article shall be a civil violation that shall be enforced through the levying of a civil penalty, pursuant to section 1-1-11 of this code, of $100 for a person's first violation and of $150 for each subsequent violation of the same section or provision. Each day during which a violation exists shall constitute a separate violation. However, a series of violations arising from the same operative set of facts shall not give rise to the levying of a civil penalty more frequently than once in any 10-day period, and shall not result in civil penalties exceeding a total of $3,000.

(b) In addition to the foregoing penalties, in the event that any person obtains a building permit based on representations that exempt the proposed construction from the grading and drainage plan requirements of section 5-6-224, and those representations prove to be incorrect, the director of transportation and environmental services or his designee may issue a written order stopping all work at the site until such time as a grading and drainage plan has been submitted for review and approved pursuant to section 5-6-224.

(c) A violation of any section or provision of this article may, in addition to and notwithstanding the penalty provided for in subsection (a) or (b), be restrained, prohibited or enjoined by appropriate proceedings in a court of competent jurisdiction. (Ord. No. 4659, 5/15/10, Sec. 8)

Appendix K

Dry Weather Overflow Inspection Forms for Year 2015

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 001 **at** Pendleton St.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
8/25/14	JJH	N		
9/19/14	JJH	N		
9/29/14	JJH	N		
10/10/14	JJH	N		
10/31/14	MJM	N		
11/13/14	MJM	N		
11/24/2014	MJM	N		
12/19/2014	MJM	N		
12/30/2014	MJM	N		
1/16/2015	MJM	N		
1/23/2015	MJM	N		
2/13/2015	MJM	N		
2/23/2015	MJM	N		
3/18/2015	FIP	N		
3/30/2015	FIP	N		
4/16/15	FIP	N		
4/22/15	FIP	N		
5/4/15	MS	N		
5/26/15	FIP	N		
6/12/15	FIP	N		
6/17/15	FIP	N		

SCHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 001 **at** Pendleton St.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
7/16/15	FIP/SS	N	—	—
7/17/15	FIP/SS	N	—	—
8/14/15	FIP/SS	N	—	—
8/18/15	FIP/SS	N	—	—
9/9/15	FIP/SS	N	—	—
9/15/15	FIP/SS	N	—	—
10/15/15	FIP/SS	N	—	—
10/21/15	FIP/SS	N	—	—
11/4/15	FIP/SS	N	—	—
11/17/15	FIP/SS	N	—	—
12/7/15	FIP/MS	N	—	—
12/16/15	FIP/MS	N	—	—
1/6/16	FIP/MS	N	—	—
1/7/16	FI/MS	N	—	—

CHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 002 **at** Royal St.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
8/25/14	JJH	NO		
9/19/14	JJH	NO		
9/29/14	JJH	NO		
10/10/14	JJH	NO		
10/31/14	MJM	NO		
11/13/14	MJM	NO		
11/24/14	MJM	NO		
12/9/14	MJM	NO		
12/30/2014	MJM	NO		
1/14/2015	MJM	NO		
1/23/2015	MJM	NO		
2/13/2015	MJM	NO		
2/23/2015	MJM	NO		
3/18/2015	FIP	No		
3/30/2015	FIP	N		
4/16/15	FIP	NO		
4/22/15	FIP	N		
5/4/15	MS	N		
5/26/15	FIP	N		
6/11/15	FIP	N		
6/17/15	FIP	N		

CHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 002 **at** Royal St.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
7/16/15	FIP/SS	N	—	—
7/17/15	FIP/SS	N	—	—
8/14/15	FIP/SS	N	—	—
8/18/15	FIP/SS	N	—	—
9/9/15	FIP/SS	N	—	—
9/15/15	FIP/SS	N	—	—
10/15/15	FIP/SS	N	—	—
10/21/15	FIP/SS	N	—	—
11/3/15	FIP/SS	N	—	—
11/17/15	FIP/SS	N	—	—
12/7/15	FIP/MS	N	—	—
12/16/15	FIP/MS	N	—	—
1/6/16	FIP/MS	N	—	—
1/7/16	FIP/MS	N	—	—

CHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 003 **at** KING ST. / WEST ST.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
8/25/14	JJH	NO		
9/19/14	JJH	NO		
9/29/14	JJH	NO		
10/10/14	JJH	NO		
10/31/14	MJM	NO		
11/13/14	MJM	NO		
11/24/14	MJM	NO		
12/19/14	MJM	NO		
12/30/14	MJM	NO		
1/16/2015	MJM	NO		
1/23/2015	MJM	NO		
2/13/2015	MJM	NO		
2/23/2015	MJM	NO		
3/18/2015	FIP	NO		
3/30/2015	FIP	NO		
4/16/15	FIP	N		
4/22/15	FIP	N		
5/4/15	MS	N		
5/26/15	FIP	N		
6/11/15	FIP	N		
6/17/15	FIP	N		

EDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 003 **at** King St / West St.

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
7/16/15	FIP/SS	N		
7/17/15	FIP/SS	N		
8/14/15	FIP/SS	N		
8/18/15	FIP/SS	N		
9/9/15	FIP/SS	N		
9/15/15	FIP/SS	N		
10/15/15	FIP/SS	N		
10/21/15	FIP/SS	N		
11/4/15	FIP/SS	N		
11/17/15	FIP/SS	N		
12/7/15	FIP/MS	N		
12/16/15	FIP/MS	N		
1/6/16	FIP/MS	N		
1/7/16	FIP/MS	N		

CHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 004 **at** JAMIESON AVE. / HOOFFS RUN

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
8/25/14	JJH	NO		
9/19/14	JJH	NO		
9/29/14	JJH	NO		
10/10/14	JJH	NO		
10/31/14	MJM	NO		
11/13/14	MJM	NO		
11/24/14	MJM	NO		
12/19/14	MJM	NO		
12/30/14	MJM	NO		
1/16/2015	MJM	NO		
1/23/2015	MJM	NO		
2/13/2015	MJM	NO		
2/23/2015	MJM	NO		
3/18/2015	FIP	NO		
3/30/2015	FIP	NO		
4/16/15	FIP	N		
4/22/15	FIP	N		
5/14/15	MS	N		
5/18/15	FIP	N		
6/11/15	FIP	N		
6/17/15	FIP	N		

EDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

FORM D

City of Alexandria, Virginia
Transportation & Environmental Services

CSO Outfall Dry Weather Overflow Inspection Log

Outfall No. 004 **at** Jamieson Ave. / Hooffs Run

Inspection Date	Person Inspecting	DWO Occurring (Y/N)	If Yes, describe conditions causing DWO	If Yes, describe action taken to remedy DWO
7/16/15	FIP/SS	N		
7/17/15	FIP/SS	N		
8/14/15	FIP/SS	N		
8/18/15	FIP/SS	N		
9/9/15	FIP/SS	N		
9/15/15	FIP/SS	N		
10/15/15	FIP/SS	N		
10/21/15	FIP/SS	N		
11/4/15	FIP/SS	N		
11/17/15	FIP/SS	N		
12/7/15	FIP/MS	N		
12/16/15	FIP/MS	N		
1/6/16	FIP/MS	N		
1/7/16	FIP/MS	N		

CHEDULE:

Inspect each outfall twice a month to ensure that no dry weather flows are occurring.

Appendix L

Combined Sewer Overflow Outfall Signage

Public Notice Sign at Pendleton Street Outfall

Public Notice Sign at Royal Street Outfall

Public Notice Sign at Duke Street and Hooffs Run Outfall

Public Notice Sign at Hooffs Run and African American Heritage Memorial Park

Appendix M

Public Notice

It's Your Turn to Lead!

ALEXANDRIA EARTH DAY

SATURDAY, APRIL 25, 2015

BEN BRENMAN PARK | 4800 BRENMAN PARK DRIVE

10 A.M. — 2 P.M.

Rain Site: Samuel W. Tucker Elementary School, 435 Ferdinand Day Dr.

