

# **Narragansett Bay Commission**

## **2014 Data Report**



**Prepared by the Staff of the Environmental  
Monitoring & Data Analysis Section**

**April 1, 2015**

## Narragansett Bay Commission

<u>Introduction</u>	<u>Page</u>
The Narragansett Bay Commission	1
Environmental Monitoring and Data Analysis Program Overview	2
Acknowledgements	4
 <b><u>Field's Point and Bucklin Point WWTF Sample Collection Methodology and Practices</u></b>	
Introduction	6
Collection of Samples at Field's Point and Bucklin Point	7
Composite Sampling at Field's Point	8
Composite Sampling at Bucklin Point	9
Sample Collection for Total Suspended Solids (TSS), Biological Oxygen Demand (BOD) and Fecal Coliform Analyses at Field's Point and Bucklin Point	10
Sample Collection for Trace Metals and Cyanide Analyses at Field's Point and Bucklin Point	11
Sample Collection for Nutrients Analysis at Field's Point and Bucklin Point	12
Sample Collection for Oil and Grease Analysis at Field's Point and Bucklin Point	13
Sample Collection for Effluent Dissolved Metals Analysis at Field's Point and Bucklin Point	13
Collection of Final Effluent for Quarterly Bioassay Analyses	14
Sample Collection for Sludge Analysis at Field's Point and Bucklin Point	15
Sample Collection for EPA Priority Pollutants/Volatile Organic Compounds (VOCs)	15
Sanitary Manhole Sampling	15
Significant Industrial User (SIU) Sampling	16
Septage Sampling	17

## **NBC Receiving Waters Monitoring Initiatives**

Introduction	19
River and Bay Nutrient Monitoring	21
Urban River Pathogen Monitoring	25
Bay Pathogen Monitoring	28
Combined Sewer Overflow Monitoring	29
Benthic Video Monitoring	30
Narragansett Bay Fixed-Site Water Quality Monitoring	32
NBC Snapshot of Upper Narragansett Bay Website	37

## **Figures**

## **Page**

Figure 1: NBC River Nutrient Sampling Stations	22
Figure 2: NBC Bay Nutrient Sampling Stations	24
Figure 3: NBC River Bacteria Sampling Stations	26
Figure 4: NBC Bay Bacteria Sampling Stations	29
Figure 5: Benthic Video Transect Locations	31
Figure 6: NBC Fixed Site Water Quality Monitoring Stations	33
Figure 7: NBC's Snapshot of Upper Narragansett Bay Website	37

## **Tables**

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data
Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data
Table 3: Field's Point Enterococci Data
Table 4: Bucklin Point Enterococci Data
Table 5: Field's Point Influent Metals and Cyanide (Cd-CN)
Table 6: Field's Point Influent Metals (Al-Mo)
Table 7: Field's Point Effluent Metals and Cyanide (Cd-CN)
Table 8: Field's Point Effluent Metals (Al-Mo)
Table 9: Bucklin Point Influent Metals and Cyanide (Cd-CN)

Table 10: Bucklin Point Influent Metals (Al-Sn)  
Table 11: Bucklin Point Effluent Metals and Cyanide (Cd-CN)  
Table 12: Bucklin Point Effluent Metals (Al-Sn)  
Table 13: Field's Point Influent and Effluent Nutrients  
Table 14: Bucklin Point Influent and Effluent Nutrients  
Table 15: Bucklin Point and Field's Point Oil and Grease Data  
Table 16: Field's Point Effluent Dissolved Metals  
Table 17: Bucklin Point Effluent Dissolved Metals  
Table 18: Field's Point Bioassay Data  
Table 19: Bucklin Point Bioassay Data  
Table 20: Field's Point Sludge Analysis  
Table 21: Field's Point Sludge Summary  
Table 22: Bucklin Point Sludge Analysis  
Table 23: Bucklin Point Sludge Summary  
Table 24: EPA Priority Pollutants Data Field's Point  
Table 25: EPA Priority Pollutants Data Bucklin Point  
Table 26: Sanitary Manhole Sampling Data  
Table 27: NBC Significant Industrial User Sample Results  
Table 28: Septage Sampling Data  
Table 29: Septage Summary 1996-2014  
Table 30: River and Bay Nutrients Data  
Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data  
Table 32: Moshassuck, Blackstone and Pawtuxet Rivers Fecal Coliform Data  
Table 33: Bay Fecal Coliform Data  
Table 34: Bay Enterococci Data  
Table 35: CSO Wet Weather Overflow North Diversion Structure CSO 02A  
Table 36: CSO Wet Weather Overflow Sheridan Street CSO 56A  
Table 37: CSO Wet Weather Overflow Bucklin Brook CSO 220

# *Introduction*

## *The Narragansett Bay Commission*

The Narragansett Bay Commission (NBC) was created in 1980 by the Rhode Island General Assembly to reduce the amount of pollutants Providence's Field's Point Wastewater Treatment Facility (WWTF) was discharging into Narragansett Bay and its tributaries. At that time, nearly 65 million gallons of untreated sewage flowed into Rhode Island's waterways every day, resulting in temporary and permanent closures of shellfishing beds in upper Narragansett Bay, violations of federal laws, and most importantly, a serious threat to public health and the region's environmental and economic well-being.

The NBC acquired the facility from the City of Providence in 1982 and with statewide voter approval of an \$87.7 million bond referendum; the NBC transformed this dilapidated facility, the third oldest wastewater treatment plant in the nation, into a state-of-the-art award winning facility. As the largest secondary wastewater treatment facility in Rhode Island and the second largest in New England, the Field's Point WWTF provides preliminary and primary treatment for up to 200 million gallons per day (MGD) of wastewater, secondary treatment for up to 91 MGD, and had an average daily flow to the facility of 42.8 MGD in 2014. Construction of biological



*NBC EMDA staff Collecting a Phytoplankton Sample aboard the R/V Monitor*

nutrient removal upgrades have been completed at Field's Point, and a new seasonal May through October total effluent nitrogen limit of 5.0 mg/l went into effect in May 2014. Under this new permit limit, the seasonal May through October total nitrogen average for 2014 was 3.4 mg/l.

In 1992, the Rhode Island General Assembly expanded the NBC's mission by placing it in charge of the Bucklin Point WWTF in East Providence. This facility is designed to provide preliminary and primary treatment for up to 116 MGD, secondary treatment for up to 46 MGD, and had an average daily flow to the facility of 21.2 MGD in 2014. During 1999, supervisory management of this plant was privatized to Professional Services Group (PSG), and is currently managed by Suez Environment/United Water. In the last several years the plant has undergone major upgrades to include new screening and grit facilities, wet weather facilities capable of providing primary treatment and disinfection, new fine bubble-diffusion aeration system, nutrients removal facilities, and ultraviolet disinfection of wastewater, eliminating the need to add chemicals to disinfect and dechlorinate wastewater prior to discharge. Biological nutrient removal upgrades were completed at Bucklin Point in order to meet a seasonal May through October permit limit of 5.0 mg/l total effluent nitrogen, which went into effect on July 14<sup>th</sup>, 2014. The seasonal May through October total effluent nitrogen average for 2014 was 4.0 mg/L.

The NBC now owns and operates the state's two largest WWTFs and provides quality wastewater collection and treatment services to about 360,000 persons and 7,700 commercial and industrial customers located in Providence, North Providence, Johnston, Pawtucket, Central Falls, Cumberland, Lincoln, the northern portion of East Providence, and small sections of Cranston and Smithfield.

### **Environmental Monitoring and Data Analysis Program Overview**

The Environmental Monitoring and Data Analysis (EMDA) section evolved from the Pretreatment section, where prior to 1992, two Engineering technicians, assisted by Pretreatment staff, implemented the industrial and manhole monitoring activities. With the acquisition of the Bucklin Point WWTF in 1992, there were two separate and distinct Pretreatment programs, one for each treatment facility. Shortly thereafter, the two Pretreatment programs were united and the EMDA section was created within the NBC Planning, Policy and Regulation Division. Over the years, the EMDA section has evolved and is now responsible not only for industrial and manhole monitoring activities, but for all aspects of environmental monitoring for the NBC. EMDA staff conduct compliance monitoring for both treatment plants, river monitoring to support NBC's Interceptors and Maintenance section in their efforts to quickly locate and stop dry weather discharges of Combined Sewer Overflows (CSO); monitoring of the upper Bay for fecal coliform contamination to determine the effects of NBC CSOs on this area of the Bay and as support to NBC Engineering staff to assess the effectiveness of the CSO abatement tunnel project; river and upper Bay monitoring for nutrients to assess the impact of NBC nutrient removal upgrades, video monitoring of the upper Bay benthos to assess ecological changes over time, sampling of suspected hazardous waste found in sewers during routine line cleanings and in other NBC facilities during decommissioning and demolition activities, and other sampling as needed. EMDA staff also conducts many sampling initiatives to evaluate effectiveness of new technologies, such as nutrient removal and ultraviolet disinfection.

In 2002, the NBC was awarded a grant from the United States Environmental Protection Agency (EPA) to develop a website to provide real-time data of the upper Bay receiving waters of the NBC plant outfalls. A fixed-site station was constructed at an abandoned pier at Phillipsdale Landing in East Providence, and a state-of-the-art monitoring buoy was acquired and deployed at Bullock's Reach, just north of Conimicut Point in upper Narragansett Bay. These sites provided invaluable data to the Rhode Island Department of Environmental Management (DEM) and the scientific community over the past several years and played a key role to these stakeholders in their investigation to understand the August 2003 fish kills associated with hypoxic events in Narragansett Bay. As a result of these fish kill events, the Governor established a Bays, Rivers



*NBC Chemist Preparing to Analyze Nutrient Samples*

and Watershed Coordination Team, of which the NBC is a member. The NBC is also a valuable contributing member of the Rhode Island Environmental Monitoring Collaborative, a subgroup of the Coordination Team formed by Governor Carcieri. The NBC coordinates monitoring activities with other agencies performing monitoring statewide, and as a result the NBC EMDA section's role in environmental monitoring and compliance issues continues to expand as compliance issues become ever more complex.

The EMDA Section continues to perform the following monitoring activities:

- Daily sampling of NBC's two plants to satisfy Rhode Island Pollutant Discharge Elimination System (RIPDES) requirements;
- Sampling of each Significant Industrial User at least twice annually to satisfy and exceed EPA Pretreatment Program mandates;
- Weekly monitoring of surveillance manholes to satisfy EPA mandates;
- Monitoring of sanitary manholes to obtain data required for local limits development;
- Weekly sampling of the urban rivers for bacteria analysis;
- Sampling of 19 locations in the NBC receiving waters of the Providence and Seekonk Rivers for bacteria analysis;
- Bimonthly sampling of rivers entering the upper Bay from Massachusetts and Rhode Island for nutrients;
- Sampling of 7 locations at surface and bottom in the Providence and Seekonk Rivers for nutrients;
- Mapping of the Providence and Seekonk Rivers for chlorophyll, DO, temperature and salinity;
- Video surveys of the upper Bay benthos to track changes in algae growth, species occurrences and other indicators of environmental health;
- Special project sampling for the NBC Engineering, Operations and other sections to assist in facilities planning, improvements to plant operations, etc.;
- Routine maintenance of the Fixed-Site Water Quality Monitoring buoy and land-based dock station to ensure accurate data for state partners and the public.

The NBC EMDA section has always done an excellent job of implementing monitoring initiatives; however, in the past, the public has had to specifically request data results of the NBC's sampling activities. In 2005, an annual report summarizing the 2004 monitoring data and activities of the NBC EMDA section was published. This was a great accomplishment to be able to disseminate all of the monitoring data collected by EMDA and provide statistical analyses and discern trends and fluctuations in the data over time; however, because of the vast body of data collected and analyses that were done for each data set, this type of report became too large and cumbersome to create yearly. Therefore, in order to get the data to the public sooner, a more streamlined presentation of data was created for monitoring results for each year since 2007. This report serves as a format for public dissemination of all 2014 EMDA monitoring data.

### **Acknowledgements**

This report has been prepared by the staff of the EMDA section, under the general direction of Thomas P. Uva, Director of Planning, Policy and Regulation (PP&R). This report is a summation of the collective efforts by the Environmental Monitors and Monitoring Field Supervisors that collected in excess of 29,206 samples during 2014. It represents the countless hours of processing, compiling, analyzing and interpreting all the data by the Environmental Scientists and Assistant Manager, and data entry and general assistance by clerical staff.



The laboratory staff analyzed all of the samples collected by the EMDA section. In total, during 2014, the Laboratory generated 110,686 analyses from the samples it received. A special acknowledgement and thank you to the NBC EMDA, Laboratory, and other PP&R staff that made this report possible:

*John Motta*

Environmental Monitoring  
Manager

*Christine Comeau, Eliza Moore,  
Pamela Reitsma*

Environmental Scientists

*Brandi-Lyn Colacone, Michael Golenia,  
Stephen DePasquale, Michael Giammarco*

Environmental Monitors

*Joanne Parker*

Data Clerk

*Walter Palm*

Laboratory Manager

*Lauren Lessuck*

Senior Organic Chemist

*Nora-Jean Lough*

Biologist

*Kim Sandbach, Kara Taglianetti*

Environmental Chemists

*Leslie Ahlborg, William Beaudry, Kerri Houghton,*

*Robert Noonan, Ralph Ruggiano*

Laboratory Technicians

*James Kelly*

Assistant Environmental Monitoring  
Manager

*Sara Nadeau, Rebecca Songolo,  
Jeffrey Tortorella*

Monitoring Field Supervisors

*Fern Johnson, Amanda Kezirian*

*David Thacker, Kevin Wilcox*

Environmental Monitors

*Olga Shirzadi*

EMDA Clerk

*Angelina Glater*

Assistant Laboratory Manager

*Elizabeth Teixeira*

Senior Environmental Chemist

*Edward Davies*

Lab Sample Compliance Coordinator

*Janet Luu, Ryan Sullivan*

Chemists

*Katherine Archambault*

Laboratory Clerk

The NBC also acknowledges the support given to the EMDA section by the NBC Chairman, Commissioner Vincent J. Mesolella, the Board of Commissioners, the Executive Director, Raymond Marshall, and all the NBC Directors.

## ***Field's Point and Bucklin Point WWTF Sample Collection Methodology and Practices***

### **Introduction**

It is the Narragansett Bay Commission's (NBC) mission to protect and enhance the water quality of Narragansett Bay and its tributaries through careful collection and treatment of wastewater from residences, businesses, and industries in the NBC District. The Environmental Monitoring and Data Analysis (EMDA) section's primary objective is to perform routine and adequate sampling of a wide variety of parameters to ensure that both the Field's Point and Bucklin Point Wastewater Treatment Facilities (WWTF) are effectively meeting operational and Rhode Island Pollutant Discharge Elimination System (RIPDES) permit requirements. An extensive sampling schedule employing composite and grab samples within the two wastewater treatment facilities at the raw influent, primary influent, primary effluent, mixed liquor, return activated sludge, final sludge, and final effluent are necessary to keep abreast of what is introduced to and discharged from each plant, and the removal efficiencies of all conventional and non-conventional pollutants. Synthesis of this data is a continuous and ongoing process with monthly evaluations required for RIPDES discharge monitoring reports as well as periodic evaluation of the local limits that the pretreatment section uses to regulate industrial and commercial users (SIU) and ensure that no upset, pollutant pass-through, process interference, or discharge permit limit violations occur. Clean sampling and sample-handling techniques, high quality laboratory measurements, and ease of access to this data are the necessary ingredients to providing accurate data to quickly identify potential problems within the plant, and to routinely reassess the removal efficiency of pollutants. All sample collection, preservation, and storage at the Field's Point and Bucklin Point WWTFs are performed with strict adherence to United States Environmental Protection Agency (EPA) protocols. The current RIPDES permits require sampling of the influent and effluent wastewater streams at the Field's Point and Bucklin Point WWTFs for toxic and conventional pollutants on a regular basis.

NBC's continuing goal is to improve receiving water quality by limiting the impact of WWTF effluent on Narragansett Bay. The NBC has analyzed and tracked the toxic pollutant loading trends at its treatment facilities since the creation of the agency. EMDA works in conjunction with the Pretreatment, Laboratory, Operations, and Engineering Sections of NBC to conduct sampling of wastewater from its sources, throughout its collection and treatment systems, and ultimately to its final fate as either sludge or as effluent in Narragansett Bay. In support of NBC's mission and RIPDES requirements, the EMDA section collected 29,206 samples and the NBC lab analyzed these samples for 110,686 parameters during 2014. WWTF sampling data for 2014 are attached and can be found in Tables 1–37. Table numbers are also referred to in each section below.

## *Collection of Samples at Field's Point and Bucklin Point*

Samples collected to evaluate the WWTF process are either composite samples collected over a particular time period or grab samples. Composite samples are formed by combining discrete samples taken at periodic points in time. Refrigerated ISCO autosamplers are used throughout Field's Point and Bucklin Point to collect composite samples on a regular predetermined basis. All refrigerated autosamplers are kept at 4°C. Grab samples are discrete samples collected at particular time periods but placed into separate sample bottles and analyzed as individual samples. The differences in sampling between Field's Point and Bucklin Point mainly exist in the influent sampling at the interceptors into the facility and in the retention time used to determine when influent and effluent samples are collected. Field's Point influent samples are collected on a time-paced basis at the single interceptor that feeds the facility, after bar screening and prior to grit removal tanks. When samples are collected for metals or nutrient analysis, the influent and effluent samples are collected 12-hours apart with the goal of sampling the same parcel of water as it enters the plant for treatment and after treatment to evaluate the performance of the plant. For biological oxygen demand (BOD) and total suspended solids (TSS), the influent and effluent samples are collected without any time offset. Bucklin Point influent samples are collected on a time-paced basis from the two interceptors that feed the facility, the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI). Composite samples are



*Autosamplers at Field's Point*

collected from both interceptors and mixed flow-proportionally. Influent and effluent samples are collected 17-hours apart with the goal of sampling the same parcel of water as it enters the plant for treatment and after treatment to evaluate the performance of the plant. At both facilities, final effluent sample collections are time-paced and downstream of all treatment processes. The final effluent represents wastewater after complete treatment just prior to entering the receiving waters of the Providence or Seekonk River. Collection of the final effluent sample at Field's Point takes place after chlorination and dechlorination of the wastewater, in the outfall channel downstream of the chlorine contact tank. The final effluent sample at Bucklin Point is collected downstream of the UV chamber in the UV building. The following are more detailed descriptions of composite sampling at both WWTFs.

### **Composite Sampling at Field's Point**

Composite sampling at Field's Point is done on a time-paced basis. All composite samplers sample the waste stream at 30-minute intervals and take a volume of 100 mL. The samples collected are time-paced, 24-hour composites of the wastewater at a sampling location.

EMDA uses refrigerated ISCO 3700, ISCO 4700, and ISCO 6712 programmable autosamplers. The samplers are located at the influent/grit building, primary influent, primary effluent, mixed liquor east and mixed liquor west, wet weather tank influent and effluent, and final effluent. Temperatures of the samplers are always maintained at 4 °C (acceptable range is 1-6 °C). The influent daily/metals, primary effluent, effluent daily, and back-up samplers are configured for 24-hour time-paced composite sampling.

Two types of suction tubing are used for sampling at the Field's Point WWTF. Influent and effluent peristaltic samplers collecting trace metals samples use suction tubes lined with Teflon<sup>®</sup>. Teflon<sup>®</sup> has characteristics that enable it to be cleaned to trace-metal grade. Extra care is required in handling this tubing to prevent cracking due to its brittle nature. Peristaltic samplers not collecting trace metals samples use Tygon<sup>®</sup> tubing as suction lines. This tubing is much more resilient and pliable. The Teflon<sup>®</sup> and Tygon<sup>®</sup> suction lines both measure ½-inch in outer diameter and ⅜-inch in inner diameter. Sampler suction lines are changed semi-annually and pump tubing changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon<sup>®</sup> and Tygon<sup>®</sup> suction line and pump tubing of the auto samplers weekly. This procedure takes place at the auto sampler collection site. The Teflon<sup>®</sup> tubing is also acid washed monthly.

The EPA released a report in 1994 assessing historically-used trace metals sampling procedures. The report found that the levels of contamination from the sampling/vessel cleaning process resulted in metals levels higher than the bodies of water being sampled. Following the report, the EPA developed a series of recommended sampling techniques for clean sampling that EMDA follows specifically. For influent/grit building and final effluent autosamplers that collect wastewater analyzed for trace metals and nutrients, these clean sampling methods are used to reduce contamination. The method requires acid cleaning of composite containers prior to use, and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper

cleaning. A Nalgene polyethylene carboy is used to collect composite samples for analyses of these parameters.

### **Composite Sampling at Bucklin Point**

Composite sampling at Bucklin Point is time-paced. Composite sampling takes place at the Influent, Primary Effluent and Final Effluent (FE). Composite samples from the Blackstone Valley Interceptor (BVI) and the East Providence Interceptor (EPI) are combined and analyzed together for all parameters. The autosamplers sample the wastestream at 30-minute intervals and take a volume of 100 mL. The samples collected are time-paced, 24-hour composites of the wastewater at a sampling location.

All autosamplers used at the Bucklin Point WWTF are refrigerated peristaltic pump samplers. Autosamplers used include the ISCO sampler models 3700, 4700, 6712, and Sigma sampler model 9000. These samplers are located at BVI, EPI, primary influent, primary effluent, mixed liquor, final effluent, and wet weather effluent. Composite samples from the BVI and EPI are combined and analyzed together for all parameters. All sample locations use the ISCO samplers, except for the primary treatment effluent which uses the Sigma sampler. Temperatures of the refrigerated samplers are always maintained at 4 °C (acceptable range is 1-6 °C) and their temperature is documented three times per day by EMDA staff. Each composite carboy container has been marked with a permanent marker to identify the sampling location at which it is used.

Influent and effluent peristaltic samplers collecting samples for trace metals use special suction tubes lined with Teflon<sup>®</sup>. Teflon<sup>®</sup> has characteristics that enable it to be cleaned to trace-metal grade. Extra care is required in handling this tubing to prevent cracking due to its brittle nature. Peristaltic samplers not collecting trace metals samples use Tygon<sup>®</sup> tubing as suction lines. This tubing is much more resilient and pliable. The Teflon<sup>®</sup> and Tygon<sup>®</sup> suction lines both measure ½-inch in outer diameter and ⅜-inch in inner diameter. Sampler suction lines are changed semi-annually and pump tubing changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon<sup>®</sup> and Tygon<sup>®</sup> suction line and pump tubing of the autosamplers weekly. This procedure takes place at the autosampler collection site. The Teflon<sup>®</sup> tubing is also acid washed monthly.

As mentioned above for Field's Point, Bucklin Point also uses the EPA-recommended clean sampling techniques for sample collection of wastewater for metals and nutrients analyses. The clean sampling method requires acid cleaning of composite containers prior to use and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper cleaning. A Nalgene polyethylene carboy is used to collect composite samples for analyses of these parameters. Cleaning and handling of samplers, pump and suction tubing, and composite carboys are also outlined in the following sections under the specific parameters analyzed.

## **Sample Collection for Total Suspended Solids (TSS), Biological Oxygen Demand (BOD) and Fecal Coliform Analyses at Field's Point and Bucklin Point**

NBC's RIPDES permits require sampling of TSS and BOD daily using 24-hour composites at both the influent and effluent. As stated above, the influent and effluent samplers collect samples from the waste stream at 30-minute intervals. Carboys with collected sample water are brought to the NBC laboratory for analyses every morning around 08:00. EMDA staff cleans sample

carboys used for TSS and BOD collections in the dishwasher after each use and carboys are replaced as necessary. Tygon<sup>®</sup> tubing is used with these samplers. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing weekly. Sampler suction lines are changed semi-annually and pump tubing changed every month.

At the Field's Point WWTF, two grab samples are taken at the effluent per flow day for fecal coliform bacteria analyses. EMDA staff takes the first fecal coliform sample at 08:00; operations staff takes the second sample in the time frame of 03:00-05:00. The final fecal coliform value for that day is a geometric mean of the two grab samples as well as any duplicate samples or extra samples collected that day. At the Bucklin Point WWTF, four effluent grab samples are taken throughout the day for fecal coliform bacteria. A geometric mean is then determined from these results and any duplicate or extra samples and is assigned as the fecal coliform value for that day. The procedure for fecal coliform sampling at both WWTFs is as follows:

- Wearing new, clean Nitrile gloves, place sample container in sampling device (an open-ended PVC cylinder with the bottle held in place by a small screw running through the cylinder body. A line is attached to the cylinder body for lowering into the water)
- Open the sterile 250-ml container. Do not use if seal is broken before opening. Make sure that the sodium thiosulfate pellet remains in the bottle throughout the collection process. This chemical neutralizes residual chlorine if present.
- Place sampling device into the center of the stream, 6 inches below surface, to collect sample.
- Container must be filled to the "EPA FILL LINE".
- Remove coliform bottle from the sampling device and close container.
- Secure and seal the sample cover.
- Place label on container with time, date, collector's initials, and the operator-collected TRC value in ppm.
- Place sample in cooler with ice and transport directly to NBC laboratory.

In 2010, based upon information from the DEM that our forthcoming new RIPDES permits are likely to include effluent limitations for enterococci rather than fecal coliform, a study was initiated to analyze every plant bacteria sample for both fecal coliform and enterococci in order to evaluate plant performance against the expected new permit limits of 35 MPN/100 mL monthly geometric mean and 276 MPN/100 mL daily maximum geometric mean. The daily maximum limit could vary considerably depending on how the DEM characterizes the receiving waters of the NBC effluent. If the receiving waters are deemed "Moderate full body contact recreation" then the limit would be 124 MPN/100 mL. If they are deemed "Lightly used full

body contact recreation” then 276 MPN/100 mL would be the limit. If “Infrequently used full body contact recreation” is designated then the limit would be 500 MPN/100 mL.

TSS, BOD, and fecal coliform data for 2014 can be found in the attached Tables 1 and 2. Enterococci data can be found in Tables 3 and 4.

### **Sample Collection for Trace Metals and Cyanide Analyses at Field’s Point and Bucklin Point**

Toxic pollutant monitoring requirements include 24-hour composite sample collections for the analysis of copper, mercury, nickel, silver, zinc, and cyanide at Field’s Point and copper, lead, mercury, nickel, silver, zinc, hexavalent chromium, and cyanide at Bucklin Point. Other metals that are analyzed for but are not required by the RIPDES permits include arsenic, aluminum, cadmium, iron, selenium, molybdenum, and tin. Metals and cyanide measurements are required twice-weekly at both plants except for arsenic, selenium, and molybdenum which are collected once per week in the influent and once per month in the effluent. In October of 2014, arsenic analysis was increased to two times per week in anticipation of new arsenic limits in the next permit. Metals and cyanide data for 2014 can be found in the attached Tables 5-12.

The current method for collection of cyanide at both Field’s Point and Bucklin Point mandates nine grab samples to be collected over a 24-hour period, separated by a minimum of two hours. The autosamplers collect discrete samples for cyanide analysis into one-liter containers that are pre-preserved with sodium hydroxide. These samplers collect a 300 mL sample every two hours for 48 hours, once per week. At Bucklin Point, composite samples for cyanide and metals at the influent are collected from both interceptors, the BVI and EPI and are composites of nine separate grab samples at each location. These samples are mixed flow-proportionally. At both plants, nine of the twelve grab samples from the twenty-four hour sampling period are composited into a 2-liter HDPE bottle. The pH is tested to ensure it is greater than 12 standard units (s.u.) before compositing. The composite is poured off into a 500-mL brown HDPE bottle.

For influent and final effluent autosamplers that collect wastewater analyzed for trace metals, special clean sampling methods are used to reduce contamination. The method requires acid cleaning of composite containers prior to use, and acid cleaning of suction and pump tubing. Blanks are collected to monitor and verify proper cleaning. A 15-liter Nalgene<sup>®</sup> polyethylene carboy is used to collect composite samples. Carboy cleaning procedures and quality assurance measures are in place to ensure clean and proper sampling. Acid-washed carboys are put into place twice weekly at the influent and effluent to collect samples to be tested for trace metals and nutrients; this is in conjunction with the samples collected for cyanide. Monthly post-cleaning blanks are collected from the acid-washed carboys to ensure the success of the cleaning procedure. These blanks are collected by adding deionized (DI) water to a cleaned carboy, swirling the DI water in the carboy, and letting it sit overnight refrigerated. The DI water is then poured off into pre-labeled, pre-cleaned containers for analysis of parameters of interest.

Field blanks are taken each time a sample is collected for mercury at both Field’s Point and Bucklin Point. The procedure for collecting a field blank consists of transporting sufficient DI

water into the field and collecting a sample using identical sampling and preserving procedures that are used in collecting the mercury sample.

### **Sample Collection for Nutrients Analysis at Field's Point and Bucklin Point**

Permit requirements for nutrients were modified by the DEM during 2005 as part of new nutrient permit limits issued to reduce the amount of nitrogen discharged to Narragansett Bay. The permit requirements mandated monitoring of nitrate, nitrite, and total kjeldahl nitrogen (TKN) three times per week. Ammonia monitoring permit requirements remained at twice weekly, but NBC has sampled all nutrient parameters three times per week since August 1, 2005. Seasonal effluent discharge limits of 5 ppm for total nitrogen were proposed in the 2005 RIPDES permit modification. In June 2006, a consent agreement was signed, which imposed a seasonal interim effluent permit limit of 18.2 ppm for total effluent nitrogen at Field's Point and 10.0 ppm for Bucklin Point. In May 2009, the DEM modified the consent agreement for Bucklin Point to impose a seasonal interim total effluent nitrogen limit of 8.5 ppm. NBC worked diligently to maximize nitrogen removal at Bucklin Point and achieved significant reductions in nitrogen loading. However, NBC determined that additional modifications were required to achieve compliance with the nitrogen limit of 5 mg/L as set forth in the Consent Agreement. Major facility upgrades and renovations were necessary to implement biological nitrogen removal (BNR) technology at each plant. Field's Point completed these upgrades in 2013, and the Consent Agreement effluent total nitrogen limit of 5.0 mg/L went into effect on May 1<sup>st</sup>, 2014; Bucklin Point completed upgrades and began operations under this limit on July 14<sup>th</sup>, 2014.