UPCYCLING SHOWCASE • EXHIBITS • DEMONSTRATIONS • FOOD • FUN

www.alexandriava.gov/Earthday • www.alexandriava.gov • Events Hotline: 703.746.5592

facebook.com/RPCAAlexandriaVA • twitter.com/RPCA_AlexVA

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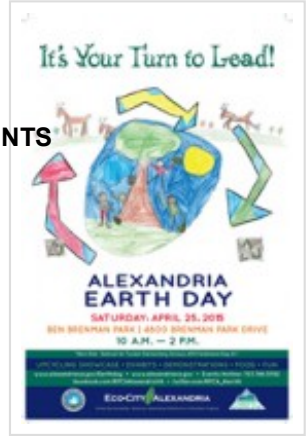
ALEXANDRIA EARTH DAY

ALEXANDRIANEWS.org
ALEXANDRIA VIRGINIA LOCAL NEWS
SINCE 2008
Today is Monday, July 27, 2015 Now over 800,000 hits a month.

WEATHER
Arlington, VA
81°F 7 mph
Forecast
Radar
Cameras
WeatherBug

Alexandria Earth Day on Saturday, April 25 – It's Your Turn to Lead!

April 23rd 2015



The City of Alexandria will host the 22nd annual Alexandria Earth Day and Arbor Day celebration at Ben Brenman Park, 4800 Brenman Park Dr., on Saturday, April 25, from 10 a.m. to 2 p.m. This year's theme is "It's Your Turn to Lead!" highlighted by the fifth annual Upcycling Showcase. The showcase features students from the Alexandria City Public Schools showing their upcycling creations based on the theme by modeling fashions created by them from upcycled materials, as well as their music, dance, literature and visual arts.

Earth Day features City agencies and organizations dedicated to protecting public health and the environment. Explore a Vactor Truck, state of the art technology the City uses to protect the Chesapeake Bay. Exhibitors will provide environmental educational activities for the whole family which invoke the spirit of Earth Day. Additional activities include plant giveaways; "Tent Talks" featuring biking in Alexandria, invasive plants, native plants and beekeeping; live animal exhibits; the Seventh Annual Ellen Pickering Award

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LETTERS/OPINIONS
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TOP STORIES
TRAFFIC & TRANSPORTATION
TRANSPORTATION TALK
VOLUNTEER OPPORTUNITIES

ARCHIVES (CURRENT YEAR)
Select Mon ▼

ARCHIVES (PAST YEARS)
2014
2013
2012
2011
2010
2009

presentation and the Arbor Day tree planting. Admission is free, food and beverages will be for sale.

Also featured will be live music by the Alexandria-based teen rock band Purple Isn't Six, which won this year's First Night Alexandria Battle of the Bands Contest.

Alexandria Earth Day is based on the need to promote education and lead us all to a green and sustainable future, in keeping with the goals of the Eco-City Alexandria Initiative. In addition, the Alexandria Earth Day Committee has committed to making this event a zero-waste and carbon neutral. For additional information on Alexandria Earth Day, visit www.alexandriava.gov/Earthday.

The City's Department of Recreation, Parks and Cultural Activities and Department of Transportation and Environmental Services, and the Environmental Policy Commission, are sponsoring the Earth Day Celebration.

The public is encouraged to take public transit, walk or bike to the event. This year DASH will be offering free rides for the Earth Day event on the DASH AT8 bus between the hours of 9:30-3 pm on April 25 only. Visit www.alexandriava.gov/Earthday for a printable pass to ride DASH AT8 to the event and for additional information on alternative modes of transportation. Additional parking is available at the Samuel W. Tucker Elementary School, located at 435 Ferdinand Day Dr.

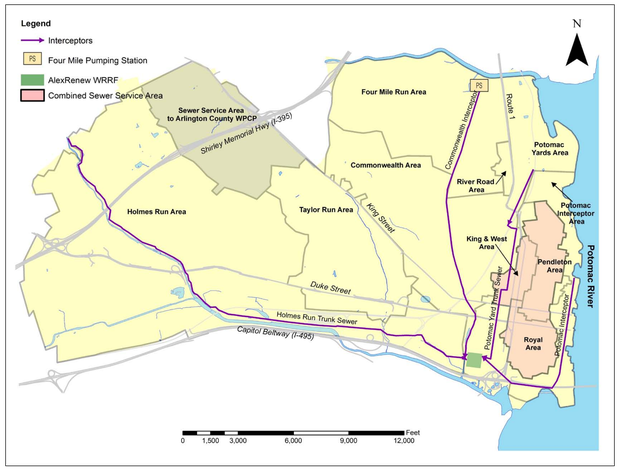
In case of inclement weather, the event will be relocated to the Samuel W. Tucker Elementary School, located at 435 Ferdinand Day Dr.

« Governor McAuliffe Signs Clean Energy Jobs Legislation

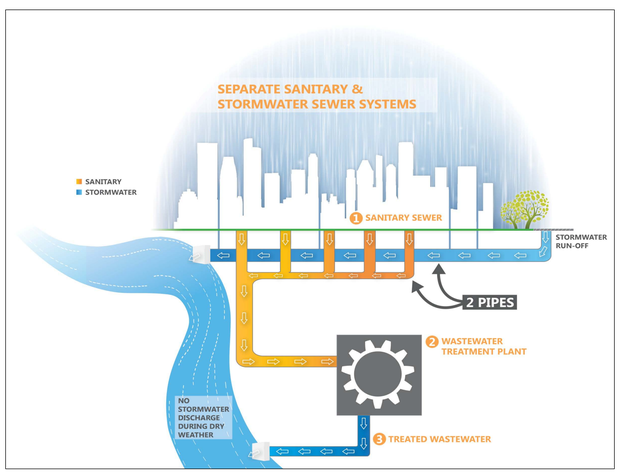
Construction Work Scheduled At Lee Center Basketball Court »

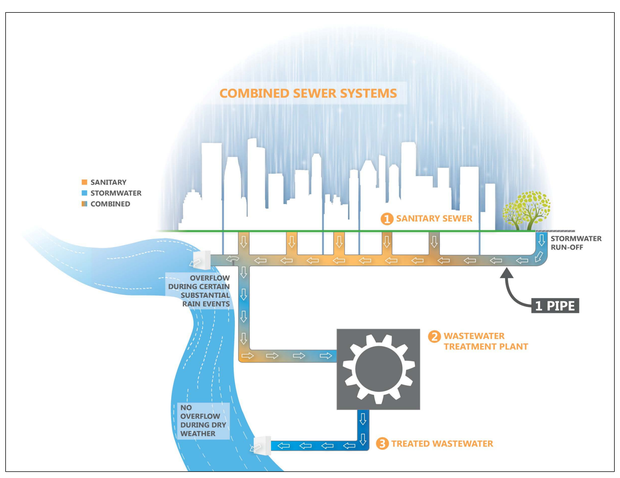
Improved Water Quality: Ensuring a Healthy, Sustainable Alexandria

Alexandria's Combined Sewer System (CSS)



What is a Combined Sewer System (CSS)?



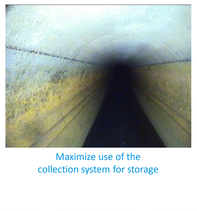


Nine Minimum Controls

Conduct Proper O&M Programs

ALEXANDRIA renew ENTERPRISES

Maximize flow to the POTW



Develop & Implement a pollution prevention program

Maximize use of the collection system for storage

Control solid and floatable material

Prohibit CSOs during Dry Weather

Public Notification

Long Term Control Plan Update (LTCPU)

By reducing CSO volumes and reducing bacteria levels in local waterways, the CSO Long Term Control Plan Update is part of ensuring a healthy, sustainable Alexandria. Visit http://www.alexandriava.gov/Environment to learn more about how you can be involved.