Nutrients are analyzed from 24-hour composite influent and effluent samples. Samplers automatically collect samples every 30 minutes and composites are delivered to the lab three times per week. EMDA staff regularly clean and replace suction and pump tubing as well as sample collection carboys as part of the clean sampling technique. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing of the autosamplers monthly. Sample collection carboys are dishwasher cleaned, acid washed, and DI water rinsed before they are placed at their sampling location. Equipment blanks are collected every other month from the acid-washed carboys and pump tubing and are used to verify the absence of sample contamination.

All nutrient samples are analyzed by the NBC Laboratory. The nutrients analyzed are TKN, nitrite, nitrate, ammonia, and total phosphorus. TKN comprises the ammonia nitrogen and organic nitrogen in a sample. The organic nitrogen component is necessary to determine and monitor total nitrogen in WWTF effluent. Nitrate is determined by difference from a combined nitrite/nitrate measurement and a nitrite measurement. A nutrient auto-analyzer acquired by NBC's Laboratory in 2004 showed improved analysis efficiency for nutrient measurements, and analytical results with better precision and accuracy than previous analyses. NBC's Laboratory continues to update their techniques and equipment to ensure high-quality data; the nutrient auto-analyzers currently online and in use were acquired in 2009, 2012, and 2013. WWTF nutrients data for 2014 can be found in Tables 13 and 14.



### **Sample Collection for Oil and Grease Analysis at Field's Point and Bucklin Point**

Based on RIPDES permit requirements, three grab samples are collected over the course of a 24-hour period, with one grab per shift, once per month at both the Field's Point and Bucklin Point influent and effluent for oil and grease. The grabs are analyzed separately and the maximum is reported. The RIPDES permit does not set a discharge limit.

Oil and grease samples are collected using a pre-cleaned bottle, which is labeled with collection time and date, site, and the parameter to be analyzed. The cap is removed, taking care to avoid contamination, and the sampler is lowered just below the surface. The bottle is filled and then recapped. Oil and grease grabs are preserved with hydrochloric acid to a pH less than 2 s.u. by EMDA staff as soon as possible after collection. These samples are then brought to the NBC lab for analysis. Oil and grease data results for 2014 can be found in the attached Table 15.

### **Sample Collection for Effluent Dissolved Metals Analysis at Field's Point and Bucklin Point**

In 2000, the NBC began a study to monitor the dissolved metals fraction of the effluent discharged to the receiving waters of the Providence and Seekonk Rivers. During 2014, Field's Point and Bucklin Point effluent samples were analyzed monthly. The NBC and DEM use this data to better understand the fate, effect, and physical partitioning of metals discharged from the Publically Owned Treatment Works (POTWs). Measuring the dissolved and total fractions for each metal allows understanding of the metal's phase partitioning between dissolved and particulate, which is important for the calculations of permit discharge limitations. POTWs are permitted for total metals only; therefore, the DEM must use a "metal translator conversion factor" to estimate the POTWs dissolved metal fraction in the receiving waters when writing a permit. Metals in the dissolved form are more readily absorbed by marine life than metals associated with particles. Resultantly, the EPA and DEM have established fresh and saltwater water quality criteria for dissolved metals concentrations. By sampling for total and dissolved metals, the NBC will be able to better assess the ratio of dissolved to total metals in POTW effluent and in the receiving waters.

Effluent dissolved metals samples are collected and analyzed once per month, with a sample taken from the effluent total metals composite sample on the first Tuesday of each month. The effluent total metals sample is a 24-hour composite sample taken after treatment of the wastewater is complete, just before entering the Providence River. As part of a quality assurance plan, the NBC lab analyzes laboratory equipment blank samples along with the dissolved metals to ensure accurate results. Effluent dissolved metals data results for 2014 can be found in Tables 16 and 17.

### Collection of Final Effluent for Quarterly Bioassay Analyses

The two NBC WWTFs are required to conduct quarterly bioassay studies to determine whole effluent toxicity (WET) to test organisms. NBC conducts chemical analysis and aquatic toxicity testing, using the response of organisms to detect and measure the presence or effect of one or more substances, wastes, or environmental factors, alone or in combination. NBC met the quarterly bioassay sampling frequency requirements during 2014 for both facilities. Effluent samples are collected only in dry weather, defined as no rain 48 hours prior to or during sampling. These samples are 195 ml composites of wastewater collected every 30 minutes over the course of 24 hours. The back-up automatic composite samplers are used for this sampling and are cleaned and maintained in the same way as those collecting samples for TSS and BOD. EMDA staff cleans the sample carboys in the dishwasher after each use and carboys are replaced yearly. A dilute sodium hypochlorite solution is used to clean the suction line and pump tubing of the autosamplers weekly.

Two bioassay tests are performed as required by the NBC RIPDES permits. An acute toxicity test is conducted in which the whole effluent is tested to examine survival of test organisms, the mysid shrimp *Americamysis bahia*, in varying concentrations of effluent. The second test is a chronic toxicity test which examines the effect of effluent on fertilization success in eggs of the sea urchin *Arbacia punctulata*. Both tests are conducted in five concentrations of effluent plus a control: 100% effluent; 50% effluent; 25% effluent; 12.5% effluent; and 6.25% effluent. Natural seawater is used for both the control treatment and dilutions of effluent.

Analysis of the acute toxicity data provided determination of the LC<sub>50</sub> and the A-NOEC. The LC<sub>50</sub> result is defined as the concentration of wastewater that causes mortality to 50% of the test organisms, *A. bahia*. A-NOEC or Acute-No Observable Effect Concentration is defined as the highest concentration of the effluent in which 90% or more of the test animals survive. The permit requirement limit of 100% or greater is defined as a sample which is composed of 100% effluent. The chronic test performed on *A. punctulata* examines the sublethal effects of effluent on the fertilization of eggs. The C-NOEC or Chronic-No Observed Effect Concentration and the C-LOEC or Chronic-Lowest Observed Effect Concentration are reported. The permit limit for Bucklin Point is 50% or greater for this parameter while at Field's Point the permit requires only monitoring.

The WET tests are designed to supplement effluent monitoring to determine whether the combination of chemical species present in a WWTF's effluent is toxic to test organisms. The monitoring for individual pollutants is targeted towards ensuring that the concentrations of the individual pollutants are at levels which do not pose harm to aquatic organisms. The WET tests are an attempt to determining the synergistic impact of NBC effluent on receiving waters. All bioassay analyses are performed by third party laboratories contracted by NBC and must be conducted in accordance with protocols listed in the EPA document: Cornelius I. Weber, et. al., 1991. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Fourth Edition (or the most recent edition). Bioassay data results for 2014 can be found in attached Tables 18 and 19.

### **Sample Collection for Sludge Analysis at Field's Point and Bucklin Point**

Sludge from Field's Point WWTF is collected daily; sludge from Bucklin Point WWTFs is collected Monday through Saturday only, as the contractor processing the sludge is closed on Sundays. Sludge from each plant is analyzed for total solids (TS) and volatile solids (VS). Sludge samples are also analyzed one to two times per month for metals and cyanide. Field's Point WWTF sludge was dewatered on-site using a belt press until December 2005, and is now handled by an outside contractor. Grab samples are taken throughout the day by the contractor and composited in one 4-L container. EMDA staff then pours part of this composite into a 16-oz. container for delivery to the lab by 08:00 the next day. These containers are disposed of after a single use. At the Bucklin Point WWTF, an outside contractor also processes the sludge. Similar to Field's Point, the contractor staff takes grab samples throughout the day and composites these into a 4-L container at the end of the day. This is stored in the refrigerator until EMDA picks up the sample the next morning. EMDA staff mix the sample and pour off approximately 500 mL into a smaller container to bring to the lab for analysis. Data results from sludge sampling for 2014 can be found in attached Tables 20-23.

### **Sample Collection for EPA Priority Pollutants/Volatile Organic Compounds (VOCs)**

Grab samples are collected monthly at influent and effluent locations for volatile organic compounds (VOCs). The same type of glass jars used for oil and grease samples are used for the grab collection. The glass jar is fastened to the end of a pole and dipped into the wastewater to collect the sample. This sample is then poured off into three pre-preserved 40-mL glass vials. The glass vials have been pre-preserved with 3 drops of hydrochloric acid in each vial before collection. The glass vials are then transported to the laboratory for analysis. Priority pollutant data results for 2014 can be found in attached Tables 24 and 25.

### **Sanitary Manhole Sampling**

EPA and RIDPES permit regulations require the NBC Pretreatment Program to reevaluate local discharge limitations every five years. In order to complete this task, the NBC must monitor sanitary manholes to evaluate pollutant loadings from residential sources. One of the primary sources of information regarding the water quality of wastewater in the NBC collection system comes from sanitary and industrial manhole sampling. The NBC began sanitary and combined sewer manhole sampling in 1993, and in 2000, EMDA began to make these collections using EPA approved clean sampling techniques to quantify the background loadings of metals and cyanide from residential and non-industrial sources. As laboratory detection limits continue to decrease due to improved clean sampling techniques, these data become a more precise measure of the amount of uncontrolled toxic chemicals that enter the NBC collection system from residential, non-industrial sources.

Sanitary manholes have been identified in residential areas upstream of any industrial or commercial facilities. These background loadings are outside the realm of regulatory control by the NBC Pretreatment Program, but provide the setting for determining how much of a given

pollutant can be accepted and effectively removed at each of the treatment facilities. These samples reveal the composition of what is being introduced into the collection system in a more site-specific way than the influent composite samples.

The collection of sanitary manhole samples works as follows: automated sampling devices suspended in the manholes are programmed to collect 100 mL of wastewater every fifteen minutes for a 24-hour time period during a given weekday starting in the early morning. The aliquots collect into a 10-L acid-washed Nalgene jug over a 24-hour period, and the composite sample is later poured off into specified containers for each analytical parameter including total metals, cyanide, TSS and BOD, and mercury.

The initial pH of the composite is taken and recorded on a chain-of-custody document, and for those parameters that require preserving, the preservative used is marked and the final pH is recorded. After every use, the automated sampling device tubing and jug are acid cleaned, rinsed with DI water, and a cleaning blank is produced.

BOD, TSS, cadmium, chromium, copper, lead, nickel, Molybdenum, silver, zinc, cyanide, mercury, arsenic, selenium, and tin were measured in both Field's Point and Bucklin Point district sanitary manholes in 2014.

Sanitary manhole data is essential for providing a point of comparison and screening of collection system data to determine problem areas within the collection system. In addition, the sanitary manhole data is necessary for the calculation of the local limits that the NBC imposes on its industrial users. Sanitary manhole data results for 2014 can be found in Table 26.

### **Significant Industrial User (SIU) Sampling**

The EPA requires that all significant industrial users be sampled at least once every twelve months. NBC has established a more stringent goal to sample each user twice per year. Information regarding what is introduced to NBC facilities is gathered through industrial user and industrial manhole sampling, in addition to the required user self-monitoring. The industrial manhole sampling is an additional means to track chemical spills, concentrated, or non-compliant discharges, as well as to ensure that industrial users are in compliance with the limits set by the NBC. The NBC collected 1,455 individual samples from industrial users within both service districts during 2014. These sample bottles were analyzed for numerous parameters and resulted in 193 sets of industrial user sample results. Industrial user data results for 2014 can be found in Table 27.

Industrial manhole sampling activities are designed to isolate a specific business within the collection system to surreptitiously determine the typical discharge from the business. Samples are taken upstream and downstream of a significant user's discharge point via manholes. The upstream sample serves to establish a background concentration with which to compare the results from the industry, as well as confirm that the source of any contaminants is from the permitted user, not additional sources. The distance between these two sampling locations is typically 150 feet, depending on the location of the nearest manhole.

As with sanitary manhole sampling, autosamplers are programmed to collect samples from each manhole location every 15 minutes for 24 hours, thereby providing a composited representation of the average discharge over that time period. Autosamplers can dispense the water collected into up to 24 sample bottles, thereby allowing for an intensive analysis of the variations within the upstream and downstream sample locations, if necessary.

A Tygon<sup>®</sup> suction line with a stainless-steel strainer attached at the end is used to collect samples from the middle of the waste-stream. Samples are immediately checked for sulfides and chlorides using lead acetate and potassium iodide indicator paper, respectively, as these chemicals can interfere with cyanide measurements.

Cyanide sample pH is adjusted using sodium hydroxide to a pH above 12 s.u., while metals samples are acidified using trace-metal grade nitric acid to a pH of less than 2 s.u. Samples are analyzed for cadmium, chromium, copper, lead, nickel, silver, zinc, and cyanide. All metals were analyzed by Inductively Coupled Plasma (ICP).

The implementation of clean sampling techniques at the NBC has provided additional means of confirming that industrial discharges do not exceed treatment capacity. The EMDA industrial user sampling supplements the self-monitoring activities, providing a means for enforcing local limits for the pollutants.

### **Septage Sampling**

The NBC receives septage waste, waste pumped out of septic tanks, at the Lincoln Septage Receiving Station in Lincoln, RI. The Lincoln station input point is within the Bucklin Point service district, approximately 11 miles from the Bucklin Point facility. The septage is routinely monitored by the EMDA for toxic constituents to ensure that the material received does not contain toxics in concentrations that exceed NBC's Pretreatment Industrial Discharge Limitations for the Bucklin Point WWTF, to which the waste ultimately discharges. This sampling also helps NBC evaluate the percent of metals loading received from septage into the Bucklin Point WWTF. Septage samples are collected daily Monday-Saturday as composite samples of all of the septage trucked to the NBC Lincoln Septage Receiving Station. All six composite samples are kept refrigerated until they are picked up by EMDA staff on Mondays at the Lincoln Septage Station and are brought to the NBC lab that same day, barring unforeseen circumstances. Three daily samples are chosen at random and analyzed by the NBC Laboratory for trace metals and cyanide each week. Interceptor Maintenance staff sample and screen each septage truck's waste delivery for quality by looking at the physical characteristics and by measuring pH during the pump-out at the septage facility. Grit removal at the septage facility removes a portion of the metals loading prior to its introduction to the sewer system and the treatment plant. During 2014, 157 septage samples were analyzed for trace metals and cyanide.

Septage samples are collected from each delivery truck after the sample port is flushed thoroughly, usually after the load has discharged, for approximately one minute. The sample from an individual truck is screened for pH, odor, and other unusual characteristics. If any anomaly is observed, the sample is targeted for individual analysis; otherwise it is combined with the day's delivery and sent to the laboratory for analysis. Revised septage sample collection

techniques and equipment were introduced in June of 2004. The new equipment allowed for easier, in-line sampling during septage delivery and has helped to more quickly locate potential toxic inputs to the collection system. These more representative sampling techniques may partially explain the observed increase in septage metal loadings since 2004. Septage data results for 2014 can be found in Tables 28 and 29.



*Septage sampling valve installed on discharge coupling*

## ***NBC Receiving Waters Monitoring Activities***

### **Introduction**

The NBC not only monitors wastewater from the source (industries and manholes) to the WWTFs and throughout the plant process, but also monitors the receiving waters, where treated effluent and combined sewer overflows enter. Receiving waters monitoring conducted by the NBC includes sampling the surrounding urban rivers and upper Bay as well as some of the rivers that enter the upper Bay from Massachusetts. This monitoring data is vital to determining the impact of NBC effluent on the river and bay ecosystems. This data is useful in evaluating the success of the Combined Sewer Overflow (CSO) abatement project in the upper Bay and provides insight into the response of the receiving waters to NBC WWTF upgrades. The NBC EMDA section's role in environmental monitoring and compliance issues also continues to expand as compliance issues become ever more complex.

In 2014, EMDA continued sampling for nutrients at several locations in Narragansett Bay and within the watershed at both local river stations and at border river stations on the MA/RI border. These measurements are aimed at effectively characterizing the magnitude, composition, and distribution of nutrient inputs to these rivers, and comparing these results to previous years to examine factors influencing nitrogen loading into the Bay. The characterization of nutrient loadings dynamics are an integral part of the nutrient issue. Determination of the background loadings, effluent discharge impacts, and fate of nutrients from the NBC facilities are necessary components of a sound environmental policy. This study was undertaken to gain greater insight into the nutrient cycling within the rivers, and to help quantitatively define the amount of nitrogen that the WWTFs can safely discharge without adversely impacting water quality.

In addition to nutrient sampling, the NBC conducts routine field sampling for pathogens (disease-causing organisms) in the local freshwater rivers and the estuarine waters of the Providence and Seekonk Rivers. Fecal coliform has been widely accepted as a good indicator of pathogens in waterbodies. Although fecal coliform (composed of a number of similar species of bacteria) does not necessarily contain disease-causing organisms, it is used as an indicator of the *possible* presence of pathogens. Generally, if fecal coliform counts are high, there is a high potential for the presence of bacteria that could be harmful to both humans and wildlife. Raw, undiluted sewage contains high levels of fecal coliform bacteria because this type of bacteria is found in the feces of all warm-blooded animals, including humans. The wastewater treatment process at NBC's facilities eliminates almost all of these bacteria after the wastestream passes through primary and secondary treatment and, ultimately, disinfection via chlorination or ultraviolet light. Final effluent wastewater discharged from the Field's Point and Bucklin Point WWTFs has very low levels of fecal coliform bacteria. During small rain events, the two treatment facilities use special wet weather treatment tanks to treat and disinfect the higher volumes of combined rainwater and sewage. However, during intense rain events, the NBC's CSOs can send untreated stormwater and sewage that the collection system cannot contain directly into the freshwater rivers and upper Bay.

In recognizing the need to assess the impact that the NBC facilities can have on the water quality of the local rivers and upper Bay, fecal coliform bacteria are measured at a number of locations throughout these receiving waters.



*EMDA staff conducting receiving waters monitoring onboard the RV Monitor*

Water Quality Regulations published by the DEM in July 2006, contained a change in the water quality criteria for bacteria. *Enterococci* measurements, considered a more accurate metric for potential human health impacts from primary contact, were adopted to replace fecal coliform as the primary bacteriological indicator for both fresh and saline waters. Fecal coliform is only applied when *Enterococci* data are not available. Therefore, the NBC also conducted *Enterococci* sampling at five of the bay stations. The NBC has been conducting fecal coliform sampling in the urban rivers and upper Bay for several years and with such a historical database we believe it is important to continue these measurements for as long as possible and as long as it takes to determine if there is a consistent relationship between *Enterococci* and fecal coliform results. Shellfishing standards continue to be based on fecal coliform bacteria levels; therefore it is also important to continue fecal coliform sampling to compare to these criteria.

EMDA also conducts monitoring of particular CSOs during wet weather events that cause these outfalls to discharge. The NBC has embarked on an historic public works project to eliminate the



negative impact that CSOs can have on water quality, with a CSO Abatement Project of which Phase I began operation in the fall of 2008. Phase II systems were largely completed and online at the end of 2014.

As part of investigating the overall health of the Bay, the NBC also maintains two water quality monitoring stations located at a dock at Phillipsdale Landing in the Seekonk River and a buoy at Bullock's Reach in the Providence River. The monitoring sites are continuously collecting data on the conditions of the water such as temperature, dissolved oxygen, salinity, pH, and chlorophyll or turbidity.

### **River and Bay Nutrient Monitoring**

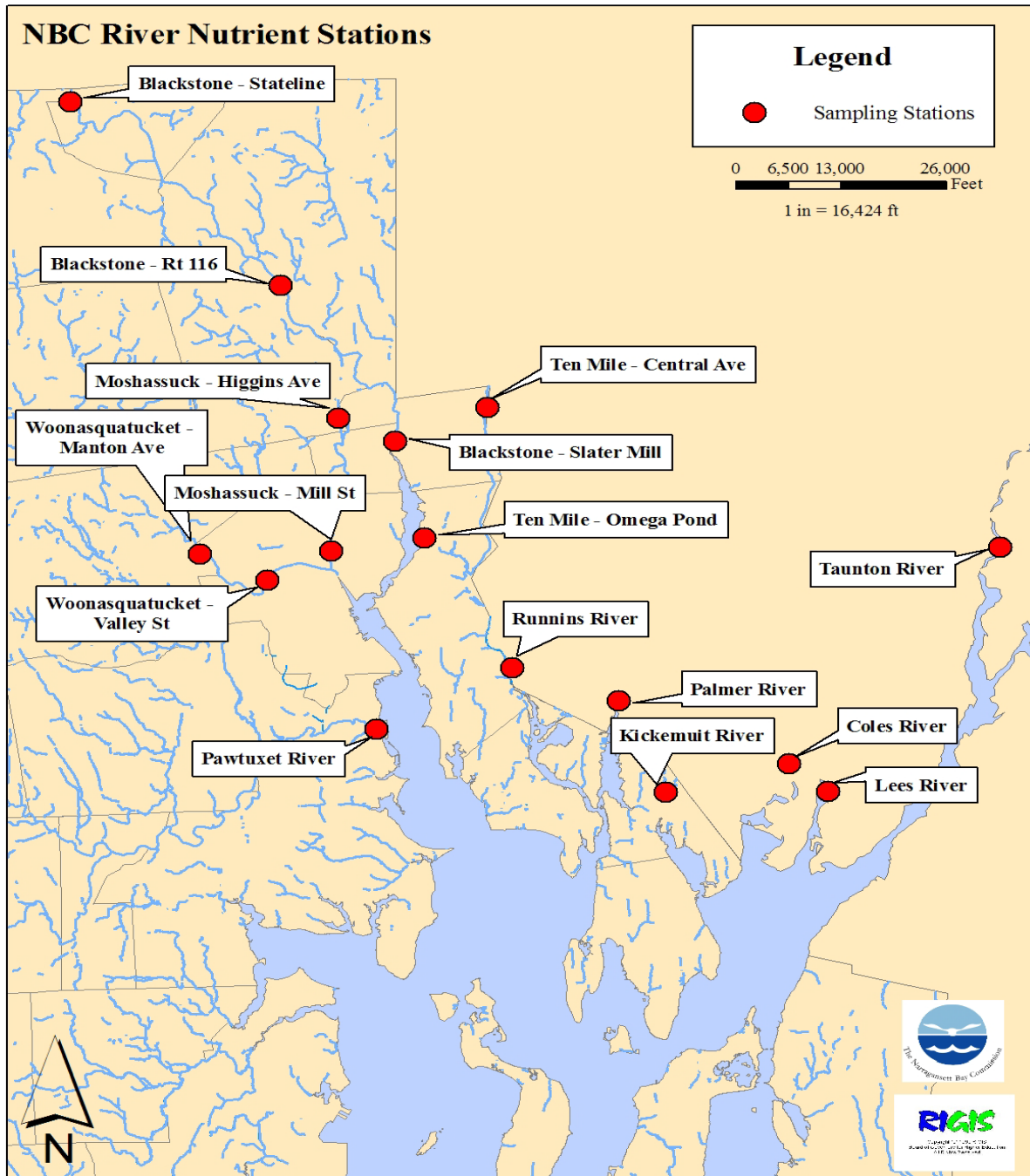
The NBC has been proactive in responding to the environmental concerns of Narragansett Bay and the state of Rhode Island. As a part of a continuing effort to both address and understand the magnitude of the impacts that facility operations have on our receiving waters, an intensive sampling program of the urban and local rivers that are part of the Narragansett Bay watershed has been developed for nutrient analysis and loading determination. This sampling program was designed to encompass two components: an evaluation of the loading in the urban rivers that empty into Narragansett Bay just upstream of tidal influence, and an evaluation of the nutrients entering Narragansett Bay from Massachusetts. Both components are important to accurately determine the nutrient inputs to Narragansett Bay as well as a means of determining the impact of sources outside of the NBC service district. By determining the magnitude and relative importance of these fluxes, the NBC will be able to more accurately determine the impact of biological nutrient removal (BNR) systems as well as planned future facility upgrades at both the Bucklin Point and Field's Point facilities. This data will also contribute to developing a thorough understanding of nutrient fluxes to Narragansett Bay.



*EMDA staff collecting nutrients samples*

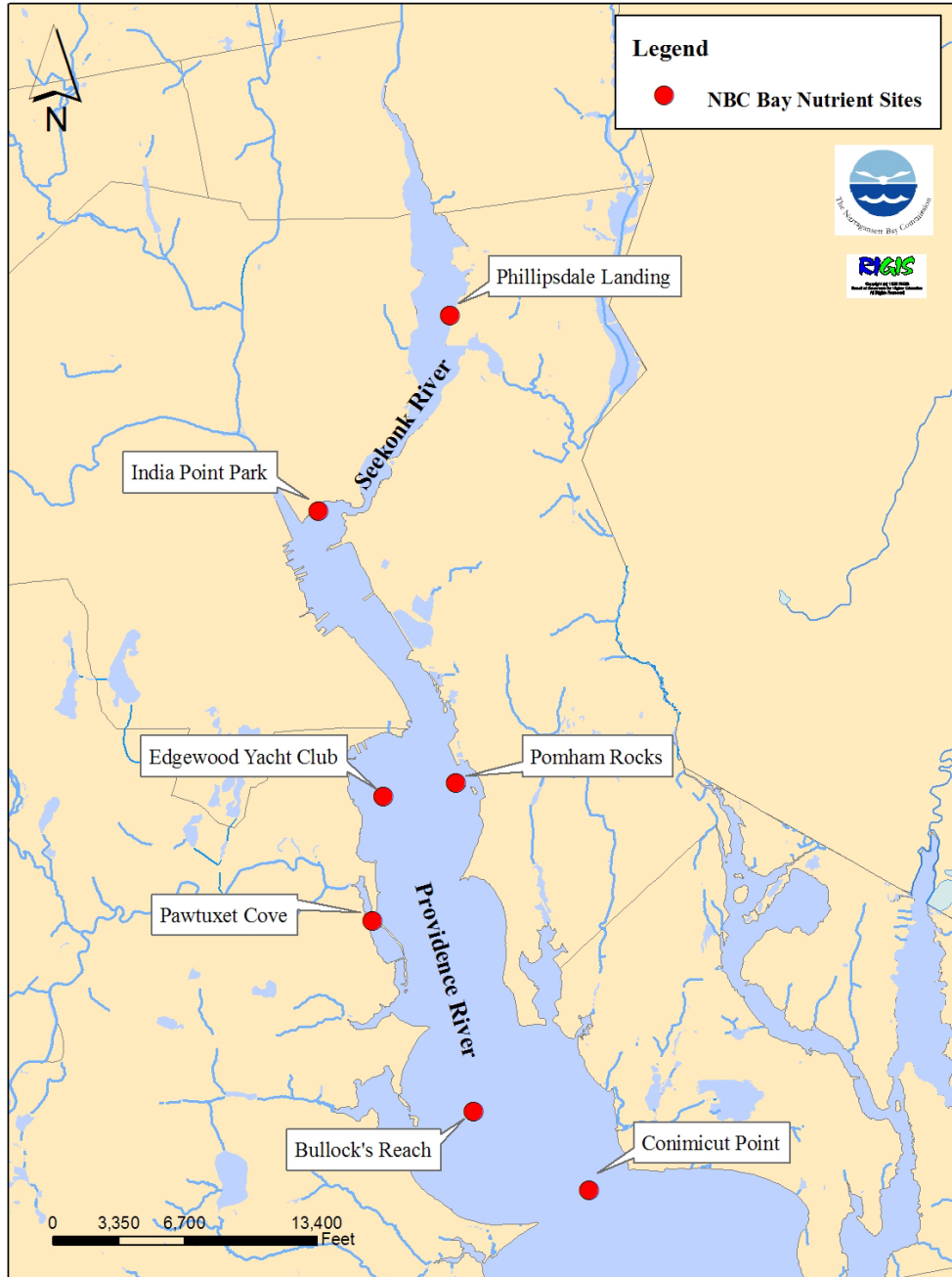
The NBC initiated nutrient monitoring of the local urban rivers in 2005, and expanded the sampling locations and increased the frequency of sampling in 2006. An additional station was added on the Ten Mile River in December 2011 to get a better representation of nutrient loadings from Massachusetts into this river. In 2014, there were sixteen sample stations monitored one to two times per month. The locations of sample stations can be found in Figure 1.