Potential Projects

Green Infrastructure

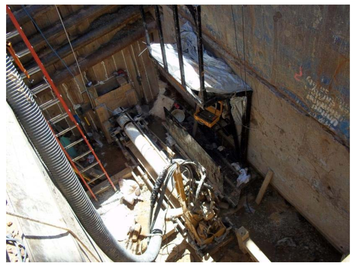
TC Williams Green Roof

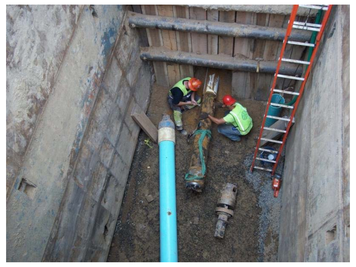
Right-of-Way Bioretention

Green Alley

Rain Barrels

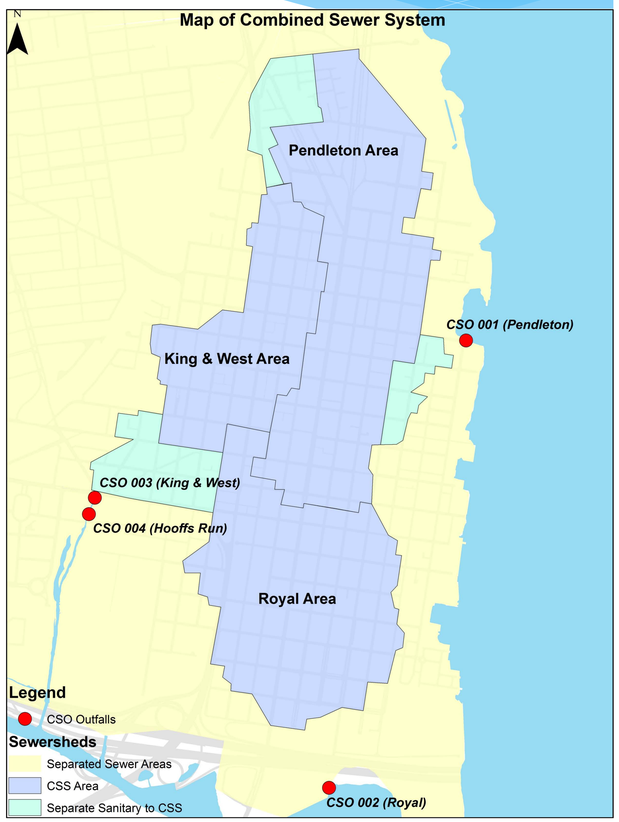
Targeted Separation





Tunnels

Combined Sewer Overflows (CSOs)



Alexandria's Four Outfalls

Oronoco Bay

Jones Point

Duke St. & Hooffs Run

For more information about this display or the Alexandria sewer system, contact:

City of Alexandria
Department of Transportation and Environmental Services
Division of Environmental Quality
301 King Street, Room 4100
Alexandria, VA 22314
Phone: 703-746-4065

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10

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CITY OF ALEXANDRIA
DEPT OF TRANP & ENVIRON SERVICES
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ALEXANDRIA, VA 22314

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Date: 01/07/15
Due Date: 02/06/15

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21 Announcements 21 Announcements 21 Announcements 21 Announcements 21 Announcements 21 Announcements 21 Announcements

OBITUARY

WALTER BRYANT DORSEY III

Mr. Walter B. Dorsey III, was born February 16th, 1988 in Leonardtown, Maryland. He was shot and killed in an apparent robbery/homicide in Los Angeles, California on December 11th, 2014. Walter was born and raised in St. Mary's County, Maryland and attended college in Florida where he studied Alternative Health Sciences before heading out West. He resided in Venice and Mountain Center, California where he practiced organic farming licensed by the State of California for the last five years of his life.

He was particularly fond of the mountains and beaches of California and the Chesapeake Bay and its tributaries. He enjoyed boating, hiking, surfing and working on his California Ranch. He had a special gift and desire to heal which he utilized for the benefit of others. Walter touched many lives in his travels and will forever be remembered as the pirate. Aside from his extended family Walter left behind so many beautiful women, friends and people he considered family...

He was the son of Philip H. Dorsey III and Donna Dorsey of Leonardtown, Md. and Alexandria, Virginia. He is survived by his

OBITUARY

David James Cappelletti

Beloved son, brother, uncle, godson, and friend.

David Cappelletti, 25, died at his childhood home on December 23, 2014, following a two-year battle against brain cancer. Born on July 8, 1989 in Washington D.C., David is survived by his mother, Susan Green, of Alexandria, Virginia; his sisters, Allison, of Pittsburgh, Pennsylvania and Juliet (Sky), of Largo, Florida; his brother, Mike, of Delray Beach, Florida; his niece, Sierra, of Largo, Florida; his godparents, Walt and Kathie Walvick, of McLean, Virginia; and many friends. His father, Michael, preceded him in death.

David attended Ft. Hunt elementary and Carl Sandburg middle school and graduated in 2007 from West Potomac High School where he was a member of the marching band, wind ensemble and jazz band, and the crew team. He attended George Mason University, majoring in government and international politics, and volunteered his time throughout the 2012 election cycle. During college, David worked at AutoDocs, LLC in computer

Public Meeting on the City of Alexandria's Combined Sewer System Long Term Control Plan Update

When: 7-9 p.m. on Thursday, February 5, 2015
Where: City Hall, 301 King Street
Sister Cities Room 1101

Find out about the City's Combined Sewer System (CSS) and the City's upcoming plan to meet new water quality regulations and to reduce the impacts of Combined Sewer Overflows (CSOs) on receiving waterways. Residents are invited to give written or oral comments at the public meeting.

For more information about the City's CSS, visit alexandriava.gov/Sewers.

For questions, contact Erin Bevis-Carver, P.E., Sanitary Section Lead, Transportation & Environmental Services at Erin.BevisCarver@alexandriava.gov.

21 Announcements 21 Announcements

OBITUARY

Mrs. Corinne Swanson..On December 17, 2014 in Alexandria, VA. Born in Duluth, MN, she moved to the Washington DC area in 1961. Having served in the United States Marine Corps from 1951-1952, she married James Robert Swanson in 1952 and they were married for 33 years before he passed away in 1986. Together they had seven children. She was preceded in death by her husband and son, James Gregory Swanson. She is survived by her six daughters, Susan (Bill) Von Peters, Catherine Swanson, Corinne (Bill Roscoe) Swanson, Patricia (Frank) Jozsa, Theresa (Kevin) Wagner, Paula Swanson; 21 grandchildren; 26 great grandchildren; brothers, Edward, Kenneth, and Gregory Cullen; numerous nieces, nephews, and their families. Family and friends gathered on Sunday, December 28, 2014 from 2-5 p.m. at Everly-Wheatley Funeral Home, 1500 W. Braddock Rd., Alexandria, VA 22302 where funeral services were held on Monday, December 29 2014 at 10 a.m. Interment will follow at Quantico National Cemetery. A guest register may be found at www.everlywheatley.com

21 Announcements 21 Announcements

LEGAL NOTICE

Sealed proposals for the City of Alexandria per specifications will be received in the office of the

OBIT

Margaret Ste

On December 31st, 201
Slappey, 67, native of A
in her sleep from natura
will be remembered for
selfless nature, her lovi
all kind heart.
She was the daughter o
Slappey and the late St
In addition to her mothe
brother and sister-in-law
and Blanche Willoughby
Louisa Slappey.
The family suggests any
made in her memory to
Church at 228 South Pit
VA 22314.
Please sign our online g
www.foxandweeks.com

21 Announcements

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City of Alexandria
Public Meeting

Combined Sewer System Long Term Control Plan Update

Thursday, June 18, 2015
7 - 9 p.m.

City Hall, Chet and Sabra Conference Room 2000
301 King Street, Alexandria, VA 22314

The City's Department of Transportation and Environmental Services is hosting a public meeting and inviting public comments related to the City's Combined Sewer System (CSS) and its impacts on surface waters along with the City's planning efforts to meet new regulations pertaining to combined sewer overflows. The City's CSS Permit requires the inclusion of community input in developing the update to the City's Long Term Control Plan for its CSS.

Give your written or oral comments at the public meeting. For more information or questions regarding the upcoming meeting, please contact Erin Bevis-Carver, P.E., Sanitary Section Lead, Transportation and Environmental Services at 703.746.4154 or Erin.BevisCarver@alexandriava.gov.