**Figure 1: NBC River Nutrient Sampling Stations**



Sample locations on the freshwater rivers are as close to the mouth of the river as possible without encountering tidal mixing. On CSO-affected rivers, an additional station is also sampled at a location upstream of all CSOs. Nutrient samples are taken using a peristaltic pump, Tygon<sup>®</sup> tubing, and new plastic sample bottles. All tubing and sample bottles are acid washed and then rinsed with DI water before the sampling event, and tubing is rinsed with DI water between sample stations. DI water field blanks, equipment blanks, and duplicates are collected in order to determine the accuracy and reproducibility of sampling methods and sample handling techniques. In addition to sampling QA/QC measures, the NBC Laboratory has a rigorous analytical QA/QC program in place for all nutrient samples. To measure any direct changes in nutrients in the upper Bay as a result of WWTF upgrades and the CSO Abatement Project, the Narragansett Bay Commission began sampling for nutrients in the Providence and Seekonk Rivers during the summer of 2005. The direct water column nutrient measurements provide an important look at the amount of nutrients in the upper Bay from all sources, including river loading, surrounding WWTFs, atmospheric deposition, groundwater, runoff, leaky septic systems, and nutrients from the middle and lower Bay area as well as from offshore. Original Bay sampling stations in 2005 included five surface stations and one bottom station. These Bay stations included Conimicut Point, Edgewood Yacht Club, Pomham Rocks, and India Point Park at the surface and Phillipsdale Landing at the surface and bottom. In July 2006, one additional bay station was added as well as bottom samples at all bay stations. The new bay station was located at the Bullock's Reach Buoy, where the NBC fixed-site continuous water quality monitoring buoy is located. In August of 2012 a seventh site was added near the mouth of the Pawtuxet River at the channel marker of Red Can #6. This site was added to observe the effects of the Pawtuxet River on upper Narragansett Bay. As seen in Figure 2, the Conimicut Point, Bullock's Reach Buoy, Pawtuxet Cove, Edgewood Yacht Club and Pomham Rocks stations are located in the Providence River. The Phillipsdale Landing station is located in the Seekonk River at our fixed continuous water quality monitoring dock site and the India Point Park station is located near the mouth of the Seekonk River estuary. All surface collections in bay waters were made at a depth of approximately 0.5 to 1 meter below the surface. Bottom collections were made approximately 0.5 to 1 meter above the sediment. Bay samples were collected, filtered, and preserved on-board the NBC research vessel, the *R.V. Monitor*. Samples were collected using either an acid-washed and DI water-rinsed Niskin sampler attached to the boat davit or a portable peristaltic pump with Tygon tubing placed approximately six inches below the water surface. The pump would direct the sample into an acid washed bottle. If the Niskin sampler was used, the sample water was poured off into a sample bottle. Using the water in the sample bottle, the same methods as described above for the freshwater rivers were used for the estuarine samples. Sample splits were also submitted to both the NBC and URI/GSO MERL (MERL) facilities to assure data quality during the first two years of sampling (i.e., 2005 and 2006). As with the river samples, DI water field blanks and duplicates were collected during bay sampling as well. The NBC laboratory analyzes both freshwater and saltwater nutrient samples for nitrite/nitrate, nitrite, total dissolved nitrogen, ammonia, orthophosphate, silicate, and total nitrogen. All nutrient samples, except for the total nitrogen, were filtered prior to analyses; therefore, these results are measurements of the NBC and URI/GSO MERL (MERL) facilities to assure data quality during the first two years of sampling (i.e., 2005 and 2006). As with the river samples, DI

**Figure 2: NBC Bay Nutrient Sampling Locations**



water field blanks and duplicates were collected during bay sampling as well. The NBC laboratory analyzes both freshwater and saltwater nutrient samples for nitrite/nitrate, nitrite, total dissolved nitrogen, ammonia, orthophosphate, silicate, and total nitrogen. All nutrient samples, except for the total nitrogen, were filtered prior to analyses; therefore, these results are measurements of the dissolved (or soluble) phase. Grab samples for TSS and chlorophyll are also taken at the same time as nutrient samples and analyzed by the NBC Laboratory. The instrument

the Laboratory acquired in 2005 to measure nutrient parameters in saltwater can only measure nutrients in the dissolved phase. Total nitrogen was also determined to be an important piece of the picture when looking at potential changes in nitrogen in the Bay, therefore another new instrument was acquired in September 2012 to analyze fresh and saltwater samples for this parameter. Analyses using this new instrument began in November 2012. All data for the 2014 River and Bay Nutrient sampling can be found in the attached Table 30.

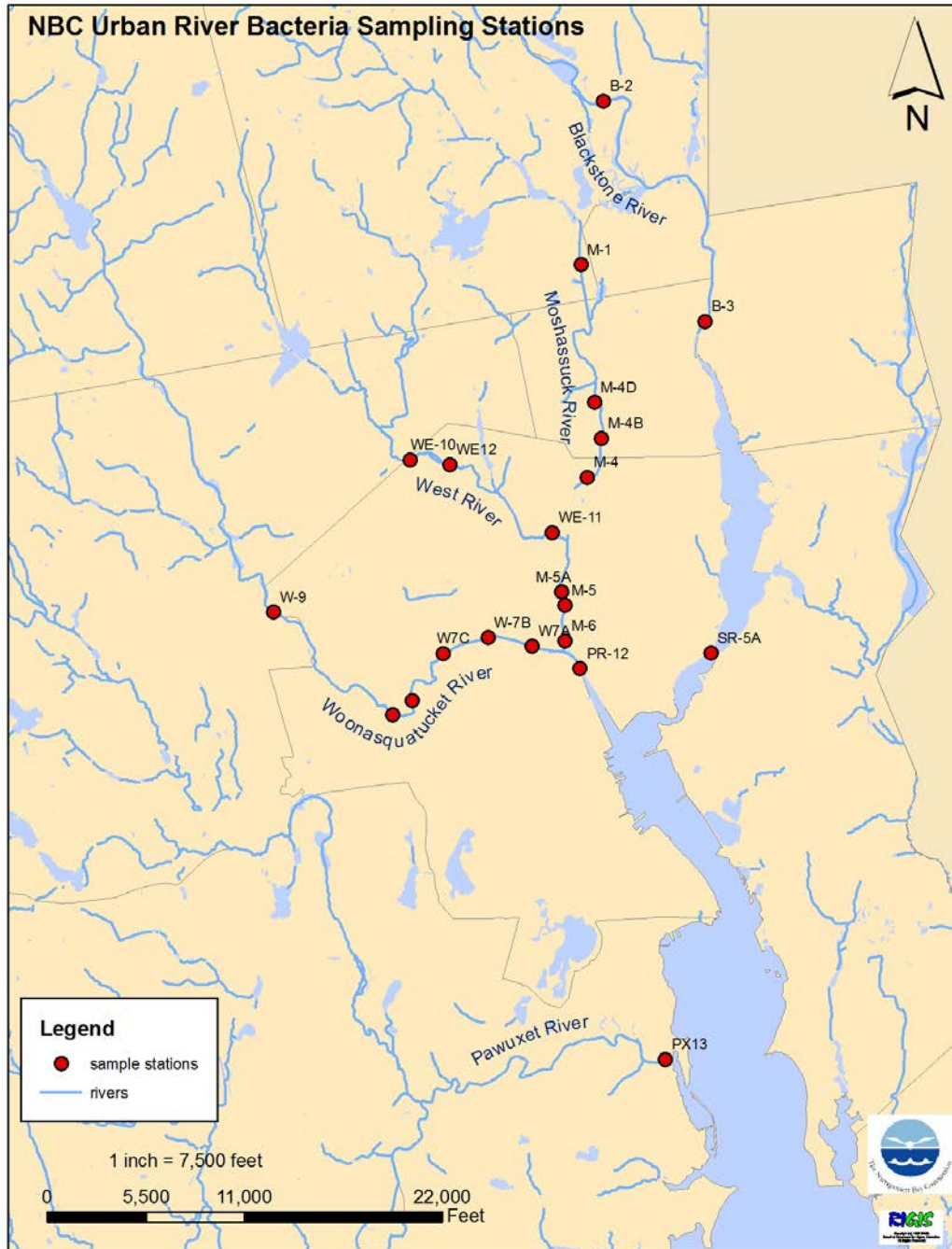
### **Urban River Pathogen Monitoring**

Consistent monitoring for fecal coliform analysis on the Providence area urban rivers began in 1997 and became the responsibility of EMDA in 1998. It was developed in conjunction with the CSO remediation stakeholders and has developed as a tool of the Interceptor Maintenance section as a check for potential problems occurring at any of the sixty-seven CSOs the NBC owns, operates, and maintains. Routine sample collections for analysis of fecal coliform are made each week, with stations on the Blackstone, Woonasquatucket, Moshassuck, Seekonk, Providence, and Pawtuxet Rivers sampled on Mondays and stations on the West, Woonasquatucket, Moshassuck, and Providence Rivers on Tuesdays. In the event of a holiday, or any other unforeseen circumstance arising that would prevent sampling under the regular schedule, the sampling routine will begin the next day sampling is possible. Samples are collected by EMDA staff in the morning, and delivered to the lab at Field's Point no later than 11:30 the day of sampling. All stations sampled on the same river on the same day are collected within a two-hour interval. NBC's Interceptor Maintenance and Construction, EMDA, and Engineering departments determine locations to be added or omitted as needed.

On river sample collection days, samples are collected from six sites on the Woonasquatucket River, two sites on the Blackstone River, seven sites on the Moshassuck River, three sites on the West River, and one site each on the Pawtuxet, Providence, and Seekonk Rivers. The locations of these sites are shown in Figure 3. After the Woonasquatucket River flooded in April of 2010, the sample location at Atwells Avenue had to be changed to Eagle Street due to bridge damage at the original location. During 2014, 1,999 bacteria samples were collected and analyzed.

In order to improve NBC's identification of dry weather overflow (DWO) discharges and to identify other sources of bacterial contamination in the rivers, in 2002 EMDA began resampling weekly river collections when DWOs are suspected. Rivers are not resampled when collections have occurred in times of wet weather, because analytical results are expected to be high due to the normal functioning of CSOs. When results from collections are high (greater than 1000 MPN per 100 mL) and there has been dry weather (i.e., less than 0.1 inches in the preceding four days), EMDA will resample those stations a second time within the week. Resampling will also occur when results are very high (i.e., greater than 10,000 MPN/100 mL) when no rain has occurred in the preceding two days. These general resampling criteria are subject to change based on river flow, fecal bacteria level at background stations, and staff availability.

**Figure 3: NBC Urban River Bacteria Sampling**



Water samples for fecal coliform analysis are collected from the center of a bridge or from a riverbank. A sterile, 120-mL fecal coliform sample container is used for the sample collection. Collections from bridges are conducted by placing the sample container in an open-ended PVC cylinder and holding it in place with a small screw running through the cylinder body. A rubber handle extends from the top of the cylinder with a line attached for lowering it into the water stream being sampled. Each sampler can hold up to 4 bottles. Samples being collected from a

riverbank are taken by dipping the sample container in the water stream by hand. The sample is taken as close to the center of the water stream as possible.

Once the sample has been collected, the sample container is sealed, and a label with site ID, sample number, date and time of collection, preservation techniques used, and collector's initials is placed on the container. The samples are held at 4°C in a portable cooler with ice packs for transfer to the lab. All samples are brought to the laboratory within the 8-hour holding time period. If samples exceed the holding time, they are discarded and not analyzed.

As part of EMDA's quality assurance for this program, collection and analysis of duplicate fecal bacteria samples occurs on all regular sampling days. These collections and analyses are used to help determine general water quality variability, namely bacterial "patchiness" in the river, as well as analytical and sampling variability. The two sampling locations that have been chosen as replicate sites are Eagle Street Bridge (W-7C) in Providence on the Woonasquatucket River, the end of Moshassuck Street (M-4B) in Pawtucket on the Moshassuck River, and Footbridge at Mill Street (M-5) also on the Moshassuck River. The Eagle Street sampling is conducted from a bridge in the center of the main current flow. The end of Moshassuck Street site sampling is conducted from the riverbank in the center of the main current flow. The Footbridge at Mill Street site sampling is conducted from the center of the main current flow from the private footbridge near Mill Street. The duplicate samples are taken simultaneously with the sampling device. Fecal and *Enterococci* data for the sampling stations located in the Woonasquatucket, West, Providence, and Seekonk Rivers can be found in the attached Table 31. Data for the Blackstone, Moshassuck, and Pawtuxet Rivers can be found in the attached Table 32.

Another element of EMDA's quality assurance for this program is the collection and analysis of field blanks. Sample blanks are taken in the field during each fecal coliform sampling day to measure the ability of staff to maintain clean sampling techniques, and to rule out any potential contaminants from normal "open-air" exposure. These blanks are taken using DI water in place of river water, with the same handling techniques as the actual river samples. The detection limit for these samples was <30 MPN/100 mL. The analytical method used by the NBC Laboratory is the 24-hour Fecal Coliform Determination by Multiple Tube Fermentation, using A-1 broth or media. The Standard Methods reference number is 9221E for this EPA approved methodology. Positive and negative controls are routinely run in the laboratory; in addition, tubes of un-inoculated, freshly prepared media are incubated and analyzed in order to confirm the sterility of the media. The NBC Laboratory is Rhode Island Department of Health certified. All samples are properly preserved prior to analysis at 4 °C and holding times are kept to less than four hours, to avoid approaching the maximum eight hour limit.

## **Bay Pathogen Monitoring**

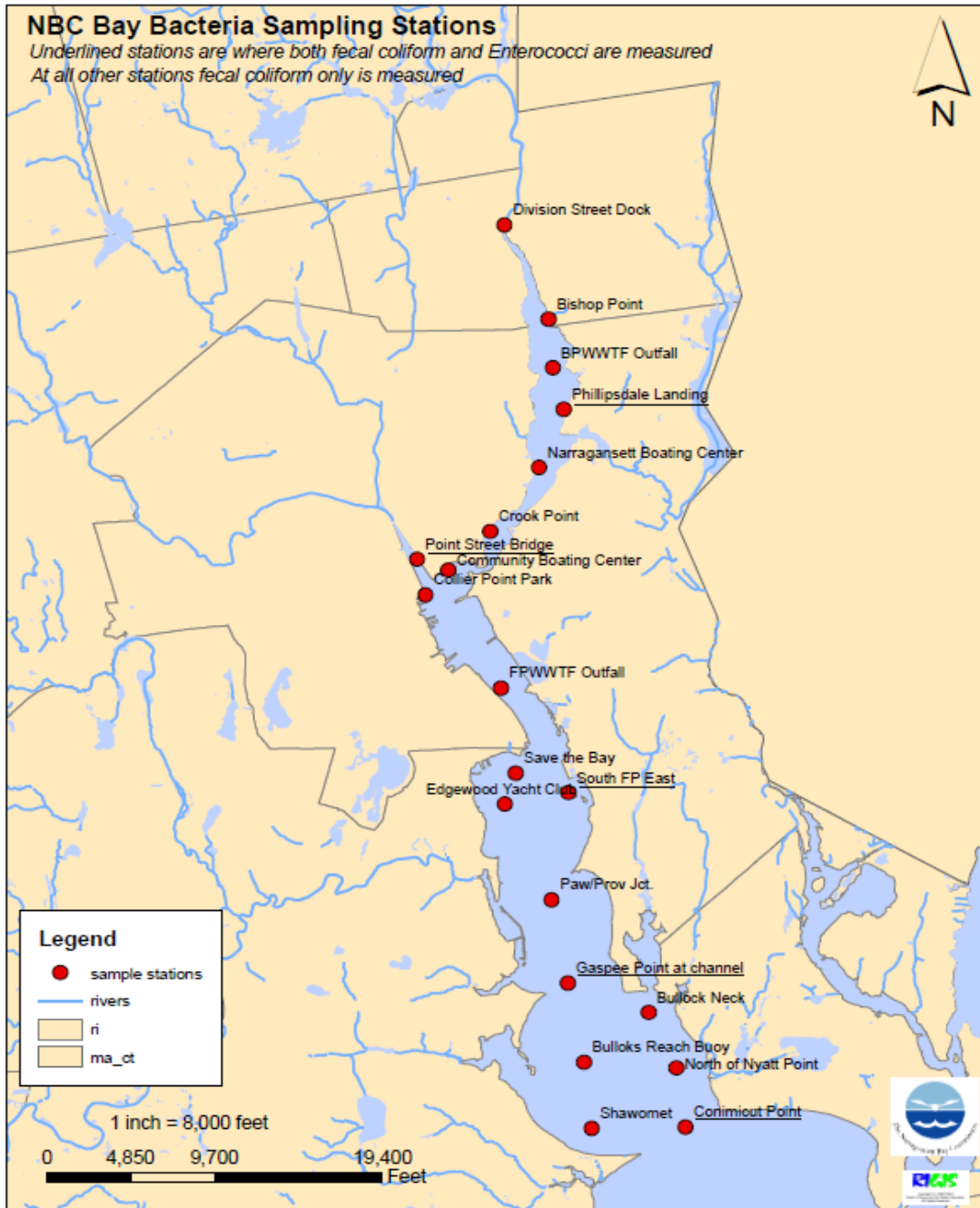
Fecal coliform sampling in the Providence and Seekonk Rivers began in 2003 in response to the need to understand the spatial and temporal impacts that discharges within these waterbodies have on Narragansett Bay as a whole. Routine sample collections for the analysis of fecal coliform are made biweekly, usually on Wednesdays or Thursdays, throughout the year, dependent on weather. All station samples are collected within a three-hour interval on the same day. In the event of a holiday or any other unforeseen circumstance arising that would prevent sampling under the regular schedule, the sampling will resume on the next regular work day. Samples are collected by EMDA staff, and delivered to the lab at Field's Point no later than 12:00 on the day of sampling.

Bay fecal samples are collected at twenty locations in the Seekonk and Providence River. Fecal samples are collected from the NBC research vessel the *R/V Monitor* at six sites in the Seekonk River, four sites in the Providence River north of Field's Point WWTF, and ten sites in the Providence River south of Field's Point WWTF; these sampling locations are shown in Figure 4. During special events, including after some heavy rainfalls, special sampling may take place that includes collecting bay fecal samples consecutively over several days in the Seekonk and/or Providence River as well as in the conditional shellfishing areas just south of the Providence River. Depending on the event, the sample stations may include all or some of the usual stations and/or additional stations further down the Bay.

Water samples for bacteria analysis are collected from the port or starboard side of the EMDA research vessel. A sterile, 120-mL coliform sample container is used for the sample collection. Collections are made by placing the sample container in an open-ended plastic cylinder which is held in place with a small screw running through the cylinder body. A metal handle extends from the top of the cylinder with a vinyl line attached for lowering it into the water being sampled. Once the sample has been collected, the sample container is sealed, and a label with site ID, sample number, date, and time of collection, and preservation techniques is placed on the container. The samples are held at 4 °C in a portable cooler with ice packs or a portable refrigerated cooler for transfer to the lab. All samples are brought to the laboratory within the 8-hour holding time period. If samples exceed the holding time, they are discarded and not analyzed. Duplicate samples are taken at the Conimicut Point and Phillipsdale Landing stations. The duplicate samples for each site are collected simultaneously using a second 120-mL coliform bottle. A blank sample using DI water is also taken and brought to the lab along with the fecal samples for quality assurance purposes. In addition to fecal monitoring, five sites are analyzed for *Enterococci* bacteria. Additional fecal samples were taken in 2014 in the upper Bay Conditional Shellfish Areas to evaluate the effects of a dry weather overflow in October. During 2014, 474 bay fecal coliform samples and 120 *Enterococci* samples were collected and analyzed. 2014 Bay fecal coliform and *Enterococci* data are shown in the attached Tables 33 and 34, respectively.



**Figure 4: NBC Bay Bacteria Sampling Stations**



**Combined Sewer Overflow Monitoring**

In implementing NBC’s policy of protection of Narragansett Bay and its tributary rivers, and to fulfill the requirements of the EPA and RIDEM Nine Minimum Controls Program, the EMDA staff sampled CSO wet weather overflows during three rain events in 2014. The aim of these wet weather sampling events was to characterize the impact of CSO discharges and to evaluate the

success of the NBC Pretreatment and Pollution Prevention Programs at controlling the discharge of toxics through CSOs. The CSO Abatement Project, once fully implemented, will effectively eliminate 98% of CSO discharges. Until both of the CSO Abatement Project and the EPA's Capacity, Management, Operations, and Maintenance program for the NBC are fully implemented, all other feasible controls of CSO discharge are expected to be utilized. The 2014 wet weather sampling was conducted on May 1<sup>st</sup> at Outfall 002A, the North Diversion Structure, with approximately 1.28 inches of rain as measured at the National Weather Service at T.F. Green Airport; August 13<sup>th</sup> at Outfall 56A, Vandewater St, with 2.26 inches of rainfall; and lastly at Outfall 220 on November 17<sup>th</sup> with 1.5 inches of rain. Outfall 02A is within the Bucklin Point service area and discharges into the Seekonk River and is tied to a sewer collection drainage basin that includes a mix of residential, industrial, and commercial uses. Outfall 220 discharges into the Moshassuck River and Outfall 56A discharge into the West River; both of these outfalls are located within the Field's Point Service area. The data for CSO 2A can be found in Table 35, the data for CSO 56A can be found in Table 36, and data for CSO 220 can be found in Table 37.

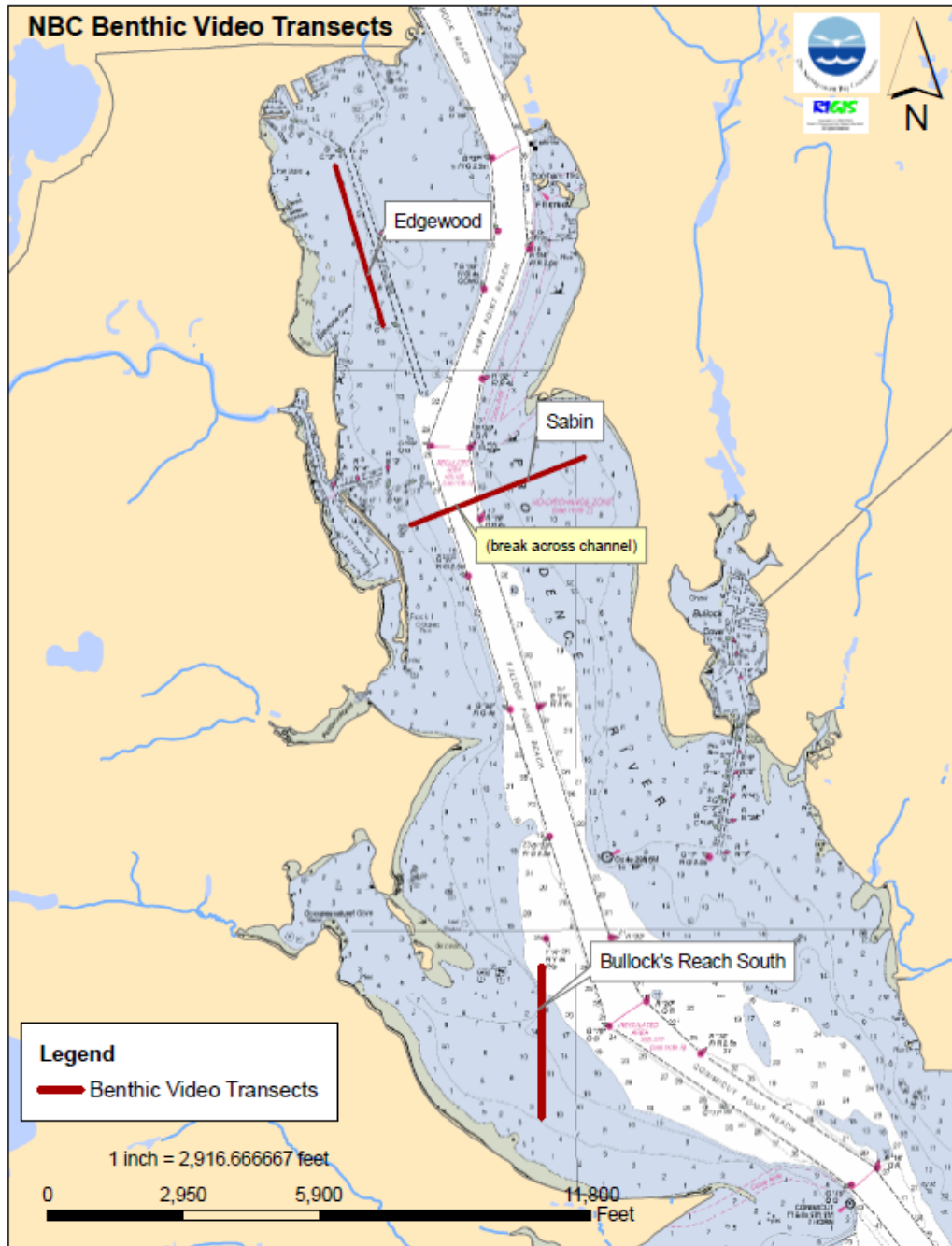
The sampling plan was designed to collect three samples at each outfall throughout the overflow event. The first sample is collected during the initial overflow, or first flush, stage and is expected to contain wastewater with the least degree of rain water dilution and the highest concentrations of materials washed from street and land surfaces into the combined sewer system. A second sample is then taken during the stage of highest overflow rate and a third sample taken near the conclusion of the event. This plan was fully implemented during all 3 CSO sampling events in 2014 for all samples except for the first flush sample taken at 07:00 on May 1st at Outfall 002A. Due to a limited amount of sample collected, the full suite of parameters was unable to be analyzed but was analyzed for nutrients and some metals.

### **Benthic Video Monitoring**

In 2011, the NBC purchased an underwater video camera for the purposes of viewing and monitoring the benthic conditions on the upper Bay floor in relation to plant upgrades and improved effluent water quality coming out of the WWTFs. A specialized sled mount was created to enable smooth towing of the camera and provide a consistent field of view for observations. In 2014, the NBC collected approximately 8 hours of underwater footage throughout the upper Bay, continually improving field methods and refining this new monitoring initiative. These videos, collected between June and October, revealed a diverse community of estuarine organisms living in the upper Bay including fish (e.g., summer flounder, juvenile black sea bass), crustaceans (e.g., mantis shrimp, spider crabs, hermit crabs), horseshoe crabs, sea stars, mud tube anemones, tube-building worms, and mollusks (e.g., soft-shelled clams, mud snails, slipper snails). In addition, variable habitat types were documented, including mudflats, zones covered in shell hash and shell rubble, extensive growth of macroalgae, and vast mats of amphipod tubes.

In late 2014 the NBC designated three permanent transects to target in future benthic surveys to be conducted monthly, weather permitting. The locations of these transects can be seen in Figure 5. Video footage collected along these transects will increase the NBC's understanding of changes to the biological conditions in the upper Bay in relation to changes in effluent and related receiving waters monitoring. These videos or highlight clips are also available to the public via the NBC's main webpage.

**Figure 5: Benthic Video Transect Locations**



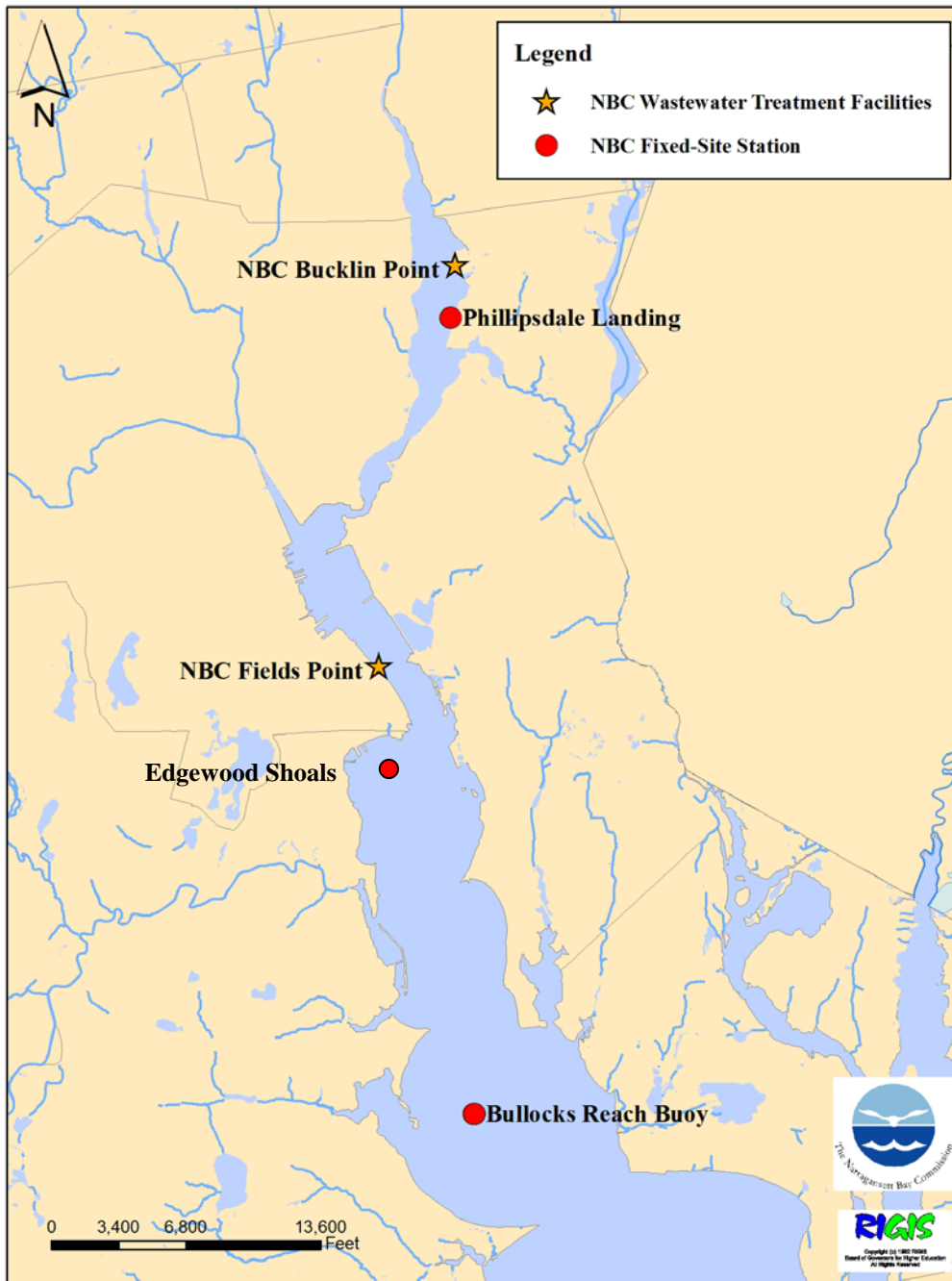
## **Narragansett Bay Fixed-Site Water Quality Monitoring**

The NBC funds and maintains two fixed site water quality monitoring stations, one in the Providence River and one in the Seekonk River. These stations were created in 2000 as part of a formerly EPA-grant funded “Environmental Monitoring for Public Access and Community Tracking” (EMPACT) Project. NBC has maintained full funding of these sites since federal grant funding ceased in 2002. The stations have been established in proximity to the Field’s Point and Bucklin Point wastewater treatment plant outfalls. The Bullock’s Reach station is a floating buoy located between Gaspee Point and Conimicut Point in the Providence River and the Phillipsdale Landing station is affixed to a dock located in the Seekonk River in East Providence. The locations of these sites are shown in Figure 6. These monitoring stations directly benefit Narragansett Bay research by allowing for continuous, real-time water quality monitoring in the more urbanized portions of the upper Bay. Through radio and land-based LAN-line telemetry systems, Bay researchers can consistently track changes in the estuaries from remote locations, thus saving valuable resources and decreasing the response time to anomalous conditions. This data also provides a baseline of water quality across seasons and reveals yearly trends. These two locations are part of a larger, bay-wide monitoring network of water quality instruments deployed and maintained by other agencies.

The NBC uses YSI water quality instruments, called sondes, to collect measurements of depth, temperature, salinity, pH, dissolved oxygen, turbidity, and fluorescence (i.e., a proxy for chlorophyll and phytoplankton activity). Data collected by the sondes, at both the Bullock’s Reach buoy and Phillipsdale Landing stations is recorded every 15 minutes and is transmitted via radio signal from Bullock’s Reach and via LAN-line connection from Phillipsdale Landing to a base station at Field’s Point every hour. During the initial phase of the project in 2001 and 2002, EMDA and URI-GSO worked together to service and maintain the Bullock’s Reach buoy. Since 2003, the NBC has assumed all maintenance activities at both the Bullock’s Reach buoy as well as the Phillipsdale Landing dock site. The EMDA staff is also continually making improvements to equipment, infrastructure and QA/QC protocols to ensure the reliability of data collected.

As part of a statewide monitoring network collectively known as the Narragansett Bay Fixed-Site Water Quality Monitoring Network (Fixed-Site Network), EMDA currently works in partnership with the RIDEM, University of Rhode Island (URI) and Narragansett Bay National Estuarine Research Reserve (NBNERR) to uphold standard operating procedures for calibration and maintenance of the sondes as well as data handling to maintain consistency between organizations. The RIDEM maintains a website which allows easy access to data from all of these fixed sites in one central location. This can be accessed at <http://www.dem.ri.gov/bart/stations.htm>. The RIDEM Bay Awareness and Response Team (BART) website currently displays a map showing station locations, weekly summaries of data from all network sites, monthly graphs of summer data, and all Fixed-Site Network data in raw, edited, and corrected formats. In addition to the RIDEM BART website, the NBC also maintains a website dedicated to the dissemination of NBC monitoring data called Snapshot of Upper Narragansett Bay (<http://snapshot.narrabay.com/app/>). Data from the two water quality monitoring stations is available near real-time with, in an easy-to-use and easy-to-understand format, including graphs and downloadable data tables.

**Figure 6: NBC Fixed-Site Water Quality Monitoring Stations**



As WWTFs reduce nitrogen input into the bay, nitrogen that is often associated with eutrophication and hypoxia, monitoring water quality can help researchers better understand the response of the bay to these reductions. Hypoxia is the condition that occurs when dissolved oxygen concentrations in water fall below a critical level, negatively affecting biological organisms. As part of the larger network of agencies continuously monitoring water quality in the bay, the NBC supports the understanding of the overall health of NBC's receiving waters and will be useful in looking at the response of these waters to nitrogen reductions from WWTFs. The water quality instruments (sondes) that NBC and the other agencies use at these fixed sites are continuously monitoring dissolved oxygen via optical sensors. With the NBC receiving the

data real-time from its two fixed sites, NBC staff can immediately determine when hypoxia is occurring and for how long. This data is extremely helpful for the NBC, RIDEM and other organizations in studying the dynamics of these events and how the organisms in the Bay react.

Data from 2014 was sent to the RIDEM weekly during the critical summer months to keep them updated on the water quality status at the Bullock's Reach site. Throughout the years, data from the Bullock's Reach buoy has been useful in DEM's analysis of water quality changes in the upper Bay, and for periodic fish kills occurring in the upper Bay and rivers. The data from these sondes is also being used in a joint NBC-URI hydrodynamic modeling project that will provide information on currents, flushing, and predicted tracks of WWTF effluent in the Providence and Seekonk Rivers.

### ***Phillipsdale Landing Dock Site***

The Phillipsdale Landing site is located on the east side of the channel of the Seekonk River in East Providence. The monitoring location is unique in that it is very close to large freshwater river sources and is also open to the tidal estuarine Providence River. Therefore, it receives seawater flushing during the tidal cycle and the transport of saltier bottom waters in the form of a salt wedge. This makes the Seekonk River a tidal estuary, defined as a place of fresh and saltwater mixing, in the truest sense. The freshwater rivers feeding the Seekonk River include the Blackstone River, which is north of the Phillipsdale Landing site and feeds directly into the Seekonk River as its major source, and the Ten Mile River, which enters the Seekonk River just south of the Phillipsdale Landing station. The Phillipsdale Landing site is located very close at approximately 41° 50.597 North and 71° 22.308 West, in about 3.5 meters (i.e., 11.5 feet) of water, located just downstream from the Bucklin Point WWTF. Two YSI sondes collect water quality data from two depths, one located near the surface and one just off from the bottom. With these instruments fastened to a dock allows staff to have easy access to the water quality instruments from shore, allowing them to get to the instruments quickly and attempt to remedy any problems.

### ***Bullock's Reach Site***

The Bullock's Reach Site sonde location is situated on a floating YSI buoy that is anchored near the edge of the shipping channel in the southern section of the Providence River. This location is in deeper, more saline waters than the Phillipsdale Landing station and is less proximate to freshwater sources and receives a greater degree of influence of the saltier waters of the mid-Bay. The nearest freshwater source is the Pawtuxet River located to the northwest of the buoy site. The position of the buoy is to the northwest of Conimicut Point at approximately 41° 43.944 North and 71° 22.214 West in about 8 meters (i.e., 26 feet) of water, west of the Providence River channel. The Bullock's Reach buoy is located south of the Field's Point WWTF. There are three sondes at this site with a surface sonde placed in a PVC tube that is integrated into the buoy that allows protected but free-flowing access to the surface water. The bottom and mid-depth sondes are attached to the buoy on one line with a mushroom anchor at the bottom and a float just above the sonde to keep it in an upright position. Power to the buoy is maintained by a solar-powered battery.

### ***Edgewood Shoals***

In June 2014, the EMDA began collecting water quality data at a site known as Edgewood Shoals, using a portable buoy system to support the ongoing ROMS modeling project. This location is in an area of recurring hypoxic waters, thought to be affected by a gyre found during trials with the ROMS hydrodynamic model. ROMS model simulations show this area receives freshwater inputs potentially from the Field's Point WWTF, the Pawtuxet River, and the Blackstone/Seekonk River. The gyre may trap a parcel of water and therefore nutrients in this area for up to ten days or more. The sondes were deployed via a line, mushroom anchor and subsurface float system.

### ***Data collection***

The Bullocks Reach buoy includes YSI sondes at three depths: surface, mid, and bottom. The three sondes are deployed via a YSI EMM 700 buoy system with the surface sonde at an approximate depth of 1.0 meters, a mid-depth sonde at approximately 5.2 meters, and sonde at the bottom at an approximate depth of 7.8 meters. Water quality data is recorded every 15-minutes from all three depths. The surface and mid-depth sondes measure depth (m), water temperature (°C), specific conductance (salinity; mS/cm and ppt), pH (s.u.), dissolved oxygen (% and mg/L), chlorophyll a (µg/L), and fluorescence (%). The bottom sonde also measures the same parameters with the exception of chlorophyll which is replaced by turbidity (NTU). The buoy is serviced using the NBC's research vessel the *R/V Monitor*. Data from the buoy is transferred to a computer in the Field's Point Operations Building via radio signal every hour and is then viewed by EMDA personnel utilizing the YSI software program, Loggernet, and Interactive Oceanographics software, Streamline. For the 2014 season, the buoy was deployed in the water in early May and sondes began collecting data on May 12<sup>th</sup> until they were removed for the season on November 25<sup>th</sup>.

The continuous monitoring site at Phillipsdale Landing collects water quality data from two depths, ~0.6 m below the surface and at an average depth of 1.7m, in 15 minute intervals. The surface sonde measures depth, water temperature, specific conductance (salinity), pH, dissolved oxygen, chlorophyll a, and fluorescence. The bottom sonde measures depth, water temperature, pH, and dissolved oxygen. As with the Bullock's Reach data, Phillipsdale Landing data is transferred to a computer in the Field's Point Operations Building via LAN line and is then viewed by EMDA personnel utilizing YSI software. For the 2014 season, the sondes began collecting data on April 8<sup>th</sup> and continued collecting data the rest of the year until they were removed from the water on January 6<sup>th</sup>, 2015 due to concerns of ice buildup at the site.

Unlike Phillipsdale and Bullock's Reach, the sondes at Edgewood Shoals are not telemetered and data is logged internally in the sonde and is uploaded from the sondes once they are brought back to the lab. Sondes were set out at approximately 1.5 m below the surface and near the bottom at 5.3 meters. Data is collected in the same manner as the other locations, once every 15 minutes comprised of depth, water temperature, specific conductance (salinity), pH, dissolved oxygen, chlorophyll a, and fluorescence at both the surface and bottom sondes. During the 2014 season, sondes were set out on June 17<sup>th</sup> and were removed from the water on November 25<sup>th</sup>.

### ***Lab/Field Procedures***

Sondes are calibrated generally the day before deployment for each site at the lab in the EMDA office. All sondes are calibrated using YSI-recommended methods in the YSI Operations Manual as well as agreed upon protocols from the Fixed-Site Network. All calibrations use YSI standards and are conducted by trained NBC EMDA staff in the EMDA laboratory. Sondes are designated for each specific site and deployed and are then retrieved after approximately two weeks in the water. Upon returning to the EMDA lab sondes undergo post-deployment checks, which consist of testing each parameter on the instrument for any issues with performance. The post-deployment check involves placing the sonde probes in each calibration solution, as done during calibration, to check sonde readings when in that solution of known concentration, pH or NTUs. This data can be used in assessing how closely the sonde is reading to the actual solution levels, and therefore how far it has drifted from the original calibration or if there has been a probe failure. After the post-calibration check, sondes are cleaned and re-calibrated just before the next deployment period. Calibration and post-calibration results are recorded and kept for reference and data editing purposes.

Once at the deployment site, a vertical profile is done using another YSI sonde instrument that measures depth, water temperature, pH, and dissolved oxygen. This instrument can be lowered to the approximate depths of the sondes and can display readings for the parameters on a small handheld computer. These measurements can be compared to the newly deployed sonde to ensure the sonde is taking proper readings. Once the sondes are in the water, data can be viewed regularly back at the EMDA offices while the sondes are deployed. If any problems are observed in the data, an attempt is made to troubleshoot and replace the sonde if necessary. Summer deployments are kept to a maximum of two weeks in the water due to fouling concerns. All field work information is recorded on a Field Sheet as to aid in any troubleshooting during data editing.

### ***Data Management***

Currently, the Bullock's Reach and Phillipsdale Landing sites are programmed to transmit data every hour to a computer at NBC. The data can be uploaded and viewed by EMDA staff anytime in order to assess and troubleshoot problems. The data is also available hourly to the public on the NBC Snapshot website <http://snapshot.narrabay.com/app/>. Data files are also downloaded from sondes once back in the lab. A cursory review of the data is made until all data is synthesized at the end of the season, except when particular instances of hypoxia occur that warrant immediate and further evaluation. For Edgewood Shoals, data is not available on the NBC Snapshot website but can be requested directly from the NBC Scientists.

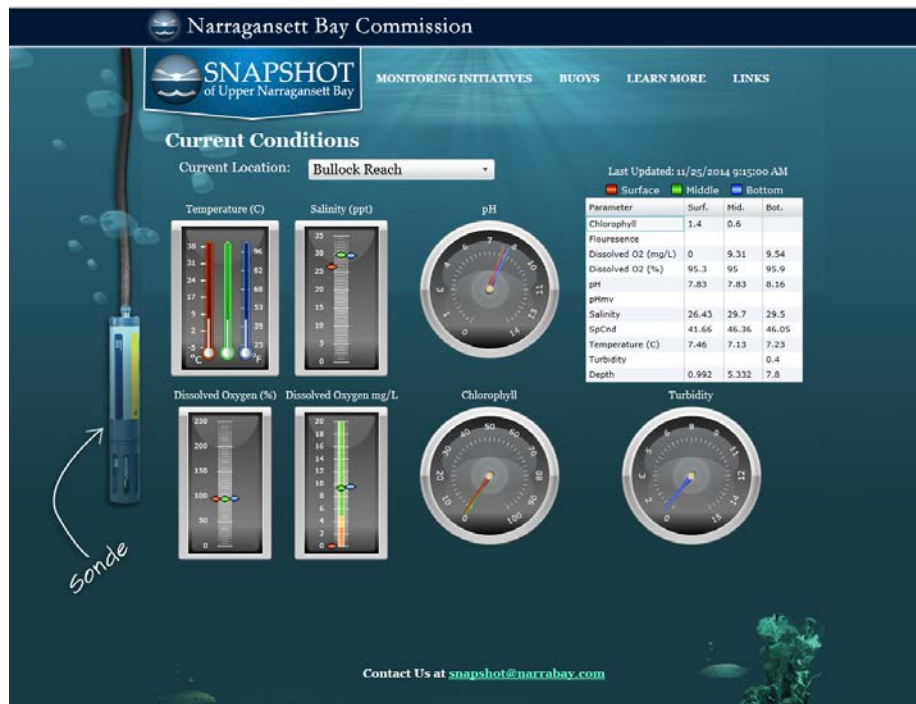
During the summer months, the raw unedited data is also sent to the Fixed-Site Network coordinator to determine if the Bay is experiencing hypoxic conditions and is then posted on the DEM's BART website. At the conclusion of the season, all data is sent to the Fixed-Site Network coordinator for further editing and correcting. The data is not included in paper format with this report as with the other tables due to the extensive nature of this sampling.



## **NBC Snapshot of Upper Narragansett Bay Website**

In 2011, a new webpage was created by the NBC called “Snapshot of Upper Narragansett Bay” (<http://snapshot.narrabay.com/app/>) and was continually updated in 2014 with the most recent data from the receiving waters monitoring program. The webpage includes information and data for all of the NBC receiving waters monitoring, including a blog that is updated weekly with the most recent results of sampling events. Sampling procedures and charts showing data trends are presented for each monitoring initiative and tables with up-to-date monitoring results can be downloaded. The most recent data at the fixed water quality monitoring stations is displayed through dials and gauges as shown in Figure 7 below. This display allows users to quickly assess current water quality conditions. An interactive chart wizard also allows users to choose which fixed-site water quality parameters to chart and display, and users can also choose parameters to display in table format, which can then be downloaded. The NBC Snapshot website represents a comprehensive look at water quality in upper Narragansett Bay by providing the general public with near real-time data and a wide range of information regarding water quality in Narragansett Bay. In 2012, the Narragansett Bay Commission received a National Association of Clean Water Agencies (NACWA) National Environmental Achievement Award for Excellence in Public Information and Education for the Snapshot website. NACWA’s Public Information and Education Awards are presented for outstanding programs in video, printed publications, educational programs, or e-media.

**Figure 7: NBC’s Snapshot of Upper Narragansett Bay Website**



Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
1/1/2014	2.0	33.53	104.00	145.31	2.33	2.89
1/2/2014	2.0	35.37	168.67	172.50	4.33	2.71
1/3/2014	2.0	36.02	114.00	168.95	2.67	2.60
1/4/2014	2.0	36.26	118.00	161.76	5.33	3.15
1/5/2014	2.0	45.32	177.33	191.98	6.67	2.99
1/6/2014	2.8	62.68	150.00	124.60	9.33	4.08
1/7/2014	2.0	50.42	106.67	155.52	6.00	3.62
1/8/2014	2.0	39.28	159.33	168.72	13.33	2.94
1/9/2014	2.0	35.54	140.00	181.35	6.00	2.93
1/10/2014	2.0	41.70	141.33	158.96	3.00	2.99
1/11/2014	2.0	61.44	204.00	137.55	7.33	3.55
1/12/2014	4.0	65.44	75.33	100.71	7.67	3.05
1/13/2014	2.0	51.37	106.00	130.61	2.00	3.01
1/14/2014	2.0	61.03	118.00	106.86	6.00	2.88
1/15/2014	2.0	65.15	85.33	100.76	7.00	2.96
1/16/2014	2.0	43.53	120.00	158.31	6.00	3.13
1/17/2014	2.0	45.03	104.67	156.04	3.67	4.01
1/18/2014	2.0	60.21	104.00	115.52	5.33	5.01
1/19/2014	2.0	49.16	80.00	132.05	3.33	3.15
1/20/2014	2.0	44.24	108.00	157.56	4.33	3.16
1/21/2014	2.0	42.47	116.00	180.73	6.33	3.91
1/22/2014	2.5	40.18	136.00	210.16	11.00	3.47
1/23/2014	2.0	40.65	122.67	186.89	5.67	2.64
1/24/2014	2.0	45.59	110.67	151.93	4.67	2.74
1/25/2014	4.0	40.13	128.00	169.83	11.33	3.65
1/26/2014	2.0	39.33	122.00	171.96	7.67	3.37
1/27/2014	2.0	42.64	152.67	196.24	7.00	3.22
1/28/2014	2.0	37.54	147.33	161.82	7.00	2.70
1/29/2014	2.0	38.38	187.33	166.07	8.00	3.00
1/30/2014	2.0	38.92	174.00	168.48	6.33	3.04
1/31/2014	2.0	38.23	142.67	177.51	2.33	3.53
2/1/2014	2.0	38.16	135.33	230.09	3.33	3.14
2/2/2014	2.0	36.11	145.33	188.57	6.67	3.09
2/3/2014	2.0	38.79	152.00	188.06	7.00	3.22
2/4/2014	2.0	37.10	152.00	169.46	7.00	3.57
2/5/2014	2.0	36.66	167.33	193.48	8.00	3.01
2/6/2014	2.0	39.02	152.00	169.85	13.33	2.85
2/7/2014	2.0	35.44	132.00	201.16	4.33	3.00
2/8/2014	2.0	34.12	139.33	191.53	5.67	3.20
2/9/2014	2.0	36.07	136.00	190.05	8.33	2.82
2/10/2014	2.0	36.85	154.67	186.83	9.67	3.66
2/11/2014	2.0	33.04	166.67	214.72	13.00	3.76
2/12/2014	2.0	36.09	159.33	197.75	9.33	2.99
2/13/2014	2.0	59.20	214.67	145.23	10.33	4.73
2/14/2014	2.0	65.38	105.33	117.35	7.33	3.83

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
2/15/2014	2.0	53.37	87.33	131.66	6.67	3.77
2/16/2014	2.0	47.63	100.00	136.76	16.33	5.15
2/17/2014	2.0	40.80	138.00	183.23	9.00	3.43
2/18/2014	2.0	39.42	139.33	193.31	4.67	3.38
2/19/2014	5.8	54.98	210.00	148.14	7.00	3.02
2/20/2014	2.8	60.99	111.33	118.28	7.67	3.95
2/21/2014	2.0	68.31	126.67	110.28	6.00	3.53
2/22/2014	2.0	60.50	64.67	112.37	2.00	3.98
2/23/2014	2.0	52.94	88.00	125.49	7.00	3.03
2/24/2014	2.0	49.50	116.67	141.56	6.33	3.49
2/25/2014	2.0	50.08	128.00	146.11	5.67	2.97
2/26/2014	2.0	46.42	122.00	160.11	8.67	4.87
2/27/2014	2.0	45.52	114.67	138.01	7.67	3.31
2/28/2014	2.0	45.11	112.00	147.42	6.33	3.47
3/1/2014	2.0	43.00	114.67	159.40	4.33	3.07
3/2/2014	2.0	42.94	125.33	167.47	5.00	4.71
3/3/2014	2.0	40.22	140.00	184.81	8.00	3.36
3/4/2014	2.0	41.56	146.00	169.66	6.00	3.42
3/5/2014	2.0	40.59	159.33	185.47	6.67	3.41
3/6/2014	2.0	38.81	190.67	180.40	2.67	3.00
3/7/2014	2.0	41.00	128.00	168.08	3.00	2.76
3/8/2014	2.0	38.81	139.33	178.72	4.67	3.13
3/9/2014	2.0	38.41	113.33	161.24	4.67	3.05
3/10/2014	2.0	41.87	215.33	191.51	5.67	3.42
3/11/2014	2.0	37.48	176.00	198.60	3.33	4.12
3/12/2014	2.0	51.18	209.33	199.32	4.33	10.36
3/13/2014	2.0	48.20	99.33	183.20	5.67	3.66
3/14/2014	2.0	41.26	103.33	192.34	5.67	3.74
3/15/2014	2.0	40.94	113.33	192.67	5.67	3.99
3/16/2014	2.0	39.55	132.00	162.33	3.67	3.76
3/17/2014	2.0	40.77	116.00	177.13	7.33	3.85
3/18/2014	2.0	43.34	132.00	184.24	7.33	5.62
3/19/2014	2.5	51.50	183.33	178.71	14.33	4.04
3/20/2014	2.0	45.85	126.67	171.35	9.67	3.20
3/21/2014	2.0	40.22	124.00	159.90	3.33	3.23
3/22/2014	2.0	39.78	106.00	177.84	6.67	3.91
3/23/2014	2.0	41.66	113.33	173.21	5.33	3.83
3/24/2014	2.0	40.08	121.33	182.30	5.67	3.92
3/25/2014	2.0	42.55	138.00	174.86	6.00	3.31
3/26/2014	2.0	38.02	148.67	180.75	13.00	5.37
3/27/2014	2.0	39.44	165.33	161.53	6.67	2.84
3/28/2014	2.0	37.94	171.33	178.57	3.00	3.25
3/29/2014	2.8	86.36	192.00	160.04	5.67	3.10
3/30/2014	2.8	114.45	76.00	68.40	8.33	3.88
3/31/2014	2.8	86.87	68.00	82.85	7.67	5.14
4/1/2014	2.0	70.85	85.33	108.82	8.33	4.63

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
4/2/2014	2.0	70.32	121.33	97.90	7.00	3.86
4/3/2014	2.0	60.74	124.67	121.39	6.33	3.79
4/4/2014	2.0	62.24	133.33	118.35	4.67	4.20
4/5/2014	2.0	56.83	114.00	165.21	4.67	4.64
4/6/2014	2.0	52.74	87.33	128.69	5.00	2.93
4/7/2014	2.0	67.12	165.33	139.57	6.33	3.56
4/8/2014	2.0	68.06	100.00	108.85	4.33	4.44
4/9/2014	2.0	56.00	92.00	135.23	4.00	4.32
4/10/2014	2.0	52.95	126.67	125.21	8.33	2.77
4/11/2014	2.0	51.48	158.67	127.15	4.00	2.46
4/12/2014	2.0	48.79	132.00	156.37	2.67	3.08
4/13/2014	2.0	49.88	100.67	135.45	7.33	2.92
4/14/2014	2.0	48.62	189.33	169.78	11.33	6.14
4/15/2014	2.0	83.41	174.67	109.88	11.33	3.72
4/16/2014	2.0	68.75	105.33	123.75	4.33	3.25
4/17/2014	2.0	69.64	92.00	102.70	4.33	3.07
4/18/2014	2.0	69.92	67.33	104.56	4.00	2.41
4/19/2014	2.0	58.03	79.33	136.16	8.00	2.43
4/20/2014	2.0	48.22	103.33	123.17	10.33	3.04
4/21/2014	2.0	50.19	112.67	133.90	6.33	4.71
4/22/2014	2.0	48.91	112.00	150.33	6.67	4.61
4/23/2014	2.0	57.96	138.67	149.14	9.00	3.51
4/24/2014	2.0	45.24	103.33	149.07	5.00	2.97
4/25/2014	2.0	47.12	102.00	161.48	2.00	2.85
4/26/2014	2.0	54.08	120.67	151.27	2.33	3.56
4/27/2014	2.0	46.55	98.67	148.79	4.67	3.80
4/28/2014	2.0	44.15	119.33	148.67	6.67	3.00
4/29/2014	2.0	44.89	138.00	202.13	8.67	3.37
4/30/2014	2.5	62.70	128.00	136.17	7.33	3.56
5/1/2014	2.0	75.82	80.00	104.61	3.67	3.18
5/2/2014	2.0	70.88	63.33	103.82	5.33	3.69
5/3/2014	2.8	69.44	72.67	120.38	4.33	3.85
5/4/2014	2.8	51.12	84.00	147.91	4.67	4.18
5/5/2014	2.0	48.46	116.00	169.25	7.33	4.22
5/6/2014	2.0	46.36	121.33	171.93	3.67	4.05
5/7/2014	2.0	48.87	116.67	158.59	3.33	3.75
5/8/2014	2.0	45.14	137.33	169.21	3.67	3.98
5/9/2014	2.0	45.78	113.33	170.51	3.67	4.30
5/10/2014	2.0	44.72	124.67	177.81	2.33	4.71
5/11/2014	2.0	42.29	132.00	183.25	7.00	4.87
5/12/2014	2.0	44.47	125.33	207.43	8.00	4.17
5/13/2014	2.0	41.66	121.33	181.51	3.67	4.46
5/14/2014	2.0	42.64	130.00	171.34	3.00	4.66
5/15/2014	2.0	41.35	156.67	177.51	13.33	4.00
5/16/2014	2.0	48.04	180.67	198.86	7.00	4.85
5/17/2014	2.0	57.70	115.33	141.75	5.33	5.61

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
5/18/2014	2.0	48.71	100.00	133.34	9.33	4.80
5/19/2014	2.0	40.35	123.33	147.02	4.00	3.98
5/20/2014	2.0	41.34	118.67	155.65	6.33	3.81
5/21/2014	2.0	40.24	152.00	176.78	5.67	3.93
5/22/2014	2.0	44.14	153.33	174.83	6.00	4.99
5/23/2014	2.0	39.83	126.00	164.97	5.00	5.27
5/24/2014	2.0	37.58	130.67	185.64	7.33	5.12
5/25/2014	2.8	38.06	121.33	161.82	8.33	5.45
5/26/2014	2.0	37.75	120.00	177.54	5.67	6.22
5/27/2014	2.0	37.79	182.00	189.78	8.67	7.23
5/28/2014	2.0	36.13	133.33	185.08	4.67	5.12
5/29/2014	2.0	38.13	129.33	162.87	4.00	6.35
5/30/2014	2.0	40.98	188.67	207.98	5.33	6.79
5/31/2014	2.0	37.44	193.33	169.53	4.67	7.13
6/1/2014	2.0	33.20	135.33	160.34	12.00	7.54
6/2/2014	2.0	35.52	137.33	198.92	7.33	8.07
6/3/2014	2.0	38.31	150.00	185.83	6.00	7.32
6/4/2014	2.0	35.50	165.33	196.30	7.00	6.48
6/5/2014	2.0	50.37	148.00	151.32	4.33	7.25
6/6/2014	2.0	43.11	122.00	143.83	5.00	7.77
6/7/2014	2.0	34.49	144.00	176.25	8.00	8.21
6/8/2014	2.0	33.50	127.33	164.55	5.67	8.52
6/9/2014	2.0	44.86	219.33	179.22	11.00	7.28
6/10/2014	2.0	55.76	148.00	128.19	7.67	7.29
6/11/2014	2.0	39.37	159.33	186.56	4.33	6.71
6/12/2014	2.0	35.06	162.00	196.89	4.67	7.41
6/13/2014	2.0	65.71	152.67	116.38	7.67	8.90
6/14/2014	2.0	60.45	96.67	112.09	7.00	10.54
6/15/2014	2.0	54.20	96.00	114.91	7.33	10.84
6/16/2014	2.0	35.95	164.00	166.06	8.67	8.76
6/17/2014	2.0	38.19	150.00	174.18	8.67	3.94
6/18/2014	2.0	38.86	150.67	179.83	3.67	2.53
6/19/2014	2.0	37.40	129.33	200.16	4.67	2.59
6/20/2014	2.0	37.19	128.67	183.52	2.00	3.31
6/21/2014	2.0	33.75	142.00	205.70	7.00	3.45
6/22/2014	2.0	33.87	120.67	200.91	2.67	3.58
6/23/2014	2.0	35.42	154.67	218.87	7.67	4.65
6/24/2014	2.0	34.92	140.00	194.84	2.00	5.14
6/25/2014	2.0	38.71	148.67	191.31	3.00	5.98
6/26/2014	2.0	35.10	152.00	211.01	2.00	5.06
6/27/2014	2.0	34.10	127.33	184.71	2.00	5.40
6/28/2014	2.8	34.22	146.00	190.40	6.33	5.68
6/29/2014	2.0	32.00	140.67	178.97	6.33	6.54
6/30/2014	2.8	35.15	138.67	210.45	2.33	6.70
7/1/2014	2.0	33.80	158.67	220.25	2.67	7.14
7/2/2014	2.0	34.07	149.33	201.61	3.67	7.37