This meeting is open to the public. The City of Alexandria is committed to compliance with the Americans with Disabilities Act, as amended. To request a reasonable accommodation, email Geralyn.Taylor@alexandriava.gov or call 703.746.4084, Virginia Relay 711.

CITY OF ALEXANDRIA VIRGINIA

Appendix N

Public Meetings

#	Date	Presentation Title	Audience	Agenda
1	1/27/2015	Combined Sewer System Long-Term Control Plan Update	City Council Legislative Session	Update on City's planning efforts including legal mandate, project status (overview of CSO control strategies and evaluation criteria) ongoing outreach, goals and objectives of LTCPU Phase I Public Meeting
2	1/28/2015	Combined Sewer System Permit and Long-Term Control Plan Update	Federation of Civic Associations	LTCPU Phase 1 Outreach – CSS overview, new regulations, progress on long-range planning efforts, implementation and financing, Feb 5 Phase I meeting
3	2/2/2015	Combined Sewer System Permit and Long-Term Control Plan Update	Environmental Policy Commission	LTCPU Phase 1 Outreach – CSS overview, new regulations, progress on long-range planning efforts, implementation and financing, Feb 5 Phase I meeting
4	2/5/2015	Combined Sewer System Permit and Long-Term Control Plan Update	LTCPU Phase I Public Meeting	LTCPU Phase I Public Meeting – CSS overview, new regulations, investing in infrastructure (CSO technologies and evaluation criteria), next steps, public participation and input
5	2/11/2015	Combined Sewer System Permit and Long-Term Control Plan Update	Old Town Civic Association	LTCPU Phase I Outreach – CSS overview, new regulations, investing in infrastructure (CSO technologies and evaluation criteria), next steps, public participation and input
6	3/18/2015	Combined Sewer System Permit and Long-Term Control Plan Update	NorthEast Citizens' Association	LTCPU Phase I Outreach – CSS overview, new regulations, investing in infrastructure (CSO technologies and evaluation criteria), next steps
7	5/18/2015	Combined Sewer System Long Term Control Plan Update	Environmental Policy Commission	LTCPU Phase II Outreach – CSS mandate, LTCPU planning process, LTCPU control strategy rankings (shortlist presentation), discussion and input (green), next steps, upcoming outreach (Council work session and Phase II public meeting)
8	5/19/2015	Combined Sewer System Long Term Control Plan Update	Waterfront Commission	Overview of CSS, new regulatory requirements, LTCPU overview, upcoming outreach (Council work session and June 18 Phase II meeting)
9	5/26/2015	Combined Sewer System Long Term Control Plan Update	City Council Work Session	CSS mandate, LTCPU planning process, project status (evaluation criteria, combined sewer control strategy rankings), recommended short list of strategies, next steps (LTCPU, collaboration with partners, public outreach)

#	Date	Presentation Title	Audience	Agenda
10	6/11/2015	Combined Sewer System Long Term Control Plan Update	West Old Town Citizens Association	LTCPU Phase II Outreach – Background (CSS overview and regulatory drivers), CSO control strategies, evaluation process, ranking and shortlist, next steps, June 18 Phase II meeting
11	6/18/2015	Combined Sewer System Long Term Control Plan Update	LTCPU Phase II Public Meeting	LTCPU Phase II Public Meeting – Background (CSS overview and regulatory drivers), CSO control strategies, evaluation process, ranking and shortlist, next steps, public participation and input
12	10/7/2015	CSS Stakeholder Group Meeting #1	CSS Stakeholder Group	LTCPU – Purpose and Goals, City's Combined Sewer System (CSS), Investing in Infrastructure (CSO Strategies, Evaluation Process, CSO Strategies Ranking and Shortlist)
13	11/2/2015	CSS Stakeholder Group Meeting #2	CSS Stakeholder Group	LTCPU – CSO Control Strategies Ranking and Shortlist, Group Consensus Process and Questions for Today, Green Infrastructure Overview and Strategy

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