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
7/3/2014	2.0	36.19	154.67	196.98	2.00	8.06
7/4/2014	2.0	68.08	126.00	131.09	5.33	7.12
7/5/2014	2.0	61.83	66.00	116.29	5.33	8.13
7/6/2014	2.0	54.42	82.67	106.29	2.67	10.25
7/7/2014	2.0	36.37	124.00	175.25	4.33	11.34
7/8/2014	2.0	34.97	124.67	149.70	4.33	9.12
7/9/2014	2.0	35.26	122.67	158.17	4.33	9.13
7/10/2014	2.0	37.28	144.00	158.41	4.33	9.55
7/11/2014	2.8	33.94	131.33	162.44	4.00	8.00
7/12/2014	2.0	32.07	140.00	188.83	4.00	8.82
7/13/2014	2.0	35.14	148.67	169.86	5.33	8.66
7/14/2014	2.0	36.28	173.33	196.62	7.33	9.47
7/15/2014	2.0	34.80	158.67	185.09	7.67	9.29
7/16/2014	2.0	59.51	126.00	116.57	8.33	8.79
7/17/2014	2.0	48.96	101.33	141.25	5.00	9.12
7/18/2014	2.0	33.81	122.67	206.75	2.00	7.98
7/19/2014	2.0	32.16	154.00	212.58	5.00	7.40
7/20/2014	2.0	31.84	135.33	182.53	3.00	7.23
7/21/2014	2.0	35.39	146.67	211.48	5.33	5.61
7/22/2014	2.0	33.20	140.67	182.96	3.67	2.75
7/23/2014	2.0	33.43	171.33	197.11	6.33	2.67
7/24/2014	7.2	33.37	170.00	192.61	8.67	2.81
7/25/2014	2.0	33.69	172.67	195.12	4.67	4.30
7/26/2014	4.0	32.98	128.00	191.01	2.00	3.95
7/27/2014	2.0	32.34	154.67	181.09	8.00	3.91
7/28/2014	2.0	35.45	201.33	206.71	6.67	5.88
7/29/2014	2.0	33.22	127.33	184.64	6.33	5.61
7/30/2014	2.0	32.42	135.33	194.44	5.33	5.56
7/31/2014	5.7	33.04	163.33	177.86	5.67	5.59
8/1/2014	4.0	31.43	129.33	161.85	8.67	5.75
8/2/2014	2.8	33.61	182.67	211.64	5.33	5.42
8/3/2014	2.8	30.86	135.33	178.90	4.67	6.43
8/4/2014	2.0	33.19	152.00	212.16	4.67	9.34
8/5/2014	2.0	32.86	155.33	195.29	4.67	8.78
8/6/2014	2.0	31.18	144.00	182.03	3.33	7.49
8/7/2014	2.8	31.45	161.33	185.37	5.67	7.46
8/8/2014	2.0	31.59	126.67	172.29	8.67	8.41
8/9/2014	2.0	31.86	145.33	200.13	8.33	9.05
8/10/2014	5.7	28.85	148.00	196.54	4.33	8.81
8/11/2014	2.8	29.95	155.33	219.35	5.67	9.42
8/12/2014	2.0	37.74	180.00	206.11	7.67	9.05
8/13/2014	2.5	89.12	95.33	76.66	9.33	8.84
8/14/2014	2.0	63.83	64.67	88.74	4.67	7.94
8/15/2014	2.0	61.62	60.00	91.70	6.33	8.35
8/16/2014	2.0	38.57	117.33	184.48	4.67	8.33
8/17/2014	4.0	32.35	118.67	162.06	4.33	8.79

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
8/18/2014	2.0	34.42	124.00	175.65	4.67	5.95
8/19/2014	2.0	33.77	153.33	179.98	3.00	3.27
8/20/2014	2.0	34.64	154.67	199.31	3.67	3.21
8/21/2014	2.0	32.72	138.00	170.89	3.33	3.24
8/22/2014	2.0	31.80	138.67	177.73	2.33	4.39
8/23/2014	2.0	33.73	160.67	192.53	4.33	4.93
8/24/2014	2.0	31.31	140.67	177.08	5.33	5.35
8/25/2014	2.0	34.01	179.33	223.27	8.33	7.39
8/26/2014	2.0	30.62	148.00	236.86	6.00	7.00
8/27/2014	2.0	32.23	143.33	207.61	3.33	7.21
8/28/2014	2.0	34.48	144.67	154.26	3.00	6.32
8/29/2014	2.8	30.44	160.00	194.26	6.00	7.34
8/30/2014	2.0	30.07	162.67	186.97	10.67	7.15
8/31/2014	2.0	36.33	197.33	167.99	8.67	7.85
9/1/2014	2.0	36.39	122.67	153.14	10.33	8.36
9/2/2014	2.0	31.92	145.33	203.62	8.67	9.30
9/3/2014	2.0	30.41	165.33	175.92	4.00	8.32
9/4/2014	2.0	32.66	161.33	189.45	4.67	8.51
9/5/2014	2.0	32.20	154.67	185.15	4.67	9.35
9/6/2014	2.0	37.88	188.00	240.78	6.33	13.32
9/7/2014	2.0	39.33	158.00	165.74	7.33	11.59
9/8/2014	2.0	31.79	144.00	187.41	8.67	9.98
9/9/2014	2.0	32.30	185.33	192.47	13.33	9.86
9/10/2014	2.5	32.19	154.00	180.11	5.67	11.20
9/11/2014	2.0	31.85	195.33	189.76	10.67	11.41
9/12/2014	2.0	30.26	160.00	198.03	2.33	9.75
9/13/2014	4.0	38.24	176.67	184.65	6.33	10.27
9/14/2014	2.0	30.39	157.33	177.95	12.33	9.83
9/15/2014	7.2	29.96	134.00	202.20	5.33	7.48
9/16/2014	2.8	31.06	174.67	200.01	7.67	5.62
9/17/2014	2.0	28.95	155.33	196.91	14.33	4.11
9/18/2014	2.0	30.13	177.33	217.58	15.00	3.45
9/19/2014	2.8	30.41	139.33	209.05	5.00	3.63
9/20/2014	2.8	29.46	162.00	246.45	6.33	4.64
9/21/2014	2.8	30.24	185.33	206.39	5.67	5.03
9/22/2014	2.0	29.78	168.67	227.88	4.33	4.35
9/23/2014	2.0	28.28	166.00	230.43	5.00	4.23
9/24/2014	2.0	32.93	171.33	205.48	11.67	4.42
9/25/2014	2.0	28.49	219.33	246.74	8.67	6.07
9/26/2014	2.8	27.41	134.00	197.39	6.67	6.34
9/27/2014	2.0	28.43	140.00	229.56	5.67	9.00
9/28/2014	3.7	28.73	158.00	222.76	6.67	7.63
9/29/2014	2.0	33.34	186.00	252.87	10.33	7.13
9/30/2014	2.0	30.07	186.67	245.94	9.33	7.82
10/1/2014	4.5	46.39	168.00	214.22	7.67	7.29
10/2/2014	6.6	47.51	109.33	215.60	6.67	6.46

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
10/3/2014	2.8	33.22	136.67	221.35	6.33	7.39
10/4/2014	2.0	40.37	159.33	220.35	8.67	7.73
10/5/2014	2.0	31.44	102.67	192.88	3.33	6.36
10/6/2014	4.0	32.06	134.00	240.98	4.00	6.87
10/7/2014	2.0	30.20	150.67	232.95	6.67	7.50
10/8/2014	2.0	29.03	137.33	212.91	3.33	7.61
10/9/2014	2.0	32.73	147.33	231.49	5.33	7.02
10/10/2014	2.0	28.85	194.00	251.70	2.67	7.64
10/11/2014	5.7	39.36	144.00	200.81	4.67	7.21
10/12/2014	2.0	28.40	128.00	194.41	6.33	6.36
10/13/2014	2.0	28.77	120.00	260.40	3.00	8.51
10/14/2014	2.0	30.85	133.33	205.27	5.33	9.17
10/15/2014	2.5	29.67	154.67	222.75	6.33	9.62
10/16/2014	2.0	46.47	150.67	172.50	4.33	8.50
10/17/2014	2.0	43.87	90.67	161.88	3.33	7.23
10/18/2014	2.0	29.84	126.00	211.98	7.33	7.87
10/19/2014	2.0	28.27	124.00	208.38	9.00	6.00
10/20/2014	2.0	32.39	162.67	220.70	9.00	8.90
10/21/2014	2.0	31.97	192.67	230.33	6.33	4.31
10/22/2014	2.5	48.28	249.33	175.60	17.67	3.83
10/23/2014	2.0	58.93	94.00	122.33	8.67	4.27
10/24/2014	2.0	52.53	69.33	115.64	3.00	2.92
10/25/2014	2.8	32.07	128.00	203.39	6.33	3.11
10/26/2014	2.0	30.42	129.33	182.80	9.67	3.35
10/27/2014	2.0	31.45	158.67	212.11	10.33	3.30
10/28/2014	2.0	32.34	126.00	191.43	5.00	4.55
10/29/2014	2.0	30.26	182.00	200.10	18.33	6.23
10/30/2014	2.0	29.35	147.33	183.89	2.33	4.90
10/31/2014	2.8	31.58	148.00	203.70	2.00	5.07
11/1/2014	2.0	37.60	191.33	213.61	8.00	5.76
11/2/2014	2.0	36.06	121.33	156.60	5.67	5.33
11/3/2014	2.0	30.33	148.67	217.51	9.33	6.08
11/4/2014	2.0	30.30	160.00	210.18	8.67	8.27
11/5/2014	2.0	31.10	150.67	194.47	5.33	8.01
11/6/2014	2.0	47.67	164.00	190.30	13.33	6.96
11/7/2014	2.0	32.08	119.33	208.67	3.33	5.19
11/8/2014	2.0	29.43	134.00	215.00	9.33	5.72
11/9/2014	2.0	33.44	142.00	194.91	6.00	6.31
11/10/2014	2.0	28.04	197.33	256.18	7.33	4.57
11/11/2014	2.0	29.32	165.33	208.21	5.00	3.26
11/12/2014	2.0	31.78	160.67	226.94	3.33	3.38
11/13/2014	5.3	34.47	168.00	220.18	3.67	2.91
11/14/2014	2.8	30.79	116.00	190.13	5.33	2.91
11/15/2014	2.0	28.44	114.00	224.80	5.33	3.37
11/16/2014	3.5	34.68	190.00	206.24	4.33	3.07
11/17/2014	42.4	63.81	134.00	143.44	7.33	3.42

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data



Field's Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data

<b>Date</b>	<b>Fecal Coliform Bacteria (MPN/100mL)</b>	<b>Influent Flow (MGD)</b>	<b>Raw Influent TSS (mg/L)</b>	<b>Raw Influent BOD (mg/L)</b>	<b>Final Effluent TSS (mg/L)</b>	<b>Final Effluent BOD (mg/L)</b>
11/18/2014	2.0	57.03	82.00	122.38	11.33	6.54
11/19/2014	2.0	57.60	104.67	136.45	3.33	4.87
11/20/2014	2.0	39.87	112.67	173.76	3.33	5.31
11/21/2014	2.0	31.37	152.67	256.69	5.67	3.32
11/22/2014	2.0	33.09	134.00	216.91	4.33	3.97
11/23/2014	2.0	35.57	173.33	177.33	8.33	4.12
11/24/2014	3.7	58.84	124.67	125.83	6.00	5.71
11/25/2014	2.0	59.24	92.67	140.80	7.33	6.68
11/26/2014	2.0	67.12	82.67	122.24	5.33	4.70
11/27/2014	2.0	64.23	75.33	122.11	7.33	6.52
11/28/2014	2.0	64.42	80.67	136.76	6.33	6.30
11/29/2014	2.0	42.06	121.33	172.64	6.33	5.19
11/30/2014	2.0	38.84	112.00	168.37	4.33	8.52
12/1/2014	2.0	38.70	154.67	187.72	16.67	8.99
12/2/2014	2.0	41.04	144.00	184.97	4.33	6.00
12/3/2014	2.0	44.03	147.33	171.16	8.33	7.36
12/4/2014	2.0	37.49	140.67	166.65	8.00	5.38
12/5/2014	2.8	42.70	148.67	187.52	7.67	5.99
12/6/2014	2.0	57.84	104.00	138.99	4.67	6.88
12/7/2014	2.0	59.12	74.00	125.67	9.00	8.00
12/8/2014	2.0	50.90	120.67	128.70	7.67	5.23
12/9/2014	2.0	86.04	90.67	76.73	8.33	8.84
12/10/2014	3.2	82.47	84.67	99.90	23.33	10.44
12/11/2014	4.0	71.48	62.67	98.99	7.67	6.77
12/12/2014	2.0	69.74	72.00	120.68	7.67	7.23
12/13/2014	4.0	69.99	80.67	113.43	7.67	7.45
12/14/2014	2.0	54.84	80.00	122.70	7.67	6.83
12/15/2014	2.0	46.02	89.33	155.03	5.67	6.73
12/16/2014	7.7	48.97	114.67	144.77	5.67	5.23
12/17/2014	2.0	54.68	86.67	134.93	5.33	3.97
12/18/2014	2.0	42.31	94.67	138.49	4.67	3.95
12/19/2014	2.0	40.84	98.00	161.44	4.67	3.97
12/20/2014	2.0	43.39	118.67	198.20	5.33	5.22
12/21/2014	2.0	41.37	145.33	149.38	5.33	3.50
12/22/2014	2.0	41.56	124.00	177.77	6.00	4.49
12/23/2014	2.8	48.55	130.00	145.57	5.00	3.85
12/24/2014	2.0	53.45	111.33	156.09	5.00	5.20
12/25/2014	2.0	60.01	60.67	115.51	4.67	4.63
12/26/2014	2.0	42.53	68.67	150.27	5.33	4.48
12/27/2014	2.0	42.76	69.33	177.80	4.00	4.71
12/28/2014	2.0	40.72	112.00	174.57	9.67	5.42
12/29/2014	2.0	39.38	118.67	160.66	10.67	5.38
12/30/2014	2.0	41.51	138.00	151.17	13.00	6.99
12/31/2014	3.0	38.69	128.67	201.15	7.67	5.00

Table 1: Field's Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
1/1/2014	2.6		18.42	148.00	182.35	2.00	2.25
1/2/2014	2.0		18.84	174.67	226.57	3.00	1.95
1/3/2014	2.4		18.23	109.33	175.59	2.67	2.25
1/4/2014	2.0		18.69	117.33	180.09	7.33	3.08
1/5/2014	2.0		19.70	174.67	179.25	5.33	2.91
1/6/2014	7.2		51.60	182.67	174.59	17.33	6.56
1/7/2014	2.0		20.09	122.67	165.16	7.33	2.87
1/8/2014	2.0		20.15	142.00	168.62	6.33	4.30
1/9/2014	3.2		19.72	160.67	220.02	9.00	3.27
1/10/2014	2.0		20.93	147.33	183.35	4.67	2.16
1/11/2014	2.0		46.00	155.33	169.94	3.33	3.09
1/12/2014	2.8		25.85	145.33	109.19	6.67	2.87
1/13/2014	2.4		21.53	108.00	174.58	2.33	2.24
1/14/2014	2.4		41.57	171.33	188.50	5.00	2.74
1/15/2014	2.0		24.00	114.67	120.92	8.00	2.36
1/16/2014	2.4		23.29	140.00	166.25	10.00	2.98
1/17/2014	2.7		22.05	111.33	157.50	3.33	2.68
1/18/2014	3.1		36.37	128.67	165.56	6.67	3.44
1/19/2014	2.0		22.56	87.33	134.68	7.33	3.20
1/20/2014	3.8		23.22	120.67	161.15	10.00	3.07
1/21/2014	2.0		21.87	121.33	177.61	6.67	3.21
1/22/2014	2.0		21.30	119.33	166.40	9.00	4.55
1/23/2014	2.0		21.04	130.67	168.70	7.67	2.81
1/24/2014	4.0		20.74	164.00	188.02	5.00	3.02
1/25/2014	2.8		21.96	131.33	195.73	5.33	3.20
1/26/2014	2.4		20.84	113.33	157.95	5.00	3.82
1/27/2014	4.5		21.94	141.33	187.83	5.00	3.07
1/28/2014	6.0		20.05	152.00	209.55	4.33	3.47
1/29/2014	3.0		19.84	148.67	178.87	7.00	2.87
1/30/2014	2.0		19.67	153.33	158.67	4.33	3.05
1/31/2014	2.0		19.76	136.67	165.38	6.67	4.01
2/1/2014	2.4		19.72	163.33	227.28	2.33	2.89
2/2/2014	2.8		19.81	139.33	214.09	6.67	2.42
2/3/2014	4.8		20.29	134.00	198.53	4.67	3.21
2/4/2014	3.3		19.95	158.00	181.69	7.00	3.76
2/5/2014	3.8		20.05	135.33	189.10	8.00	3.01
2/6/2014	3.4		19.50	165.33	203.63	7.00	3.40
2/7/2014	2.0		18.72	140.00	222.78	4.00	4.19
2/8/2014	3.4		19.06	160.00	195.01	8.67	4.03
2/9/2014	2.4		18.61	164.00	203.51	9.67	4.21
2/10/2014	2.7		18.24	156.67	217.00	8.33	4.85
2/11/2014	3.3		17.81	191.33	225.68	8.00	4.21
2/12/2014	6.7		17.98	188.00	202.08	10.67	5.92
2/13/2014	9.5		35.13	190.00	205.80	19.00	15.28
2/14/2014	22.6		42.14	183.33	146.35	12.33	8.11
2/15/2014	2.4		21.12	100.67	157.98	11.67	5.37
2/16/2014	7.4		19.94	121.33	170.40	6.67	4.16

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent	
	Bacteria (MPN/100 ml)					TSS (mg/L)	BOD (mg/L)
2/17/2014	2.4		19.19	144.00	195.01	10.00	4.46
2/18/2014	2.4		20.48	146.00	185.72	11.00	4.61
2/19/2014	5.8		28.53	143.33	180.73	14.67	9.37
2/20/2014	3.6		31.21	156.67	130.21	12.67	5.70
2/21/2014	2.4		38.65	115.33	119.65	13.67	6.10
2/22/2014	5.3		30.61	124.67	132.76	8.67	6.93
2/23/2014	4.0		26.98	92.00	126.16	11.33	4.47
2/24/2014	5.6		24.95	111.33	147.51	8.33	4.51
2/25/2014	2.9		25.02	118.67	146.40	8.67	3.54
2/26/2014	2.3		24.89	101.33	148.72	11.00	5.34
2/27/2014	4.8		24.52	112.00	175.30	9.67	5.82
2/28/2014	2.8		21.93	132.67	157.19	9.33	4.62
3/1/2014	3.1		22.62	108.67	158.81	4.33	3.87
3/2/2014	2.4		23.05	122.00	177.93	9.33	4.93
3/3/2014	2.0		22.29	130.67	175.85	10.67	4.77
3/4/2014	3.4		21.70	133.33	170.48	9.67	4.88
3/5/2014	2.6		21.73	125.33	171.56	9.33	5.12
3/6/2014	2.4		20.29	131.33	204.45	6.33	4.33
3/7/2014	3.3		21.03	116.67	165.75	2.00	3.66
3/8/2014	2.0		21.60	142.00	176.80	6.67	4.43
3/9/2014	2.4		20.62	158.00	189.30	6.67	4.18
3/10/2014	2.7		21.21	136.00	174.18	8.00	4.32
3/11/2014	3.4		21.99	156.00	172.50	7.67	4.11
3/12/2014	2.3		31.05	150.00	189.91	11.67	7.68
3/13/2014	3.3		24.37	154.00	203.55	9.00	5.59
3/14/2014	2.8		22.07	98.67	193.48	7.00	9.32
3/15/2014	2.4		22.38	114.67	181.97	6.33	6.44
3/16/2014	2.0		21.20	114.67	158.19	7.33	4.14
3/17/2014	2.4		20.80	116.00	170.21	8.00	3.57
3/18/2014	2.0		20.50	109.33	211.68	7.33	4.79
3/19/2014	3.0		21.42	135.33	178.19	10.00	5.28
3/20/2014	11.8		32.04	167.33	161.98	13.67	4.97
3/21/2014	2.0		21.24	102.67	150.73	7.67	4.89
3/22/2014	2.4		21.58	134.67	186.41	5.67	3.44
3/23/2014	2.8		21.22	146.00	204.50	7.00	4.62
3/24/2014	2.4		20.18	132.67	168.48	15.33	5.56
3/25/2014	4.4		20.57	156.00	207.88	6.67	3.44
3/26/2014	2.6		21.29	131.33	168.75	10.67	6.62
3/27/2014	2.0		19.55	158.00	193.05	7.00	4.36
3/28/2014	2.7		20.91	139.33	195.97	6.00	3.23
3/29/2014	2.0		34.25	156.00	210.26	13.67	6.04
3/30/2014	10.1		85.81	154.67	132.81	12.00	6.08
3/31/2014	3.3		64.85	80.67	69.60	13.33	6.62
4/1/2014	6.1		40.39	76.00	93.52	17.00	8.17
4/2/2014	3.6		34.39	78.67	98.60	11.33	6.36
4/3/2014	3.4		31.67	94.67	135.91	7.33	4.19
4/4/2014	3.4		30.74	87.33	114.91	8.67	4.06

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
4/5/2014	3.4		33.67	118.67	143.97	7.33	4.69
4/6/2014	2.4		27.11	93.33	145.72	4.67	3.52
4/7/2014	2.4		27.75	111.33	132.02	19.00	8.69
4/8/2014	22.8		48.36	129.33	109.65	16.33	9.78
4/9/2014	2.8		27.86	104.67	138.34	7.67	4.49
4/10/2014	2.0		26.66	117.33	165.08	8.33	3.27
4/11/2014	2.0		26.71	116.00	148.55	4.00	2.80
4/12/2014	2.0		25.31	120.67	164.83	4.33	3.14
4/13/2014	2.0		25.66	135.33	151.96	8.00	3.74
4/14/2014	2.0		26.10	157.33	161.02	24.33	9.67
4/15/2014	2.0		52.42	146.00	158.74	23.67	14.16
4/16/2014	3.9		46.10	87.33	92.95	9.00	6.09
4/17/2014	6.5		28.95	89.33	128.25	8.00	4.70
4/18/2014	4.8		28.60	97.33	138.39	8.67	5.18
4/19/2014	2.4		27.26	104.00	158.48	4.33	3.46
4/20/2014	2.4		25.73	111.33	149.32	9.00	3.77
4/21/2014	3.4		26.64	113.33	136.53	8.00	5.90
4/22/2014	2.0		26.54	139.33	181.88	7.33	4.77
4/23/2014	2.3		31.11	198.00	197.15	7.33	4.34
4/24/2014	2.0		24.33	123.33	169.50	5.67	3.67
4/25/2014	2.8		23.74	118.00	164.67	5.33	2.58
4/26/2014	2.0		29.76	140.67	163.91	5.67	4.04
4/27/2014	2.0		25.10	109.33	151.74	5.33	3.91
4/28/2014	2.0		23.63	107.33	149.99	7.67	2.92
4/29/2014	2.0		23.85	118.00	168.59	4.67	3.67
4/30/2014	3.0		35.69	149.33	175.89	8.00	4.52
5/1/2014	6.2		53.91	110.00	122.59	10.00	7.51
5/2/2014	2.0		26.62	92.67	147.54	5.00	3.64
5/3/2014	2.0		26.32	98.00	143.41	4.33	2.49
5/4/2014	2.0		24.73	104.67	150.28	2.00	2.65
5/5/2014	2.0		24.28	105.33	155.83	5.67	4.09
5/6/2014	2.4		23.69	125.33	181.61	7.67	3.50
5/7/2014	2.0		23.35	131.33	164.33	5.33	3.49
5/8/2014	4.5		22.99	138.00	171.53	12.67	4.19
5/9/2014	2.4		23.15	151.33	184.38	2.67	2.88
5/10/2014	2.0		23.19	142.67	182.99	5.67	3.86
5/11/2014	2.4		22.08	146.67	202.05	5.00	2.20
5/12/2014	2.0		20.97	125.33	167.78	2.33	4.15
5/13/2014	2.8		21.18	140.67	182.13	7.67	3.33
5/14/2014	2.0		21.23	136.00	204.70	5.00	3.38
5/15/2014	2.0		21.87	168.67	185.00	12.00	3.86
5/16/2014	2.0		28.64	146.67	187.97	12.00	4.66
5/17/2014	2.0		31.00	177.33	163.16	13.00	4.28
5/18/2014	2.8		20.17	116.00	170.20	5.67	2.74
5/19/2014	2.0		21.56	122.67	146.41	6.00	3.45
5/20/2014	2.4		20.51	150.00	174.41	7.33	3.54
5/21/2014	2.0		20.46	155.33	178.91	9.33	4.83

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
5/22/2014	3.4		23.85	166.67	185.01	10.67	4.54
5/23/2014	4.0		20.79	149.33	179.52	6.00	3.71
5/24/2014	2.4		19.91	176.67	207.18	9.00	3.39
5/25/2014	2.8		18.38	146.67	172.70	10.33	3.55
5/26/2014	2.4		19.47	130.00	163.32	8.00	3.93
5/27/2014	2.7		19.21	142.00	171.99	6.33	3.86
5/28/2014	2.0		20.20	161.33	192.29	6.67	4.46
5/29/2014	5.2		18.59	148.67	211.77	5.67	4.48
5/30/2014	4.0		22.28	153.33	212.98	5.00	4.96
5/31/2014	7.6		18.10	156.00	191.01	7.67	5.16
6/1/2014	2.0		17.43	112.00	181.51	2.00	3.39
6/2/2014	2.8		18.48	124.67	197.20	6.33	3.00
6/3/2014	2.0		19.63	183.33	222.12	6.33	3.81
6/4/2014	3.4		20.68	182.67	205.40	5.00	4.37
6/5/2014	3.9		31.55	156.00	203.43	6.67	4.55
6/6/2014	7.6		18.01	115.33	147.33	7.00	2.90
6/7/2014	2.4		16.69	148.00	194.92	6.33	3.44
6/8/2014	4.0		17.10	133.33	194.44	5.33	3.75
6/9/2014	2.0		21.24	150.67	185.38	11.67	3.44
6/10/2014	5.2		29.69	181.33	187.67	11.00	5.75
6/11/2014	3.0		19.20	140.67	164.02	6.67	2.86
6/12/2014	3.4		18.97	126.67	187.24	7.00	3.08
6/13/2014	4.6		44.06	165.33	175.22	11.33	4.70
6/14/2014	2.4		19.18	104.67	152.20	3.67	2.48
6/15/2014	2.0		17.58	114.67	191.13	4.67	2.03
6/16/2014	2.8		17.92	119.33	179.01	4.00	2.46
6/17/2014	2.4		17.82	154.67	199.96	3.67	2.06
6/18/2014	2.3		17.43	172.00	202.91	4.33	2.10
6/19/2014	2.0		16.84	180.00	234.47	2.33	2.34
6/20/2014	2.8		16.31	153.33	219.96	3.33	2.31
6/21/2014	2.0		16.18	148.00	184.19	8.00	2.07
6/22/2014	2.0		15.73	174.00	231.46	3.33	2.09
6/23/2014	2.4		16.19	185.33	261.86	5.67	2.08
6/24/2014	2.0		16.47	172.00	211.12	5.67	2.02
6/25/2014	2.0		16.90	152.67	196.56	3.33	3.66
6/26/2014	2.8		19.03	195.33	235.07	3.00	2.41
6/27/2014	3.4		15.60	159.33	210.39	2.33	2.04
6/28/2014	2.0		15.29	149.33	222.27	2.00	3.00
6/29/2014	2.4		14.86	154.67	190.05	6.33	2.30
6/30/2014	3.4		15.51	146.67	221.96	2.00	2.47
7/1/2014	4.8		15.87	182.00	246.51	3.67	2.67
7/2/2014	3.4		15.91	168.00	247.28	3.00	2.60
7/3/2014	17.3		15.48	182.67	239.56	2.00	2.03
7/4/2014	2.0		48.42	192.00	258.47	6.67	3.22
7/5/2014	2.4		18.02	94.00	124.16	2.67	2.00
7/6/2014	2.0		15.73	123.33	172.06	4.67	2.00
7/7/2014	2.4		16.41	138.67	176.48	4.67	2.25

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent		Final Effluent	
	Bacteria (MPN/100 ml)			TSS (mg/L)	BOD (mg/L)	TSS (mg/L)	BOD (mg/L)
7/8/2014	2.4		16.14	166.67	184.77	6.33	2.51
7/9/2014	2.6		15.92	166.67	179.37	5.00	2.27
7/10/2014	2.4		15.10	180.67	191.98	3.00	2.10
7/11/2014	2.0		15.34	146.00	181.72	2.00	2.00
7/12/2014	2.0		15.00	164.00	213.21	2.00	2.00
7/13/2014	5.6		15.10	152.67	182.32	5.33	2.12
7/14/2014	2.8		16.05	194.67	218.27	4.67	2.14
7/15/2014	3.9		18.15	218.00	197.48	5.33	2.00
7/16/2014	2.5		36.30	180.67	180.75	7.67	2.37
7/17/2014	2.4		15.71	146.00	178.80	2.33	2.00
7/18/2014	2.0		15.07	145.33	199.94	3.33	2.00
7/19/2014	9.8		15.44	144.67	227.77	3.00	2.00
7/20/2014	2.0		14.94	151.33	217.23	3.67	2.00
7/21/2014	3.4		14.66	159.33	220.82	3.33	2.00
7/22/2014	4.8		15.00	174.00	211.29	2.67	2.00
7/23/2014	2.0		15.47	173.33	220.07	5.00	2.17
7/24/2014	2.4		15.27	194.67	231.55	2.00	2.00
7/25/2014	2.8		14.36	178.67	227.72	5.67	2.00
7/26/2014	2.8		15.11	146.67	236.32	4.33	2.00
7/27/2014	2.8		15.27	166.67	224.40	2.00	2.00
7/28/2014	3.1		17.94	183.33	234.00	4.33	2.00
7/29/2014	2.8		14.62	165.33	209.24	4.33	2.00
7/30/2014	3.5		14.39	176.00	229.32	4.33	2.00
7/31/2014	2.8		14.88	172.67	204.32	6.33	2.00
8/1/2014	4.0		14.73	161.33	209.12	6.67	2.18
8/2/2014	2.8		19.02	174.67	218.01	4.33	2.21
8/3/2014	7.2		14.72	149.33	203.48	5.33	2.00
8/4/2014	2.9		16.39	158.00	209.83	4.67	2.00
8/5/2014	4.1		14.28	160.67	214.66	4.33	2.00
8/6/2014	3.5		14.14	158.00	217.91	5.33	2.45
8/7/2014	3.4		12.07	162.31	207.97	4.67	2.01
8/8/2014	4.8		13.94	194.00	222.53	6.00	2.02
8/9/2014	2.8		13.85	161.33	253.31	2.33	2.00
8/10/2014	6.8		13.07	138.67	209.39	5.67	2.00
8/11/2014	2.8		13.80	158.67	219.29	4.33	2.88
8/12/2014	2.4		14.60	176.67	235.35	5.67	2.00
8/13/2014	5.6		53.32	165.33	185.25	10.67	3.09
8/14/2014	2.4		16.04	106.00	142.77	2.67	2.42
8/15/2014	12.7		15.71	140.00	179.45	4.00	3.43
8/16/2014	2.0		14.80	172.67	245.72	5.33	2.00
8/17/2014	2.4		14.71	133.33	202.39	2.00	2.00
8/18/2014	3.7		14.83	132.67	217.12	3.33	2.00
8/19/2014	2.4		14.63	165.33	219.91	2.33	2.00
8/20/2014	2.6		14.19	165.33	217.26	2.00	2.00
8/21/2014	2.0		14.60	160.67	224.29	3.00	2.00
8/22/2014	3.8		20.09	177.33	220.64	2.33	2.00
8/23/2014	3.8		14.51	156.00	220.32	2.33	2.00

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
8/24/2014	2.4		13.55	160.00	218.69	3.33	2.00
8/25/2014	3.3		13.78	163.33	236.16	2.33	2.00
8/26/2014	2.0		14.10	192.00	240.74	2.67	2.00
8/27/2014	2.0		14.29	174.67	236.99	2.67	2.00
8/28/2014	2.4		14.49	190.67	221.62	3.00	2.00
8/29/2014	2.0		13.62	157.33	226.98	2.00	2.00
8/30/2014	2.4		14.05	193.33	212.07	6.67	2.00
8/31/2014	6.6		18.76	163.33	204.62	4.67	2.00
9/1/2014	25.9		14.31	150.67	164.30	4.33	2.00
9/2/2014	6.1		14.69	138.00	207.51	2.33	2.00
9/3/2014	3.0		13.95	202.67	239.67	3.67	2.00
9/4/2014	4.0		13.48	207.33	291.16	4.67	2.00
9/5/2014	2.8		13.89	182.00	220.95	4.67	2.00
9/6/2014	3.6		16.19	198.00	250.23	6.67	2.41
9/7/2014	20.9		16.99	153.33	192.70	6.33	2.00
9/8/2014	12.8		13.90	136.67	239.28	2.67	2.00
9/9/2014	2.4		14.42	205.33	218.66	12.00	2.00
9/10/2014	6.4		14.03	184.00	220.66	2.67	2.00
9/11/2014	10.4		14.48	206.00	229.11	5.00	2.00
9/12/2014	2.0		13.24	193.33	231.73	2.67	2.00
9/13/2014	4.0		18.30	170.00	226.11	2.33	2.13
9/14/2014	8.3		13.43	160.67	188.49	9.33	2.00
9/15/2014	21.5		13.67	137.33	200.73	3.00	2.00
9/16/2014	5.4		14.48	184.00	221.95	3.67	2.00
9/17/2014	3.5		13.56	188.00	236.05	7.67	2.00
9/18/2014	6.1		13.25	190.00	236.23	6.67	2.28
9/19/2014	21.4		12.82	179.33	240.59	2.00	2.08
9/20/2014	4.8		13.76	176.67	244.29	5.67	2.53
9/21/2014	10.4		14.23	152.00	237.16	4.33	3.01
9/22/2014	6.2		14.08	164.67	242.53	5.67	2.34
9/23/2014	6.2		14.10	143.33	205.95	6.00	2.39
9/24/2014	16.9		14.98	220.67	253.76	6.33	2.73
9/25/2014	30.0		15.50	175.33	253.73	5.33	2.65
9/26/2014	16.2		13.83	184.67	277.47	4.33	2.54
9/27/2014	14.5		12.50	161.33	256.67	4.67	2.41
9/28/2014	22.8		12.86	152.00	237.70	2.33	2.72
9/29/2014	20.1		14.76	194.67	236.64	12.33	3.16
9/30/2014	20.5		15.93	204.67	271.39	6.33	2.81
10/1/2014	12.0		25.28	221.33	240.40	18.67	5.84
10/2/2014	19.3		21.76	114.00	172.78	6.33	3.43
10/3/2014	38.7		14.66	164.00	225.65	5.00	3.13
10/4/2014	9.4		20.47	152.67	246.16	6.33	4.87
10/5/2014	4.6		14.13	137.33	222.09	4.33	2.64
10/6/2014	24.5		15.18	122.67	234.69	4.33	2.78
10/7/2014	5.4		15.34	123.33	230.53	5.67	2.52
10/8/2014	2.6		14.66	162.00	272.46	3.00	2.90
10/9/2014	2.4		13.94	177.33	285.93	5.33	3.56

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
10/10/2014	5.1		13.67	167.33	267.13	3.33	3.03
10/11/2014	15.3		19.58	182.00	292.43	6.67	3.54
10/12/2014	7.6		12.29	145.33	230.23	5.33	3.23
10/13/2014	12.3		14.05	167.33	257.40	6.67	3.10
10/14/2014	7.7		14.60	138.00	225.16	4.67	2.74
10/15/2014	6.3		14.42	153.33	228.30	6.67	2.86
10/16/2014	3.3		29.32	202.00	297.89	12.00	3.59
10/17/2014	7.4		14.05	144.00	183.33	3.00	2.62
10/18/2014	7.4		14.15	176.00	273.56	5.33	3.00
10/19/2014	5.2		13.79	168.67	274.16	9.33	4.18
10/20/2014	6.7		13.70	150.67	246.72	10.67	2.87
10/21/2014	2.0		19.09	190.67	267.81	7.67	3.88
10/22/2014	8.9		27.63	163.33	205.61	17.67	6.52
10/23/2014	12.8		36.32	134.00	149.46	16.00	6.61
10/24/2014	12.7		16.04	118.00	166.81	7.67	3.68
10/25/2014	8.2		14.10	177.33	247.86	9.00	3.18
10/26/2014	6.9		14.40	171.33	227.40	10.33	3.95
10/27/2014	3.4		13.98	153.33	240.85	16.67	3.76
10/28/2014	2.4		14.46	214.67	255.21	11.33	4.18
10/29/2014	7.5		14.15	206.67	235.80	10.00	4.91
10/30/2014	7.6		13.79	186.00	271.79	9.33	5.88
10/31/2014	6.6		13.74	174.67	280.77	14.33	6.17
11/1/2014	4.2		17.59	218.00	287.54	17.67	8.43
11/2/2014	3.6		19.29	170.67	237.56	16.00	8.17
11/3/2014	3.4		13.53	145.33	227.36	14.67	5.63
11/4/2014	9.4		14.10	212.67	270.27	15.33	6.16
11/5/2014	5.3		14.27	222.67	300.11	10.00	4.98
11/6/2014	4.3		24.52	230.67	267.79	16.67	6.05
11/7/2014	8.7		13.91	140.67	211.74	7.67	4.00
11/8/2014	3.4		13.37	188.67	308.06	15.67	3.94
11/9/2014	4.0		14.26	170.67	247.41	8.33	4.16
11/10/2014	2.0		13.81	190.00	251.99	3.33	3.10
11/11/2014	2.4		14.03	210.00	283.37	9.67	2.73
11/12/2014	2.6		14.18	204.00	296.89	9.33	3.45
11/13/2014	4.9		13.37	192.67	257.76	11.67	3.23
11/14/2014	8.9		17.95	261.33	308.00	9.33	2.52
11/15/2014	2.8		13.48	212.67	259.86	9.33	2.59
11/16/2014	7.0		14.27	92.67	190.25	8.67	3.37
11/17/2014	6.6		54.55	200.67	186.98	212.00	107.75
11/18/2014	141.1		16.04	118.00	149.95	10.67	3.65
11/19/2014	54.7		14.84	155.33	221.72	6.67	3.54
11/20/2014	130.8		15.20	156.00	252.40	5.33	3.15
11/21/2014	107.0		14.69	170.67	238.62	9.33	2.70
11/22/2014	44.0		14.94	181.33	265.80	5.33	2.81
11/23/2014	20.3		14.76	193.33	216.83	8.00	2.00
11/24/2014	7.9		39.34	157.33	176.50	11.00	2.64
11/25/2014	24.1		16.53	136.67	201.95	7.00	2.51

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data



**Bucklin Point 2014 Wastewater Treatment Plant  
TSS, BOD and Fecal Coliform Data**

Date	Fecal Coliform		Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent BOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent BOD (mg/L)
	Bacteria (MPN/100 ml)						
11/26/2014	15.8		51.01	141.33	208.91	46.67	10.07
11/27/2014	20.2		21.06	84.00	119.23	6.33	4.11
11/28/2014	14.3		17.36	118.00	217.39	7.67	3.20
11/29/2014	7.0		17.35	123.33	213.65	6.00	2.96
11/30/2014	5.4		17.65	136.67	243.79	5.33	2.25
12/1/2014	23.4		17.08	142.67	197.32	4.00	2.26
12/2/2014	17.8		17.94	184.00	218.91	6.67	2.33
12/3/2014	8.4		23.22	150.00	189.29	8.67	2.83
12/4/2014	17.5		16.89	142.00	177.27	6.67	2.08
12/5/2014	13.5		17.47	129.33	198.93	4.67	2.83
12/6/2014	4.8		36.19	145.33	212.84	24.33	9.27
12/7/2014	3.8		29.36	100.00	148.75	7.33	4.20
12/8/2014	2.8		18.35	116.00	148.30	6.33	2.54
12/9/2014	4.8		65.76	136.00	162.61	29.67	9.49
12/10/2014	2.6		33.95	120.00	111.85	30.00	12.53
12/11/2014	2.9		27.02	72.67	102.23	7.67	3.09
12/12/2014	2.8		24.79	86.67	136.99	6.33	3.02
12/13/2014	2.8		23.51	97.33	141.25	6.67	3.20
12/14/2014	2.8		22.75	90.00	145.30	4.33	2.09
12/15/2014	2.0		21.89	90.67	145.62	3.67	2.92
12/16/2014	2.4		22.69	105.33	169.70	18.33	7.13
12/17/2014	13.3		29.86	100.00	156.09	8.00	2.37
12/18/2014	2.0		21.52	91.33	139.22	7.00	2.11
12/19/2014	2.8		20.75	114.00	165.69	4.33	2.25
12/20/2014	2.8		20.64	128.00	200.90	8.67	3.14
12/21/2014	2.4		20.88	128.00	177.64	4.67	2.00
12/22/2014	2.0		20.67	142.00	180.21	11.33	3.06
12/23/2014	2.0		24.13	156.67	171.80	9.67	3.33
12/24/2014	2.6		33.66	110.67	194.83	38.33	36.81
12/25/2014	2.8		26.24	108.67	140.27	16.00	6.53
12/26/2014	2.4		20.46	95.33	170.74	6.33	2.46
12/27/2014	2.0		20.43	108.67	213.29	6.67	2.27
12/28/2014	2.0		21.02	120.67	187.64	7.00	2.63
12/29/2014	2.4		20.01	127.33	155.11	6.67	2.54
12/30/2014	2.4		19.95	149.33	164.07	16.00	2.97
12/31/2014	2.0		20.02	108.00	180.18	3.33	2.64

Table 2: Bucklin Point TSS, BOD, and Fecal Coliform Data

## Field's Point Enterococci Data 2014

all results are in MPN/100ml

Date	Day of the Week	Grab 1	Grab 2	Grab 2 Duplicate
1/3/2014	Friday	3	4	
1/6/2014	Monday	4	17	
1/8/2014	Wednesday	8	9	13
1/10/2014	Friday	4	5	
1/13/2014	Monday	6	4	
1/17/2014	Friday	3	3	
1/22/2014	Wednesday	6	15	16
1/24/2014	Friday	5	6	
1/27/2014	Monday	3	2	
1/29/2014	Wednesday	6	10	5
1/31/2014	Friday	13	5	
2/3/2014	Monday	9	7	
2/5/2014	Wednesday	3	6	5
2/7/2014	Friday	12	<1.0	
2/10/2014	Monday	2	6	
2/12/2014	Wednesday	5	3	6
2/14/2014	Friday	21	32	
2/17/2014	Monday	10	7	
2/19/2014	Wednesday	1	8	<1
2/21/2014	Friday	2	13	
2/24/2014	Monday	1	8	
2/26/2014	Wednesday	3	5	5
2/28/2014	Friday	4	3	
3/3/2014	Monday	2	<1	
3/5/2014	Wednesday	3	6	6
3/7/2014	Friday	10	1	
3/10/2014	Monday	4	3	
3/14/2014	Friday	5	4	
3/17/2014	Monday	4	3	
3/19/2014	Wednesday	9	4	3
3/21/2014	Friday	1	6	
3/24/2014	Monday	10	3	
3/26/2014	Wednesday	7	9	4
3/28/2014	Friday	6	2	
3/31/2014	Monday	1	<1	
4/2/2014	Wednesday	4	4	3
4/4/2014	Friday	10	6	
4/7/2014	Monday	5	<1	
4/9/2014	Wednesday	2	4	5
4/11/2014	Friday	2	1	
4/14/2014	Monday	<1	<1	
4/16/2014	Wednesday	3	<1	<1
4/18/2014	Friday	5	4	
4/21/2014	Monday	<1	<1	
4/23/2014	Wednesday	10	3	2
4/25/2014	Friday	3	1	

Table 3: Field's Point Enterococci Data 2014

## Field's Point Enterococci Data 2014

all results are in MPN/100ml

<b>Date</b>	<b>Day of the Week</b>	<b>Grab 1</b>	<b>Grab 2</b>	<b>Grab 2 Duplicate</b>
4/28/2014	Monday	2	21	
4/30/2014	Wednesday	2	4	2
5/2/2014	Friday	<1	<1	
5/5/2014	Monday	3	3	
5/7/2014	Wednesday	5	4	1
5/9/2014	Friday	<1	1	
5/12/2014	Monday	<1	<1	
5/14/2014	Wednesday	<1	1	<1
5/16/2014	Friday	1	1	
5/19/2014	Monday	<1	<1	
5/23/2014	Friday	2	2	
5/28/2014	Wednesday	2	2	2
5/30/2014	Friday	<1	<1	
6/2/2014	Monday	6	1	
6/6/2014	Friday	1	2	
6/9/2014	Monday	<1	<1	
6/11/2014	Wednesday	1	<1	<1
6/13/2014	Friday	5	2	
6/16/2014	Monday	<1	1	
6/20/2014	Friday	1	2	
6/23/2014	Monday	<1	<1	
6/25/2014	Wednesday	1	<1	<1
6/27/2014	Friday	<1	<1	
6/30/2014	Monday	1	<1	
7/2/2014	Wednesday	<1	1	1
7/7/2014	Monday	<1	1	
7/9/2014	Wednesday	<1	<1	1
7/11/2014	Friday	<1	<1	
7/17/2014	Thursday	1	<1	
7/18/2014	Friday	5	4	
7/23/2014	Wednesday	<1	1	<1
7/24/2014	Thursday	1	1	
7/25/2014	Friday	4	<1	
7/31/2014	Thursday	<1	<1	
8/1/2014	Friday	1	<1	
8/6/2014	Wednesday	1	<1	1
8/7/2014	Thursday	<1	<1	
8/8/2014	Friday	<1	1	
8/15/2014	Friday	1	10	
8/20/2014	Wednesday	16	17	11
8/21/2014	Thursday	2	4	
8/22/2014	Friday	<1	1	
8/28/2014	Thursday	<1	1	
8/29/2014	Friday	3	7	
9/4/2014	Thursday	2	3	
9/5/2014	Friday	11	4	

Table 3: Field's Point Enterococci Data 2014

## Field's Point Enterococci Data 2014

all results are in MPN/100ml

<b>Date</b>	<b>Day of the Week</b>	<b>Grab 1</b>	<b>Grab 2</b>	<b>Grab 2 Duplicate</b>
9/11/2014	Thursday	9	3	
9/12/2014	Friday	2	1	
9/17/2014	Wednesday	16	9	10
9/18/2014	Thursday	1	8	
9/19/2014	Friday	4	3	
9/25/2014	Thursday	3	6	
9/26/2014	Friday	<1	1	
10/1/2014	Wednesday	9	6	10
10/2/2014	Thursday	17	4	
10/3/2014	Friday	5	1	
10/9/2014	Thursday	9	1	
10/10/2014	Friday	13	4	
10/16/2014	Thursday	3	1	
10/17/2014	Friday	11	4	
10/23/2014	Thursday	10	7	
10/24/2014	Friday	10	4	
10/29/2014	Wednesday	10	<1	1
10/30/2014	Thursday	<1	<1	
10/31/2014	Friday	<1	2	
11/7/2014	Friday	3	3	
11/13/2014	Thursday	5	<1	
11/14/2014	Friday	6	1	
11/19/2014	Wednesday	8	8	9
11/21/2014	Friday	9	14	
11/26/2014	Wednesday	21	5	4
11/28/2014	Friday	8	9	
12/4/2014	Thursday	8	2	
12/5/2014	Friday	4	8	
12/10/2014	Wednesday	36	29	26
12/11/2014	Thursday	22	29	
12/12/2014	Friday	17	11	
12/18/2014	Thursday	2	10	
12/19/2014	Friday	8	6	
12/24/2014	Wednesday	2	5	4
12/26/2014	Friday	6	5	

Table 3: Field's Point Enterococci Data 2014

## Bucklin Point Enterococci Data 2014

all results are in MPN/100ml

Date	Day of the Week	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
1/3/2014	Friday	1	3	<1	3	
1/6/2014	Monday	3	6	14	152	
1/8/2014	Wednesday	<1	<1	2	2	3
1/10/2014	Friday	1	2	3	26	
1/13/2014	Monday	2	1	<1	1	
1/17/2014	Friday	1	2	1	1	
1/22/2014	Wednesday	4	4	2	3	1
1/24/2014	Friday	1	2	3	7	
1/27/2014	Monday	7	10	4	5	
1/29/2014	Wednesday	2	1	2	3	6
1/31/2014	Friday	<1	1	<1	3	
2/3/2014	Monday	2	4	7	3	
2/5/2014	Wednesday	1	3	3	2	1
2/7/2014	Friday	6	2	3	2	
2/10/2014	Monday	14	7	4	4	
2/12/2014	Wednesday	6	10	13	10	10
2/14/2014	Friday	6	12	30	17	
2/17/2014	Monday	4	5	9	9	
2/19/2014	Wednesday	5	2	<1	10	19
2/21/2014	Friday	2	4	7	1	
2/24/2014	Monday	10	4	1	10	
2/26/2014	Wednesday	3	<1	3	4	2
2/28/2014	Friday	1	2	4	1	
3/3/2014	Monday	4	1	1	2	
3/5/2014	Wednesday	5	5	4	3	2
3/7/2014	Friday	3	3	1	3	
3/10/2014	Monday	5	15	2	3	
3/14/2014	Friday	2	2	2	<1	
3/17/2014	Monday	3	2	1	3	
3/19/2014	Wednesday	2	2	3	4	2
3/21/2014	Friday	3	12	7	<1	
3/24/2014	Monday	2	2	3	5	
3/26/2014	Wednesday	1	1	6	4	5
3/28/2014	Friday	9	3	5	2	
3/31/2014	Monday	2	5	4	7	
4/2/2014	Wednesday	10	10	11	2	5
4/4/2014	Friday	5	2	6	4	
4/7/2014	Monday	1	7	3	2	
4/9/2014	Wednesday	2	<1	2	2	4
4/11/2014	Friday	1	3	2	1	
4/14/2014	Monday	1	<1	3	1	
4/16/2014	Wednesday	11	2	23	3	2
4/18/2014	Friday	8	2	10	6	
4/21/2014	Monday	4	11	3	1	
4/23/2014	Wednesday	2	<1	3	1	1
4/25/2014	Friday	4	1	3	1	

Table 4: Bucklin Point Enterococci Data 2014

## Bucklin Point Enterococci Data 2014

all results are in MPN/100ml

Date	Day of the Week	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
4/28/2014	Monday	2	1	1	1	
4/30/2014	Wednesday	1	3	<1	1	2
5/2/2014	Friday	1	<1	2	1	
5/5/2014	Monday	<1	<1	1	1	
5/7/2014	Wednesday	1	3	4	3	3
5/9/2014	Friday	1	1	1	<1	
5/12/2014	Monday	1	<1	<1	1	
5/14/2014	Wednesday	1	2	2	3	1
5/16/2014	Friday	2	4	<1	<1	
5/19/2014	Monday	1	4	3	5	
5/23/2014	Friday	2	2	3	3	
5/28/2014	Wednesday	3	1	1	2	2
5/30/2014	Friday	4	<1	1	5	
6/2/2014	Monday	5	1	2	<1	
6/6/2014	Friday	1	5	4	2	
6/9/2014	Monday	<1	3	4	6	
6/11/2014	Wednesday	6	5	4	3	2
6/13/2014	Friday	2	5	6	2	
6/16/2014	Monday	5	1	1	2	
6/20/2014	Friday	1	<1	1	<1	
6/23/2014	Monday	1	3	3	3	
6/25/2014	Wednesday	1	2	<1	<1	1
6/27/2014	Friday	1	<1	2	1	
6/30/2014	Monday	<1	1	1	<1	
7/2/2014	Wednesday	2	1	4	4	<1
7/7/2014	Monday	1	<1	2	<1	
7/9/2014	Wednesday	3	<1	5	1	6
7/11/2014	Friday	1	1	<1	3	
7/17/2014	Thursday	1	<1	<1	1	
7/18/2014	Friday	<1	2	<1	8	
7/23/2014	Wednesday	2	1	<1	2	1
7/24/2014	Thursday	<1	1	2	3	
7/25/2014	Friday	5	2	4	2	
7/31/2014	Thursday	<1	<1	3	<1	
8/1/2014	Friday	2	<1	2	3	
8/6/2014	Wednesday	1	<1	1	1	42
8/7/2014	Thursday	3	3	4	4	
8/8/2014	Friday	<1	2	1	2	
8/15/2014	Friday	<1	3	<1	3	
8/20/2014	Wednesday	1	1	3	<1	<1
8/21/2014	Thursday	2	2	1	2	
8/22/2014	Friday	1	2	4	5	
8/28/2014	Thursday	12	2	1	4	
8/29/2014	Friday	1	<1.0	<1.0	2	
9/4/2014	Thursday	2	6	6	29	
9/5/2014	Friday	<1	2	2	2	

Table 4: Bucklin Point Enterococci Data 2014

## Bucklin Point Enterococci Data 2014

all results are in MPN/100ml

Date	Day of the Week	Grab 1	Grab 2	Grab 3	Grab 4	Grab 4 Duplicate
9/11/2014	Thursday	6	4	4	2	
9/12/2014	Friday	2	1	<1	2	
9/17/2014	Wednesday	2	<1	2	3	3
9/18/2014	Thursday	2	5	1	1	
9/19/2014	Friday	2	2	1	2	
9/25/2014	Thursday	3	2	2	1	
9/26/2014	Friday	1	1	2	2	
10/1/2014	Wednesday	<1	2	2	1	1
10/2/2014	Thursday	5	8	2	7	
10/3/2014	Friday	2	<1	1	4	
10/9/2014	Thursday	1	5	4	<1	
10/10/2014	Friday	2	3	1	6	
10/16/2014	Thursday	2	2	1	2	
10/17/2014	Friday	3	2	1	<1	
10/23/2014	Thursday	39	5	3	5	
10/24/2014	Friday	2	4	1	1	
10/29/2014	Wednesday	5	1	2	9	3
10/30/2014	Thursday	4	4	1	<1.0	
10/31/2014	Friday	1	9	6	<1	
11/7/2014	Friday	1	6	6	2	
11/13/2014	Thursday	3	7	3	20	
11/14/2014	Friday	4	10	4	5	
11/19/2014	Wednesday	47	19	44	15	16
11/21/2014	Friday	32	15	15	25	
11/26/2014	Wednesday	12	7	8	11	9
11/28/2014	Friday	5	5	11	10	
12/4/2014	Thursday	31	13	12	5	
12/5/2014	Friday	26	28	10	<1	
12/10/2014	Wednesday	4	3	1	4	1
12/11/2014	Thursday	<1	1	4	2	
12/12/2014	Friday	2	4	4	1	
12/18/2014	Thursday	<1	3	1	3	
12/19/2014	Friday	2	12	4	4	
12/24/2014	Wednesday	2	<1	2	3	
12/26/2014	Friday	<1	2	2	<1	1

Table 4: Bucklin Point Enterococci Data 2014

Field's Point Influent Metals 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Cd (ppb)	Cr (ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
1/1/2014	Wednesday	33.53	<2.5	<10.00	18.89	<10.00	0.0238	<10.00	<4.0	53.25	6.08
1/7/2014	Tuesday	50.42	<2.5	<10.00	29.53	<10.00	0.0183	20.99	<4.0	62.51	9.92
1/8/2014	Wednesday	39.28	<2.5	<10.00	39.95	<10.00	0.0254	38.18	<4.0	76.92	8.45
1/14/2014	Tuesday	61.03	<2.5	<10.00	30.19	10.77	0.0299	14.61	<4.0	62.74	7.88
1/15/2014	Wednesday	65.15	<2.5	<10.00	26.19	<10.00	0.0266	16.97	<4.0	53.18	6.51
1/21/2014	Tuesday	42.47	<2.5	11.84	41.13	<10.00	0.0226	48.96	<4.0	81.46	6.88
1/22/2014	Wednesday	40.18	<2.5	<10.00	21.56	<10.00	0.0239	16.79	<4.0	72.00	6.80
1/28/2014	Tuesday	37.54	<2.5	<10.00	27.39	<10.00	0.0392	22.03	<4.0	74.07	8.69
1/29/2014	Wednesday	38.38	<2.5	<10.00	34.24	<10.00	0.0218	17.55	<4.0	76.36	5.00
2/4/2014	Tuesday	37.10									8.52
2/5/2014	Wednesday	36.66									11.50
2/6/2014	Thursday	39.02	<2.5	<10.00	41.06	<10.00	0.0332	18.29	<4.0	82.36	
2/7/2014	Friday	35.44	<2.5	<10.00	37.72	<10.00	0.0243	44.42	<4.0	133.50	
2/11/2014	Tuesday	33.04	<2.5	<10.00	47.05	<10.00	0.0201	16.02	<4.0	74.52	5.40
2/12/2014	Wednesday	36.09	<2.5	10.35	47.71	<10.00	0.0199	17.62	<4.0	77.84	6.81
2/18/2014	Tuesday	39.42	<2.5	<10.00	34.49	<10.00	0.0276	16.91	<4.0	77.07	
2/19/2014	Wednesday	54.98	<2.5	<10.00	40.45	<10.00	0.0463	11.79	<4.0	106.40	15.10
2/20/2014	Thursday	60.99									11.80
2/25/2014	Tuesday	50.08	<2.5	<10.00	32.21	<10.00	0.0224	17.67	<4.0	86.85	6.33
2/26/2014	Wednesday	46.42	<2.5	<10.00	51.01	<10.00	0.0304	19.25	<4.0	84.20	5.48
3/4/2014	Tuesday	41.56	<2.5	<10.00	36.40	<10.00	0.0239	17.12	<4.0	80.37	5.29
3/5/2014	Wednesday	40.59	<2.5	<10.00	35.30	<10.00	0.0268	16.29	<4.0	66.87	5.58
3/11/2014	Tuesday	37.48	<2.5	<10.00	53.26	<10.00	0.0339	15.94	<4.0	97.95	4.56
3/12/2014	Wednesday	51.18	<2.5	<10.00	50.25	15.87	0.0458	18.02	<4.0	119.50	8.83
3/18/2014	Tuesday	43.34	<2.5	<10.00	38.54	<10.00	0.0380	15.29	<4.0	78.26	5.94
3/19/2014	Wednesday	51.50	<2.5	<10.00	54.49	<10.00	0.0507	20.71	<4.0	92.15	7.49
3/25/2014	Tuesday	42.55	<2.5	<10.00	29.66	<10.00	0.0214	19.18	<4.0	87.38	9.71
3/26/2014	Wednesday	38.02	<2.5	<10.00	34.39	<10.00	0.0326	20.63	<4.0	93.44	6.21
4/1/2014	Tuesday	70.85	<2.5	<10.00	24.80	<10.00	0.0226	31.93	<4.0	63.67	4.99
4/2/2014	Wednesday	70.32	<2.5	<10.00	20.10	<10.00	0.0172	18.37	<4.0	60.91	4.74
4/8/2014	Tuesday	68.06	<2.5	<10.00	28.00	<10.00	0.0313	11.11	<4.0	77.18	7.92
4/9/2014	Wednesday	56.00	<2.5	<10.00	36.20	<10.00	0.0270	18.02	<4.0	67.58	6.64
4/15/2014	Tuesday	83.41	<2.5	<10.00	36.70	19.11	0.0315	<10.00	<4.0	97.24	7.72
4/16/2014	Wednesday	68.75	<2.5	<10.00	23.40	<10.00	0.0181	12.68	<4.0	61.49	6.47
4/22/2014	Tuesday	48.91	<2.5	<10.00	27.70	<10.00	0.0216	12.12	<4.0	71.46	6.87
4/23/2014	Wednesday	57.96	<2.5	<10.00	27.60	<10.00	0.0276	13.38	<4.0	84.47	6.08
4/29/2014	Tuesday	44.89	<2.5	<10.00	25.70	<10.00	0.0432	16.98	<4.0	78.99	11.40
4/30/2014	Wednesday	62.70	<2.5	<10.00	33.10	<10.00	0.0576	12.76	<4.0	101.40	13.80

Table 5: Field's Point Influent Metals and Cyanide (Cd-CN)



Field's Point Influent Metals 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Cd (ppb)	Cr (ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
5/6/2014	Tuesday	46.36	<2.5	<10.00	41.04	<10.00	0.0157	20.48	<4.0	74.73	6.29
5/7/2014	Wednesday	48.87	<2.5	<10.00	40.35	<10.00	0.0260	21.31	<4.0	85.09	7.97
5/13/2014	Tuesday	41.66	<2.5	<10.00	115.00	<10.00	0.0603	20.01	<4.0	90.59	5.09
5/14/2014	Wednesday	42.64	<2.5	<10.00	41.10	<10.00	0.0302	13.05	<4.0	74.32	5.82
5/20/2014	Tuesday	41.34	<2.5	<10.00	49.90	<10.00	0.0247	17.41	<4.0	71.60	6.04
5/21/2014	Wednesday	40.24	<2.5	<10.00	41.00	<10.00	0.0374	13.12	<4.0	76.70	5.04
5/27/2014	Tuesday	37.79	<2.5	<10.00	49.80	<10.00	0.0575	24.07	<4.0	84.80	9.03
5/28/2014	Wednesday	36.13	<2.5	<10.00	53.10	<10.00	0.0311	14.95	<4.0	84.00	8.57
6/3/2014	Tuesday	38.31	<2.5	<10.00	56.95	12.90	0.0620	13.60	<4.0	100.50	8.56
6/4/2014	Wednesday	35.50	<2.5	<10.00	55.38	12.76	0.1860	23.68	<4.0	123.90	9.44
6/10/2014	Tuesday	55.76	<2.5	<10.00	69.76	33.08	0.0383	14.49	<4.0	124.80	8.84
6/11/2014	Wednesday	39.37	<2.5	10.36	45.23	<10.00	0.0279	15.11	<4.0	93.19	8.09
6/17/2014	Tuesday	38.19	<2.5	<10.00	54.76	<10.00	0.0339	16.33	<4.0	88.16	7.34
6/18/2014	Wednesday	38.86	<2.5	13.12	48.40	<10.00	0.0419	14.70	<4.0	93.02	7.82
6/24/2014	Tuesday	34.92	<2.5	<10.00	75.16	<10.00	0.0365	17.40	<4.0	94.15	5.60
6/25/2014	Wednesday	38.71	5.32	<10.00	50.27	<10.00	0.0774	17.73	<4.0	107.00	9.07
7/1/2014	Tuesday	33.80	<2.5	13.70	38.26	<10.00	0.0589	15.50	4.82	137.50	6.16
7/2/2014	Wednesday	34.07	<2.5	<10.00	39.89	<10.00	0.0395	14.47	<4.0	111.30	8.04
7/8/2014	Tuesday	34.97	<2.5	<10.00	31.28	<10.00	0.0224	13.42	<4.0	86.80	9.52
7/9/2014	Wednesday	35.26	<2.5	10.70	32.00	<10.00	0.0318	14.30	<4.0	111.40	7.58
7/14/2014	Monday	36.28	<2.5	<10.00	47.20	10.40		18.90		122.40	
7/15/2014	Tuesday	34.80	<2.5	10.48	42.20	<10.00	0.0388	19.85	<4.0	102.30	7.87
7/16/2014	Wednesday	59.51	<2.5	<10.00	44.66	22.10	0.0479	16.87	<4.0	108.60	7.25
7/22/2014	Tuesday	33.20	<2.5	<10.00	56.13	<10.00	0.0351	24.34	<4.0	110.40	5.14
7/23/2014	Wednesday	33.43	<2.5	<10.00	43.96	<10.00	0.0566	20.09	<4.0	114.80	7.03
7/29/2014	Tuesday	33.22	<2.5	<10.00	36.93	<10.00	0.0237	18.22	<4.0	70.09	10.60
7/30/2014	Wednesday	32.42	<2.5	<10.00	41.73	<10.00	0.0381	19.53	<4.0	72.86	6.30
8/5/2014	Tuesday	32.86	2.50	11.30	77.42	<10.00	0.0582	31.85	<4.0	139.90	5.77
8/6/2014	Wednesday	31.18	<2.5	<10.00	58.52	<10.00	0.0479	26.39	<4.0	102.20	8.43
8/12/2014	Tuesday	37.74	<2.5	<10.00	55.58	<10.00	0.0476	20.42	<4.0	136.40	8.77
8/13/2014	Wednesday	89.12	<2.5	<10.00	50.76	21.98	0.0592	12.81	<4.0	113.20	5.88
8/19/2014	Tuesday	33.77	<2.5	10.26	68.76	<10.00	0.0242	30.10	<4.0	133.30	6.72
8/20/2014	Wednesday	34.64	<2.5	13.71	63.70	<10.00	0.0227	24.48	<4.0	127.70	7.68
8/26/2014	Tuesday	30.62	<2.5	<10.00	53.17	<10.00	0.0385	27.70	<4.0	136.60	15.40
8/27/2014	Wednesday	32.23	<2.5	<10.00	55.02	<10.00	0.0349	23.69	<4.0	122.40	4.53
9/2/2014	Tuesday	31.92	<2.5	<10.00	50.62	<10.00	0.0311	22.97	<4.0	115.20	8.50
9/3/2014	Wednesday	30.41	<2.5	22.64	67.53	<10.00	0.0852	41.70	<4.0	171.00	6.81
9/9/2014	Tuesday	32.30	<2.5	11.46	55.39	<10.00	0.0380	45.49	<4.0	109.50	8.63

Table 5: Field's Point Influent Metals and Cyanide (Cd-CN)

Field's Point Influent Metals 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Cd (ppb)	Cr (ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
9/10/2014	Wednesday	32.19	<2.5	<10.00	46.23	<10.00	0.0478	22.32	<4.0	107.60	7.52
9/16/2014	Tuesday	31.06	<2.5	22.65	77.48	<10.00	0.0575	33.38	<4.0	142.60	10.70
9/17/2014	Wednesday	28.95	<2.5	16.47	60.11	<10.00	0.0608	24.23	<4.0	117.10	6.33
9/23/2014	Tuesday	28.28	<2.5	<10.00	72.71	<10.00	<0.0200	28.04	<4.0	140.30	11.60
9/24/2014	Wednesday	32.93	<2.5	16.17	82.47	<10.00	0.0509	31.08	<4.0	166.20	8.13
9/30/2014	Tuesday	30.07	<2.5	11.69	77.77	12.34	0.0496	30.64	<4.0	166.80	6.26
10/1/2014	Wednesday	46.39	<2.5	<10.00	53.03	17.43	0.1000	19.90	<4.0	149.90	5.37
10/7/2014	Tuesday	30.20	<2.5	14.04	94.61	<10.00	0.1060	28.80	<4.0	169.40	6.06
10/8/2014	Wednesday	29.03	<2.5	10.72	54.22	<10.00	0.0470	25.10	<4.0	145.50	6.76
10/14/2014	Tuesday	30.85	<2.5	10.19	60.94	<10.00	0.0439	19.07	<4.0	103.90	7.14
10/15/2014	Wednesday	29.67	<2.5	<10.00	58.92	<10.00	0.0536	18.22	<4.0	115.50	<4.00
10/21/2014	Tuesday	31.97	<2.5	<10.00	83.76	11.61	0.0532	36.61	<4.0	142.60	5.70
10/22/2014	Wednesday	48.28	<2.5	<10.00	75.35	28.31	0.0773	27.13	<4.0	174.60	6.05
10/28/2014	Tuesday	32.34	<2.5	<10.00	74.96	<10.00	0.0331	43.70	<4.0	138.20	16.20
10/29/2014	Wednesday	30.26	<2.5	<10.00	65.03	<10.00	0.0255	28.52	<4.0	137.10	5.16
11/4/2014	Tuesday	30.30	<2.5	<10.00	54.64	<10.00	0.0509	31.93	<4.0	105.70	7.53
11/5/2014	Wednesday	31.10	<2.5	<10.00	58.69	<10.00	0.0404	68.45	<4.0	124.90	8.96
11/11/2014	Tuesday	29.32	<2.5	<10.00	44.91	<10.00	0.0323	40.41	<4.0	85.30	7.44
11/12/2014	Wednesday	31.78	<2.5	<10.00	48.58	<10.00	0.0338	31.93	<4.0	99.48	10.50
11/18/2014	Tuesday	57.03	<2.5	<10.00	43.68	<10.00	0.0240	18.28	<4.0	61.57	6.83
11/19/2014	Wednesday	57.60	<2.5	<10.00	32.18	<10.00	0.0370	16.41	<4.0	63.12	<4.00
11/25/2014	Tuesday	59.24	<2.5	<10.00	39.64	<10.00	0.0194	20.80	4.96	83.18	6.74
11/26/2014	Wednesday	67.12	<2.5	<10.00	28.00	11.94	0.0206	12.81	<4.0	80.12	7.79
12/2/2014	Tuesday	41.04	<2.5	<10.00	39.56	<10.00	0.0933	33.79	5.28	100.50	7.97
12/3/2014	Wednesday	44.03	<2.5	<10.00	35.61	14.49	0.0314	23.26	<4.0	114.90	7.70
12/9/2014	Tuesday	86.04	<2.5	<10.00	40.76	23.92	0.0074	16.42	<4.0	112.90	5.69
12/10/2014	Wednesday	82.47	<2.5	<10.00	31.42	<10.00	0.0229	19.41	<4.0	71.00	13.00
12/16/2014	Tuesday	48.97	<2.5	<10.00	41.83	<10.00	0.0530	18.22	<4.0	116.80	<4.00
12/17/2014	Wednesday	54.68	<2.5	<10.00	36.12	<10.00	0.0255	23.24	<4.0	93.23	4.60
12/23/2014	Tuesday	48.55	<2.5	<10.00	34.16	<10.00	0.0430	13.75	<4.0	93.60	8.38
12/24/2014	Wednesday	53.45	<2.5	<10.00	30.71	12.08	0.0347	11.46	<4.0	91.30	4.15
12/30/2014	Tuesday	41.51	<2.5	11.41	32.81	<10.00	0.0295	22.93	<4.0	80.00	6.29
12/31/2014	Wednesday	38.69	<2.5	<10.00	23.30	<10.00	0.0159	16.83	<4.0	69.04	4.55

Table 5: Field's Point Influent Metals and Cyanide (Cd-CN)

Field's Point Influent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Influent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo(ppb)</b>
1/1/2014	Wednesday	33.53	324.1	1494.0			
1/7/2014	Tuesday	50.42	382.4	1399.0	1.82	1.27	3.42
1/8/2014	Wednesday	39.28	619.9	2168.4			
1/14/2014	Tuesday	61.03	1088.0	1714.0	1.87	1.16	5.22
1/15/2014	Wednesday	65.15	438.1	1351.0			
1/21/2014	Tuesday	42.47	482.1	1640.0	3.08	1.18	6.00
1/22/2014	Wednesday	40.18	468.9	1683.0			
1/28/2014	Tuesday	37.54	698.8	1919.0	3.24	1.27	6.88
1/29/2014	Wednesday	38.38	1500.0	3035.0			
2/6/2014	Thursday	39.02	558.7	1741.0	3.18	1.48	8.07
2/7/2014	Friday	35.44	542.9	1659.0			
2/11/2014	Tuesday	33.04	320.1	1482.0	2.42	1.20	7.91
2/12/2014	Wednesday	36.09	387.3	1496.0			
2/18/2014	Tuesday	39.42	774.4	1829.0	2.78	1.43	5.84
2/19/2014	Wednesday	54.98	1321.0	2763.2			
2/25/2014	Tuesday	50.08	376.6	1641.0	2.49	1.37	8.69
2/26/2014	Wednesday	46.42	458.0	1750.0			
3/4/2014	Tuesday	41.56	853.0	2054.0	7.57	1.91	4.31
3/5/2014	Wednesday	40.59	1132.0	2473.6			
3/11/2014	Tuesday	37.48	599.5	2034.0	2.76	1.45	5.76
3/12/2014	Wednesday	51.18	1305.0	3470.0			
3/18/2014	Tuesday	43.34	299.7	1420.0	2.56	1.57	3.67
3/19/2014	Wednesday	51.50	552.6	1816.0			
3/25/2014	Tuesday	42.55	390.4	1492.0	3.15	1.59	3.72
3/26/2014	Wednesday	38.02	569.0	1794.0			
4/1/2014	Tuesday	70.85	678.3	2263.0	3.23	1.38	1.93
4/2/2014	Wednesday	70.32	1138.0	2547.0			
4/8/2014	Tuesday	68.06	490.4	1836.0	1.38	1.13	3.80
4/9/2014	Wednesday	56.00	250.9	1498.0			
4/15/2014	Tuesday	83.41	1902.0	3032.0	<1.0	1.29	2.55
4/16/2014	Wednesday	68.75	1061.0	2181.0			
4/22/2014	Tuesday	48.91	253.5	1303.0	1.77	1.06	4.25
4/23/2014	Wednesday	57.96	399.9	1511.0			
4/29/2014	Tuesday	44.89	402.9	1530.0	2.09	1.32	2.73
4/30/2014	Wednesday	62.70	426.1	1492.0			
5/6/2014	Tuesday	46.36	226.5	1411.0	1.92	0.96	6.05

Table 6: Field's Point Influent Metals (Al-Mo)

Field's Point Influent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Influent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo(ppb)</b>
5/7/2014	Wednesday	48.87	329.2	2297.0			
5/13/2014	Tuesday	41.66	300.9	1762.0	1.77	1.17	8.05
5/14/2014	Wednesday	42.64	410.8	1785.0			
5/20/2014	Tuesday	41.34	237.7	1547.0	2.64	1.46	5.33
5/21/2014	Wednesday	40.24	304.6	1681.0			
5/27/2014	Tuesday	37.79	385.9	1832.0	2.80	1.53	5.31
5/28/2014	Wednesday	36.13	446.7	1796.0			
6/3/2014	Tuesday	38.31	474.4	2092.0	3.09	1.73	6.43
6/4/2014	Wednesday	35.50	647.1	2278.0			
6/10/2014	Tuesday	55.76	1381.0	2936.0	1.81	1.66	4.43
6/11/2014	Wednesday	39.37	600.6	2240.0			
6/17/2014	Tuesday	38.19	896.2	2332.0	3.46	1.73	10.50
6/18/2014	Wednesday	38.86	972.6	2367.0			
6/24/2014	Tuesday	34.92	305.7	1861.0	3.56	1.72	7.37
6/25/2014	Wednesday	38.71	395.6	1968.0			
7/1/2014	Tuesday	33.80	504.0	1880.0	4.61	1.71	5.13
7/2/2014	Wednesday	34.07	310.0	1627.0			
7/8/2014	Tuesday	34.97	304.5	1372.0	3.03	1.59	4.15
7/9/2014	Wednesday	35.26	304.3	1695.3			
7/14/2014	Monday	36.28	357.8	1741.8	3.07	1.71	3.59
7/15/2014	Tuesday	34.80	247.8	1506.0	3.21	1.69	3.78
7/16/2014	Wednesday	59.51	619.0	1889.0			
7/22/2014	Tuesday	33.20	390.4	1747.9	3.31	1.74	4.65
7/23/2014	Wednesday	33.43	309.1	1853.0			
7/29/2014	Tuesday	33.22	188.5	1503.7	3.59	1.97	3.95
7/30/2014	Wednesday	32.42	288.1	1510.0			
8/5/2014	Tuesday	32.86	344.8	1501.2	3.58	2.02	3.55
8/6/2014	Wednesday	31.18	234.3	1618.2			
8/12/2014	Tuesday	37.74	341.3	2006.0	4.89	2.61	4.96
8/13/2014	Wednesday	89.12	529.1	1937.0			
8/19/2014	Tuesday	33.77	323.0	2253.0	3.56	2.02	5.93
8/20/2014	Wednesday	34.64	308.1	2224.0			
8/26/2014	Tuesday	30.62	358.4	1901.0	3.92	1.88	6.12
8/27/2014	Wednesday	32.23	405.1	1866.0			
9/2/2014	Tuesday	31.92	295.8	1709.0	5.14	2.03	6.12
9/3/2014	Wednesday	30.41	411.2	2113.0			
9/9/2014	Tuesday	32.30	361.7	1939.0	8.75	2.49	4.72

Table 6: Field's Point Influent Metals (Al-Mo)

Field's Point Influent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Influent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo(ppb)</b>
9/10/2014	Wednesday	32.19	424.6	1947.0			
9/16/2014	Tuesday	31.06	318.5	2022.0	6.51	2.37	5.63
9/17/2014	Wednesday	28.95	277.5	1884.0			
9/23/2014	Tuesday	28.28	399.6	2273.0	5.37	2.12	4.90
9/24/2014	Wednesday	32.93	417.2	2320.0			
9/30/2014	Tuesday	30.07	667.5	2521.0	5.43	2.26	4.58
10/1/2014	Wednesday	46.39	580.8	2270.0			
10/7/2014	Tuesday	30.20	428.8	2350.0	6.71	2.49	7.97
10/8/2014	Wednesday	29.03	427.5	1842.0			
10/14/2014	Tuesday	30.85	267.7	1417.0	5.84	2.28	6.35
10/15/2014	Wednesday	29.67	389.8	1702.0		2.00	
10/21/2014	Tuesday	31.97	683.6	2295.0	6.58	2.28	4.59
10/22/2014	Wednesday	48.28	1191.0	3037.0		2.10	
10/28/2014	Tuesday	32.34	369.9	1857.0	5.71	2.33	6.03
10/29/2014	Wednesday	30.26	238.2	1560.0		2.03	
11/4/2014	Tuesday	30.30	268.4	1480.0	4.74	1.96	3.82
11/5/2014	Wednesday	31.10	450.1	1628.0		2.23	
11/11/2014	Tuesday	29.32	311.2	1442.0	5.42	1.80	4.56
11/12/2014	Wednesday	31.78	251.9	1479.0		2.20	
11/18/2014	Tuesday	57.03	333.4	1357.0	3.99	1.59	4.65
11/19/2014	Wednesday	57.60	289.4	1190.0		1.92	
11/25/2014	Tuesday	59.24	214.9	1243.0	4.43	2.99	3.79
11/26/2014	Wednesday	67.12	411.1	1525.0		2.00	
12/2/2014	Tuesday	41.04	271.0	1529.0	5.07	3.66	3.87
12/3/2014	Wednesday	44.03	351.4	1593.0		2.87	
12/9/2014	Tuesday	86.04	729.6	2032.0	1.65	1.72	2.28
12/10/2014	Wednesday	82.47	272.1	1223.3		2.04	
12/16/2014	Tuesday	48.97	335.3	1751.0	3.77	2.52	2.31
12/17/2014	Wednesday	54.68	220.8	1353.0		2.19	
12/23/2014	Tuesday	48.55	316.3	1275.0	3.56	2.99	3.60
12/24/2014	Wednesday	53.45	393.3	1493.0		2.70	
12/30/2014	Tuesday	41.51	221.0	1337.0	4.46	2.80	4.42
12/31/2014	Wednesday	38.69	181.3	1337.0		2.59	

Table 6: Field's Point Influent Metals (Al-Mo)

Field's Point Effluent Metals 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	TTL Cr								
			Cd (ppb)	(ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
1/1/2014	Wednesday	33.53	<0.04	0.48	2.22	0.48	0.00261	11.38	<0.02	27.08	7.84
1/7/2014	Tuesday	50.42	<0.04	1.17	2.31	0.77	0.00309	19.51	0.04	26.81	6.95
1/8/2014	Wednesday	39.28	<0.04	1.73	18.79	0.55	0.00388	23.12	0.05	27.83	6.94
1/14/2014	Tuesday	61.03	<0.04	0.81	2.41	0.75	0.00262	13.90	0.03	23.95	9.03
1/15/2014	Wednesday	65.15	<0.04	1.00	2.29	0.79	0.00240	16.36	0.03	27.61	7.19
1/21/2014	Tuesday	42.47	<0.04	0.76	2.87	0.58	0.00438	23.44	0.04	20.06	5.11
1/22/2014	Wednesday	40.18	<0.04	0.75	3.26	0.53	0.00221	18.69	0.04	20.70	5.42
1/28/2014	Tuesday	37.54	<0.04	1.84	5.32	0.58	0.00205	15.89	0.05	20.88	6.66
1/29/2014	Wednesday	38.38	<0.04	1.59	2.09	0.45	<0.002	15.32	0.04	20.74	6.91
2/4/2014	Tuesday	37.10									6.83
2/5/2014	Wednesday	36.66									7.88
2/6/2014	Thursday	39.02	0.037	1.09	2.37	0.42	0.00282	14.21	0.04	25.18	
2/7/2014	Friday	35.44	0.044	1.29	2.49	0.49	0.00265	19.84	0.06	27.15	
2/11/2014	Tuesday	33.04	<0.04	0.92	4.03	0.53	0.00230	15.07	0.05	27.91	6.18
2/12/2014	Wednesday	36.09	<0.04	1.65	3.29	0.43	<0.002	14.30	0.05	27.06	7.04
2/18/2014	Tuesday	39.42	<0.04	1.10	2.48	0.50	0.00223	12.00	0.05	26.83	
2/19/2014	Wednesday	54.98	<0.04	1.12	2.98	0.59	0.00249	10.70	0.04	28.43	5.74
2/20/2014	Thursday	60.99									8.48
2/25/2014	Tuesday	50.08	<0.040	1.42	2.86	0.50	0.00242	11.26	0.05	25.20	<4.00
2/26/2014	Wednesday	46.42	0.042	1.25	2.61	0.57	0.00279	12.01	0.05	23.87	7.79
3/4/2014	Tuesday	41.56	0.037	1.15	2.36	0.40	0.00222	14.28	0.04	29.92	7.45
3/5/2014	Wednesday	40.59	<0.040	1.05	2.11	0.40	0.00232	13.63	0.04	24.75	6.32
3/11/2014	Tuesday	37.48	<0.040	1.32	2.42	0.41	0.00218	11.20	0.05	24.56	6.71
3/12/2014	Wednesday	51.18	<0.040	1.05	2.03	0.50	<0.002	9.95	0.04	24.45	10.10
3/18/2014	Tuesday	43.34	<0.040	0.91	2.46	0.39	0.00287	10.52	0.06	23.24	16.60
3/19/2014	Wednesday	48.32	<0.040	0.85	2.80	0.45	0.00473	12.02	0.05	23.55	10.00
3/25/2014	Tuesday	42.55	<0.040	0.93	2.70	0.53	0.00371	14.10	0.05	23.65	6.89
3/26/2014	Wednesday	38.02	0.041	1.11	2.24	0.36	0.00270	14.51	0.04	24.29	6.22
4/1/2014	Tuesday	70.85	0.056	0.61	3.44	0.52	0.00369	15.80	0.04	25.71	7.05
4/2/2014	Wednesday	70.32	0.045	0.56	1.82	0.43	0.00268	13.65	0.03	25.31	7.18
4/8/2014	Tuesday	61.09	0.059	0.68	2.51	0.38	0.00377	8.39	0.02	25.53	6.69
4/9/2014	Wednesday	56.00	0.06	0.50	2.82	0.37	0.00354	9.90	0.02	25.87	7.60
4/15/2014	Tuesday	70.98	<0.040	0.63	2.12	0.47	0.00287	6.79	0.02	22.51	7.37
4/16/2014	Wednesday	68.75	0.047	0.82	2.08	0.42	0.00357	8.56	0.03	25.36	5.25
4/22/2014	Tuesday	48.91	<0.040	0.85	1.57	0.34	<0.002	8.06	0.03	18.61	6.66
4/23/2014	Wednesday	57.96	<0.040	0.93	1.55	0.37	0.00287	8.20	0.03	20.50	7.30
4/29/2014	Tuesday	44.89	0.057	0.93	1.66	0.36	<0.002	13.46	0.03	21.25	6.25

Table 7: Field's Point Effluent Metals and Cyanide (Cd-CN)

Field's Point Effluent Metals 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	TTL Cr								
			Cd (ppb)	(ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
4/30/2014	Wednesday	62.70	0.044	1.19	2.01	0.42	0.00305	9.06	0.04	20.94	6.51
5/6/2014	Tuesday	46.36	0.304	0.66	2.07	0.34	0.00617	10.53	0.04	21.81	6.83
5/7/2014	Wednesday	48.87	0.042	0.98	1.68	0.32	0.00271	9.71	0.03	18.25	6.59
5/13/2014	Tuesday	41.66	<0.040	0.85	1.92	0.40	0.00239	11.56	0.04	17.17	6.72
5/14/2014	Wednesday	42.64	<0.040	0.80	1.70	0.40	0.00230	10.74	0.03	16.51	7.31
5/20/2014	Tuesday	41.34	<0.040	0.92	1.48	0.34	<0.002	8.40	0.03	13.99	9.10
5/21/2014	Wednesday	40.24	<0.040	0.89	1.58	0.39	0.00368	8.49	0.04	15.17	8.94
5/27/2014	Tuesday	37.79	<0.040	0.51	1.90	0.37	0.00293	9.61	0.05	14.85	8.63
5/28/2014	Wednesday	36.13	<0.040	0.55	1.91	0.36	<0.002	9.21	0.03	14.34	11.10
6/3/2014	Tuesday	38.31	<0.04	0.55	1.73	0.38	0.00253	9.58	0.04	14.70	10.20
6/4/2014	Wednesday	35.50	<0.040	0.61	1.63	0.39	0.00243	10.51	0.03	14.29	8.64
6/10/2014	Tuesday	55.76	<0.040	0.48	1.23	0.36	0.00487	9.03	0.03	13.42	11.00
6/11/2014	Wednesday	39.37	<0.040	0.73	1.26	<0.30	0.00436	8.89	0.02	13.58	11.00
6/17/2014	Tuesday	38.19	<0.040	0.67	1.34	0.34	0.00327	9.74	<0.020	18.41	10.90
6/18/2014	Wednesday	38.86	<0.040	0.76	1.13	0.35	0.00425	8.82	<0.020	14.62	14.70
6/24/2014	Tuesday	34.92	0.132	0.75	1.69	<0.30	0.00397	9.03	<0.020	14.80	11.00
6/25/2014	Wednesday	38.71	<0.040	0.62	1.83	0.31	0.00443	9.06	<0.020	13.92	20.00
7/1/2014	Tuesday	33.80	<0.04	2.26	1.62	0.33	0.00260	10.58	0.03	15.06	13.50
7/2/2014	Wednesday	34.07	0.062	1.21	2.04	0.37	0.00454	11.01	0.03	28.01	10.70
7/8/2014	Tuesday	34.97	0.066	0.83	1.70	0.33	0.00240	10.21	0.03	15.29	12.80
7/9/2014	Wednesday	35.26	<0.04	0.70	1.80	0.30	<0.002	10.10	0.03	16.00	12.00
7/14/2014	Monday	36.28	<0.04	0.68	3.31	0.62		10.79	0.02	15.99	
7/15/2014	Tuesday	34.80	<0.04	0.78	1.88	0.43	0.00216	10.47	0.04	14.60	10.80
7/16/2014	Wednesday	59.51	0.066	0.60	1.59	0.40	<0.002	9.14	0.03	16.63	9.54
7/22/2014	Tuesday	33.20	<0.04	0.50	1.90	0.40	0.00212	13.60	0.03	16.00	16.60
7/23/2014	Wednesday	33.43	<0.04	0.42	1.43	0.37	0.00268	12.40	0.03	13.89	12.10
7/29/2014	Tuesday	33.22	<0.04	0.88	1.30	<0.3	<0.002	10.34	0.02	13.92	11.60
7/30/2014	Wednesday	32.42	0.08	0.77	1.55	0.37	0.00278	12.04	<0.02	17.86	11.60
8/5/2014	Tuesday	32.86	0.029	0.77	1.80	0.32	0.00226	13.50	0.02	18.96	11.40
8/6/2014	Wednesday	31.18	0.068	0.88	1.73	0.58	0.00646	12.02	0.02	16.36	11.80
8/12/2014	Tuesday	37.74	<0.040	0.65	2.37	0.69	0.00629	9.76	0.05	14.16	10.10
8/13/2014	Wednesday	71.40	<0.040	0.44	1.49	0.40	0.00391	7.16	0.02	13.15	9.11
8/19/2014	Tuesday	33.77	<0.040	0.51	1.72	0.37	0.00339	12.50	0.03	17.76	16.20
8/20/2014	Wednesday	34.64	<0.040	0.61	1.45	0.33	0.00215	11.45	0.02	15.33	14.40
8/26/2014	Tuesday	30.62	<0.040	0.58	1.40	0.34	<0.002	16.45	0.02	14.73	16.00
8/27/2014	Wednesday	32.23	<0.040	0.70	1.43	0.33	0.00256	14.58	0.02	17.23	15.20
9/2/2014	Tuesday	31.92	<0.040	0.49	1.60	0.35	0.00204	11.51	0.02	14.03	8.19

Table 7: Field's Point Effluent Metals and Cyanide (Cd-CN)

Field's Point Effluent Metals 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Cd (ppb)	TTL Cr (ppb)	Cu (ppb)	Pb (ppb)	Hg (ppb)	Ni (ppb)	Ag (ppb)	Zn (ppb)	CN (ppb)
9/3/2014	Wednesday	30.41	<0.040	0.51	1.58	0.33	0.00208	15.17	0.02	16.30	11.90
9/9/2014	Tuesday	32.30	<0.040	0.95	1.71	0.33	0.00304	16.67	0.03	15.21	9.86
9/10/2014	Wednesday	32.19	<0.040	1.06	1.67	0.40	0.00354	17.67	0.04	16.23	13.80
9/16/2014	Tuesday	31.06	<0.040	1.03	1.61	<0.300	0.00360	14.04	0.03	16.00	8.00
9/17/2014	Wednesday	28.95	<0.040	0.84	1.65	0.45	0.00316	14.39	0.04	17.08	11.90
9/23/2014	Tuesday	28.28	<0.040	0.96	1.87	0.34	0.00355	14.27	0.04	18.77	13.20
9/24/2014	Wednesday	32.93	<0.040	0.73	1.75	<0.300	0.00406	14.64	0.04	17.91	7.93
9/30/2014	Tuesday	30.07	0.041	1.19	2.01	0.39	0.00284	13.15	0.05	16.61	8.63
10/1/2014	Wednesday	46.39	<0.040	0.69	2.75	0.36	0.00322	10.72	0.04	18.82	9.40
10/7/2014	Tuesday	30.20	<0.040	0.93	2.15	0.40	0.00515	15.08	0.04	19.58	12.30
10/8/2014	Wednesday	29.03	<0.040	1.22	1.86	0.35	0.00368	14.83	0.03	20.90	10.30
10/14/2014	Tuesday	30.85	<0.040	0.88	1.81	0.81	0.00241	11.20	0.03	16.90	45.50
10/15/2014	Wednesday	29.67	<0.040	0.82	2.41	0.40	0.00276	11.62	0.04	16.90	9.63
10/21/2014	Tuesday	31.97	<0.040	0.89	1.95	0.39	0.00282	16.94	0.04	16.43	13.00
10/22/2014	Wednesday	48.28	<0.040	0.83	2.41	0.52	0.00346	12.46	0.06	17.38	9.19
10/28/2014	Tuesday	32.34	<0.040	0.76	2.16	0.36	0.00254	22.47	0.05	17.49	5.28
10/29/2014	Wednesday	30.26	<0.040	0.68	2.15	0.47	0.00420	20.26	0.05	17.11	11.70
11/4/2014	Tuesday	30.30	<0.040	0.62	2.21	0.42	0.00259	17.69	0.05	18.76	9.07
11/5/2014	Wednesday	31.10	0.055	0.82	2.20	0.42	0.00293	25.25	0.06	20.29	7.70
11/11/2014	Tuesday	29.32	<0.040	0.41	2.14	0.35	0.00363	25.04	0.06	20.11	5.94
11/12/2014	Wednesday	31.78	<0.040	0.51	1.94	0.32	0.00273	22.43	0.06	18.39	5.98
11/18/2014	Tuesday	57.03	<0.040	0.60	2.94	0.65	0.00301	13.05	0.08	26.34	4.75
11/19/2014	Wednesday	57.60	<0.040	0.98	2.49	0.61	0.00418	13.12	0.07	23.55	4.04
11/25/2014	Tuesday	59.24	<0.040	1.77	3.53	0.62	0.00298	14.77	0.13	23.83	6.36
11/26/2014	Wednesday	67.12	0.05	1.33	3.79	0.91	0.00418	10.72	0.13	27.77	<4.00
12/2/2014	Tuesday	41.04	<0.040	1.60	3.09	0.63	0.00367	16.61	0.12	18.83	7.39
12/3/2014	Wednesday	44.03	<0.040	1.57	2.63	0.57	0.00373	16.88	0.09	21.05	6.77
12/9/2014	Tuesday	73.43	0.044	1.11	4.63	1.22	<0.002	10.54	0.19	24.87	8.04
12/10/2014	Wednesday	73.52	0.076	1.04	3.34	0.76	0.00366	12.96	0.17	24.89	7.38
12/16/2014	Tuesday	48.97	<0.040	1.31	2.92	0.49	0.00319	11.53	0.10	22.03	14.00
12/17/2014	Wednesday	54.68	<0.040	1.40	2.75	0.52	0.00210	13.31	0.11	21.94	5.49
12/23/2014	Tuesday	48.55	<0.040	1.50	3.04	0.54	<0.002	11.79	0.10	21.22	6.85
12/24/2014	Wednesday	53.45	<0.040	1.24	2.91	0.59	0.00309	9.78	0.09	20.93	7.82
12/30/2014	Tuesday	41.51	0.05	2.18	3.11	0.47	0.00238	18.46	0.12	22.86	7.33
12/31/2014	Wednesday	38.69	<0.040	2.60	2.69	0.52	0.00469	15.56	0.12	21.64	5.45

Table 7: Field's Point Effluent Metals and Cyanide (Cd-CN)



Field's Point Effluent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Effluent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo (ppb)</b>
1/1/2014	Wednesday	33.53	17.49	152.8			
1/7/2014	Tuesday	50.42	27.37	224.2	2.56	1.38	5.24
1/8/2014	Wednesday	39.28	16.69	175.7			
1/14/2014	Tuesday	61.03	21.13	130.4			
1/15/2014	Wednesday	65.15	19.11	140.6			
1/21/2014	Tuesday	42.47	19.73	150.9			
1/22/2014	Wednesday	40.18	17.40	139.4			
1/28/2014	Tuesday	37.54	20.12	164.6			
1/29/2014	Wednesday	38.38	14.90	129.8			
2/6/2014	Thursday	39.02	11.74	137.0	2.69	1.10	7.49
2/7/2014	Friday	35.44	16.95	154.4			
2/11/2014	Tuesday	33.04	14.41	126.5			
2/12/2014	Wednesday	36.09	13.65	138.1			
2/18/2014	Tuesday	39.42	15.65	142.5			
2/19/2014	Wednesday	54.98	21.11	157.5			
2/25/2014	Tuesday	50.08	16.47	149.3			
2/26/2014	Wednesday	46.42	18.75	160.6			
3/4/2014	Tuesday	41.56	11.25	132.2	5.05	1.53	5.89
3/5/2014	Wednesday	40.59	13.18	114.6			
3/11/2014	Tuesday	37.48	14.25	146.7			
3/12/2014	Wednesday	51.18	15.14	127.5			
3/18/2014	Tuesday	43.34	10.78	138.9			
3/19/2014	Wednesday	48.32	14.15	150.3			
3/25/2014	Tuesday	42.55	12.67	146.5			
3/26/2014	Wednesday	38.02	11.68	139.2			
4/1/2014	Tuesday	70.85	27.58	170.1			
4/2/2014	Wednesday	70.32	23.91	161.1			
4/8/2014	Tuesday	61.09	15.11	113.0	1.52	0.88	3.65
4/9/2014	Wednesday	56.00	15.24	136.6			
4/15/2014	Tuesday	70.98	27.04	126.8			
4/16/2014	Wednesday	68.75	22.87	130.0			
4/22/2014	Tuesday	48.91	13.00	123.3			

Table 8: Field's Point Effluent Metals (Al-Mo)

Field's Point Effluent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Effluent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo (ppb)</b>
4/23/2014	Wednesday	57.96	18.55	109.2			
4/29/2014	Tuesday	44.89	11.51	111.9			
4/30/2014	Wednesday	62.70	14.83	121.2			
5/6/2014	Tuesday	46.36	9.84	108.6	2.04	0.95	5.92
5/7/2014	Wednesday	48.87	7.53	115.2			
5/13/2014	Tuesday	41.66	10.00	132.6			
5/14/2014	Wednesday	42.64	9.37	128.2			
5/20/2014	Tuesday	41.34	6.37	113.8			
5/21/2014	Wednesday	40.24	7.20	126.5			
5/27/2014	Tuesday	37.79	6.73	128.9			
5/28/2014	Wednesday	36.13	6.06	126.3			
6/3/2014	Tuesday	38.31	7.72	130.3	2.07	1.24	6.17
6/4/2014	Wednesday	35.50	8.36	136.7			
6/10/2014	Tuesday	55.76	6.82	117.4			
6/11/2014	Wednesday	39.37	6.05	115.1			
6/17/2014	Tuesday	38.19	7.52	134.1			
6/18/2014	Wednesday	38.86	6.93	131.6			
6/24/2014	Tuesday	34.92	14.41	136.8			
6/25/2014	Wednesday	38.71	6.06	137.9			
7/1/2014	Tuesday	33.80	6.38	127.5			
7/2/2014	Wednesday	34.07	8.68	126.2			
7/8/2014	Tuesday	34.97	6.28	107.7	1.96	1.18	3.84
7/9/2014	Wednesday	35.26	6.00	107.8			
7/14/2014	Monday	36.28	13.10	236.6	3.34	1.77	3.06
7/15/2014	Tuesday	34.80	14.10	157.6			
7/16/2014	Wednesday	59.51	8.84	150.7			
7/22/2014	Tuesday	33.20	8.00	153.6			
7/23/2014	Wednesday	33.43	6.15	112.6			
7/29/2014	Tuesday	33.22	5.59	108.2			
7/30/2014	Wednesday	32.42	7.23	136.1			
8/5/2014	Tuesday	32.86	10.80	141.5	2.87	1.60	3.62
8/6/2014	Wednesday	31.18	7.59	147.7			

Table 8: Field's Point Effluent Metals (Al-Mo)

Field's Point Effluent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Effluent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo (ppb)</b>
8/12/2014	Tuesday	37.74	19.11	306.8			
8/13/2014	Wednesday	71.40	8.72	115.9			
8/19/2014	Tuesday	33.77	7.50	134.4			
8/20/2014	Wednesday	34.64	6.80	135.4			
8/26/2014	Tuesday	30.62	6.24	114.8			
8/27/2014	Wednesday	32.23	8.81	113.0			
9/2/2014	Tuesday	31.92	5.44	141.1			
9/3/2014	Wednesday	30.41	5.68	134.2			
9/9/2014	Tuesday	32.30	6.09	157.2	4.84	1.94	4.89
9/10/2014	Wednesday	32.19	7.64	185.5			
9/16/2014	Tuesday	31.06	5.42	128.8			
9/17/2014	Wednesday	28.95	7.55	160.1			
9/23/2014	Tuesday	28.28	8.97	142.6			
9/24/2014	Wednesday	32.93	6.63	157.0			
9/30/2014	Tuesday	30.07	9.07	185.9			
10/1/2014	Wednesday	46.39	7.84	131.1			
10/7/2014	Tuesday	30.20	8.50	152.3	5.73	2.05	6.38
10/8/2014	Wednesday	29.03	6.26	131.7			
10/14/2014	Tuesday	30.85	5.30	143.7		1.71	
10/15/2014	Wednesday	29.67	8.94	185.5		1.78	
10/21/2014	Tuesday	31.97	7.95	159.7		1.72	
10/22/2014	Wednesday	48.28	13.29	193.5		1.33	
10/28/2014	Tuesday	32.34	6.59	164.1		1.73	
10/29/2014	Wednesday	30.26	9.54	178.3		1.90	
11/4/2014	Tuesday	30.30	8.65	154.8		1.70	
11/5/2014	Wednesday	31.10	8.42	159.7		1.89	
11/11/2014	Tuesday	29.32	7.50	131.2		1.65	
11/12/2014	Wednesday	31.78	7.90	126.1		1.57	
11/18/2014	Tuesday	57.03	19.78	173.8	2.96	1.21	4.93
11/19/2014	Wednesday	57.60	13.99	155.7		1.46	
11/25/2014	Tuesday	59.24	15.35	168.8		2.12	
11/26/2014	Wednesday	67.12	24.10	208.3		1.45	

Table 8: Field's Point Effluent Metals (Al-Mo)

Field's Point Effluent Metals 2014  
all analyses in ppb

<b>Date</b>	<b>Day of the Week</b>	<b>Effluent Flow</b>	<b>Al (ppb)</b>	<b>Fe (ppb)</b>	<b>Se (ppb)</b>	<b>As (ppb)</b>	<b>Mo (ppb)</b>
12/2/2014	Tuesday	41.04	13.88	190.5	4.17	2.75	4.33
12/3/2014	Wednesday	44.03	13.03	165.2		2.50	
12/9/2014	Tuesday	73.43	39.12	293.7		1.19	
12/10/2014	Wednesday	73.52	22.49	188.2		1.42	
12/16/2014	Tuesday	48.97	12.56	149.5		2.12	
12/17/2014	Wednesday	54.68	12.14	150.0		2.07	
12/23/2014	Tuesday	48.55	17.20	166.5		2.70	
12/24/2014	Wednesday	53.45	16.34	155.3		2.00	
12/30/2014	Tuesday	41.51	13.06	154.1		2.72	
12/31/2014	Wednesday	38.69	12.57	160.9		2.38	

Table 8: Field's Point Effluent Metals (Al-Mo)

Bucklin Point Influent Metals Cd - CN 2014  
all results in ppb

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
1/1/2014	Wednesday	18.42	<2.5	<10.000	34	41.51	<10.000	0.0252	<10.000	<4.0	80.9	<4.00
1/7/2014	Tuesday	20.09	<2.5	<10.000	20	40.09	<10.000	0.0363	<10.000	<4.0	82.17	9.36
1/8/2014	Wednesday	20.15	<2.5	13.74	24	53.82	<10.000	0.0855	14.59	<4.0	95.96	11.3
1/14/2014	Tuesday	41.57	<2.5	<10.000	35	49.17	<10.000	0.0599	<10.000	<4.0	87.79	5.52
1/15/2014	Wednesday	24.00	<2.5	<10.000	34	40.29	<10.000	0.0417	27.97	<4.0	74.5	6.54
1/21/2014	Tuesday	21.87	<2.5	<10.000	28	39.43	<10.000	0.0306	<10.000	<4.0	89.71	<4.00
1/22/2014	Wednesday	21.30	<2.5	<10.000	19	54.66	<10.000	0.0268	27.73	<4.0	89.65	4.16
1/28/2014	Tuesday	20.05	<2.5	<10.000	25	71.47	<10.000	0.0352	47.57	<4.0	87.42	6.21
1/29/2014	Wednesday	19.84	<2.5	<10.000	47	44.8	<10.000	0.0327	11.98	<4.0	79.82	4.81
2/4/2014	Tuesday	19.95	<2.5	<10.000	37	60.68	<10.000	0.0318	25.27	<4.0	96.39	10.7
2/5/2014	Wednesday	20.05	<2.5	<10.000	26	37.44	<10.000	0.0299	<10.000	<4.0	129.3	5.89
2/11/2014	Tuesday	17.81	<2.5	<10.000	24	56.51	<10.000	0.0389	<10.000	<4.0	101	<4.00
2/12/2014	Wednesday	17.98	<2.5	<10.000	34	63.67	<10.000	0.0345	74.87	<4.0	93.18	4.09
2/18/2014	Tuesday	20.48	<2.5	<10.000	29	76.58	<10.000	0.0294	32.92	<4.0	106.4	5.43
2/19/2014	Wednesday	28.53	<2.5	<10.000	28	48.36	<10.000	0.0610	13.79	<4.0	108.3	<4.00
2/25/2014	Tuesday	25.02	<2.5	<10.000	24	63.38	<10.000	0.0309	52.94	<4.0	84.38	6.28
2/26/2014	Wednesday	24.89	<2.5	<10.000	21	51.71	<10.000	0.0335	22.26	<4.0	94.93	4.42
3/4/2014	Tuesday	21.70	<2.5	<10.000	20	62.8	<10.000	0.0215	15.07	<4.0	81.79	4.53
3/5/2014	Wednesday	21.73	<2.5	<10.000	25	52.7	<10.000	0.0497	14.55	<4.0	75	<4.00
3/11/2014	Tuesday	21.99	<2.5	<10.000	23	58.21	<10.000	0.0286	<10.000	<4.0	99.98	4.08
3/12/2014	Wednesday	31.05	<2.5	<10.000	29	73.41	<10.000	0.0441	10.21	<4.0	106.7	4.35
3/18/2014	Tuesday	20.50	<2.5	<10.000	33	32.2	<10.000	0.0421	17.41	<4.0	81.51	6.45
3/19/2014	Wednesday	21.42	<2.5	<10.000	31	51.33	<10.000	0.0722	<10.000	<4.0	93.45	4.53
3/25/2014	Tuesday	20.57	<2.5	<10.000	40	52.59	<10.000	0.0760	<10.000	<4.0	103.1	4.02
3/26/2014	Wednesday	21.29	<2.5	<10.000	34	49.1	<10.000	0.0308	12.24	<4.0	104	<4.00
4/1/2014	Tuesday	40.39	<2.5	<10.000	16	27.3	<10.000	0.0225	<10.000	<4.0	66.36	6.02
4/2/2014	Wednesday	34.39	<2.5	<10.000	20	34	<10.000	0.0224	19.51	<4.0	73.83	4.87
4/8/2014	Tuesday	48.36	<2.5	<10.000	19	49.6	<10.000	0.0420	<10.000	<4.0	108.3	4.28
4/9/2014	Wednesday	27.86	<2.5	<10.000	20	44.4	<10.000	0.0673	<10.000	<4.0	80.23	4.99
4/15/2014	Tuesday	52.42	<2.5	<10.000	<10.000	62.4	<10.000	0.0341	<10.000	<4.0	104.9	4.63
4/16/2014	Wednesday	46.10	<2.5	<10.000	10	39.8	<10.000	0.0290	<10.000	<4.0	80.68	4.85
4/22/2014	Tuesday	26.54	<2.5	<10.000	27	55.9	<10.000	0.0382	<10.000	<4.0	104.4	4.07
4/23/2014	Wednesday	31.11	<2.5	14.48	29	86.2	<10.000	0.0596	12.46	<4.0	146.6	5.43
4/29/2014	Tuesday	23.85	<2.5	<10.000	24	62.4	<10.000	0.026	13.01	<4.0	91.07	4.91
4/30/2014	Wednesday	35.69	<2.5	<10.000	31	61.8	<10.000	0.0304	14.16	<4.0	98.72	4.87
5/6/2014	Tuesday	23.69	<2.5	<10.000	24	74.69	<10.000	0.0316	<10.000	<4.0	92.21	4.62
5/7/2014	Wednesday	23.35	<2.5	<10.000	19	74.89	<10.000	0.0558	<10.000	<4.0	126.3	
5/9/2014	Friday	23.15										4.37
5/13/2014	Tuesday	21.18	<2.5	<10.000	28	72.1	<10.000	0.0559	<10.000	<4.0	102.2	5.39
5/14/2014	Wednesday	21.23	<2.5	<10.000	35	84.2	<10.000	0.0355	<10.000	<4.0	105.9	4.73
5/20/2014	Tuesday	20.51	<2.5	<10.000	<10.000	84.1	<10.000	0.0428	<10.000	<4.0	107.4	<4.00
5/21/2014	Wednesday	20.46	<2.5	<10.000	34	85.8	<10.000	0.0678	<10.000	<4.0	108.2	4.4
5/27/2014	Tuesday	19.21	<2.5	<10.000	30	78.7	<10.000	0.0504	<10.000	<4.0	97.6	<4.00
5/28/2014	Wednesday	20.20	<2.5	<10.000	295	98	<10.000	0.0936	12.24	<4.0	127.7	4.26
6/3/2014	Tuesday	19.63	<2.5	<10.000	38	133.01	<10.000	0.0656	10.69	<4.0	159.8	5.93
6/4/2014	Wednesday	20.68	<2.5	<10.000	21	102.65	10.67	0.0572	<10.000	<4.0	172.3	5.4
6/10/2014	Tuesday	29.69	<2.5	<10.000	19	105.46	12.72	0.0589	<10.000	<4.0	161.8	4.3
6/11/2014	Wednesday	19.20	<2.5	<10.000	26	88.484	12.38	0.0576	<10.000	<4.0	113.1	4.63
6/17/2014	Tuesday	17.82	<2.5	<10.000	46	79.43	<10.000	0.0416	<10.000	<4.0	109.1	5.88
6/18/2014	Wednesday	17.43	<2.5	<10.000	36	85.62	<10.000	0.0561	<10.000	<4.0	115.1	4.51
6/24/2014	Tuesday	16.47	<2.5	<10.000	32	92.06	<10.000	0.0501	<10.000	<4.0	121.9	6.33
6/25/2014	Wednesday	16.90	<2.5	<10.000	36	102.9	<10.000	0.038	16.73	<4.0	125.7	4.51
7/1/2014	Tuesday	15.87	<2.5	<10.000	30	111.6	<10.000	0.0734	<10.000	<4.0	153.5	4.49
7/2/2014	Wednesday	15.91	<2.5	<10.000	38	99.58	<10.000	0.0447	<10.000	<4.0	139.5	<4.00
7/8/2014	Tuesday	16.14	<2.5	<10.000	32	96.78	<10.000	0.0679	12.44	<4.0	123.7	4.61
7/9/2014	Wednesday	15.92	<2.5	<10.000	27	103.3	<10.000	0.0666	<10.000	<4.0	117.4	<4.00

Table 9: Bucklin Point Influent Metals and Cyanide (Cd-CN)

Bucklin Point Influent Metals Cd - CN 2014  
all results in ppb

Date	Day of the Week	Influent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
7/15/2014	Tuesday	18.15	<2.5	<10.000	52	111.6	<10.000	0.139	<10.000	<4.0	181.1	<4.00
7/16/2014	Wednesday	36.30	<2.5	<10.000	32	93.49	11.4	0.113	13.15	<4.0	146.5	<4.00
7/22/2014	Tuesday	15.00	<2.5	<10.000	41	95.95	<10.000	0.0439	13.12	<4.0	137.6	5.49
7/23/2014	Wednesday	15.47	<2.5	<10.000	49	96.88	<10.000	0.0364	<10.000	<4.0	131	7.02
7/29/2014	Tuesday	14.62	<2.5	<10.000	51	92.68	<10.000	0.0681	12.21	<4.0	101.5	4.59
7/30/2014	Wednesday	14.39	<2.5	<10.000	53	88.34	<10.000	0.0603	<10.000	<4.0	101.6	<4.00
8/5/2014	Tuesday	14.28	<2.5	<10.000	47	111.4	<10.000	0.0709	11.68	<4.0	151	<4.00
8/6/2014	Wednesday	14.14	<2.5	<10.000	48	103	<10.000	0.0458	13.28	<4.0	130.7	6.84
8/12/2014	Tuesday	14.60	<2.5	<10.000	51	101.9	<10.000	0.0957	<10.000	<4.0	134.2	<4.00
8/13/2014	Wednesday	53.32	<2.5	<10.000	37	110.1	14.07	0.131	14.52	<4.0	167.8	5.55
8/19/2014	Tuesday	14.63	<2.5	<10.000	50	112.9	<10.000	0.0452	14.8	<4.0	156	<4.00
8/20/2014	Wednesday	14.19	<2.5	<10.000	47	114.8	<10.000	0.0449	14.26	<4.0	160.6	<4.00
8/26/2014	Tuesday	14.10	<2.5	<10.000	40	143.2	<10.000	0.0519	24.62	<4.0	171.1	4.61
8/27/2014	Wednesday	14.29	<2.5	<10.000	49	125.3	<10.000	0.0345	18.01	<4.0	172.9	<4.00
9/2/2014	Tuesday	14.69	<2.5	<10.000	41	78.19	<10.000	0.0327	<10.000	<4.0	91.8	<4.00
9/3/2014	Wednesday	13.95	<2.5	15.21	49	144.5	<10.000	0.0881	24.55	<4.0	185.1	<4.00
9/9/2014	Tuesday	14.42	<2.5	<10.000	52	119.6	<10.000	0.0674	11.62	<4.0	205.2	5.44
9/10/2014	Wednesday	14.03	<2.5	<10.000	53	100.7	<10.000	0.0464	<10.000	<4.0	149.4	<4.00
9/16/2014	Tuesday	14.48	<2.5	<10.000	61	112.8	<10.000	0.0982	14.27	<4.0	185.5	<4.00
9/17/2014	Wednesday	13.56	<2.5	<10.000	49	85.71	<10.000	0.0337	14.29	<4.0	115.3	<4.00
9/23/2014	Tuesday	14.10	<2.5	<10.000	39	110	<10.000	0.0541	12.8	<4.0	141.5	<4.00
9/24/2014	Wednesday	14.98	<2.5	<10.000	40	96.25	<10.000	0.0476	13.17	<4.0	138.4	<4.00
9/30/2014	Tuesday	15.93	<2.5	<10.000	59	103.3	<10.000	0.0474	15.33	<4.0	125.1	<4.00
10/1/2014	Wednesday	25.28	<2.5	<10.000	46	103.5	11.32	0.0409	14.17	<4.0	180.9	<4.00
10/7/2014	Tuesday	15.34	<2.5	<10.000	54	75.57	<10.000	0.056	12.52	<4.0	109.4	4.07
10/8/2014	Wednesday	14.66	<2.5	<10.000	42	91.95	<10.000	0.0775	12.55	<4.0	136	6.48
10/14/2014	Tuesday	14.60	<2.5	<10.000	46	80.28	<10.000	0.0444	<10.000	<4.0	97.78	<4.00
10/15/2014	Wednesday	14.42	<2.5	<10.000	55	78.43	<10.000	0.0176	13.19	<4.0	120.2	<4.00
10/21/2014	Tuesday	19.09	<2.5	<10.000	41	74.96	<10.000	0.0535	13.55	<4.0	130.1	<4.00
10/22/2014	Wednesday	27.63	<2.5	<10.000	44	64.31	<10.000	0.0746	12.04	<4.0	121.3	<4.00
10/28/2014	Tuesday	14.46	<2.5	<10.000	40	70.28	<10.000	0.141	11.29	<4.0	121.9	<4.00
10/29/2014	Wednesday	14.15	<2.5	<10.000	44	80.08	<10.000	0.0752	10.78	<4.0	131.6	4.08
11/4/2014	Tuesday	14.10	<2.5	<10.000	46	111.3	<10.000	0.109	14.6	4.216	125.9	4.82
11/5/2014	Wednesday	14.27	<2.5	<10.000	60	67.71	<10.000	0.0587	16.25	<4.0	131	4.17
11/11/2014	Tuesday	14.03	<2.5	<10.000	50	102	<10.000	0.0616	31.87	<4.0	133.1	5.05
11/12/2014	Wednesday	14.18	<2.5	<10.000	47	91.21	<10.000	0.0773	23.41	<4.0	152.6	4.71
11/18/2014	Tuesday	16.04	<2.5	<10.000	26	59.93	<10.000	0.0426	74.48	<4.0	89.57	6.38
11/19/2014	Wednesday	14.84	<2.5	<10.000	49	55.75	<10.000	0.0447	19.55	<4.0	96.36	6.94
11/24/2014	Monday	39.34	<2.5	<10.000	52	49.31	<10.000	0.0557	16.6	<4.0	105.8	
11/25/2014	Tuesday	16.53	<2.5	<10.000	40	57.24	<10.000	0.0458	27.34	<4.0	102.2	4.24
11/26/2014	Wednesday	51.01										4.89
12/2/2014	Tuesday	17.94	<2.5	<10.000	47	53.78	<10.000	0.0564	15.08	<4.0	129.1	<4.00
12/3/2014	Wednesday	23.22	<2.5	<10.000	37	36.92	<10.000	0.0355	<10.000	<4.0	88.5	<4.00
12/9/2014	Tuesday	65.76	<2.5	<10.000	24	32.16	<10.000	0.0192	<10.000	<4.0	62.49	5.84
12/10/2014	Wednesday	33.95	<2.5	<10.000	14	27.06	<10.000	0.0301	15	<4.0	58.17	6.55
12/16/2014	Tuesday	22.69	<2.5	<10.000	48	33.29	<10.000	0.0229	<10.000	<4.0	67.37	6.95
12/17/2014	Wednesday	29.86	<2.5	<10.000	41	29.31	<10.000	0.023	<10.000	<4.0	67.35	5.7
12/22/2014	Monday	20.67	<2.5	<10.000	35	42.78	<10.000		<10.000	<4.0	83.65	
12/23/2014	Tuesday	24.13	<2.5	<10.000	28	67.95	<10.000	0.081	<10.000	<4.0	124.2	5.53
12/24/2014	Wednesday	33.66						0.15				4.01
12/29/2014	Monday	20.01	<2.5	<10.000	58	35.4	<10.000	0.0236	<10.000	<4.0	68.6	
12/30/2014	Tuesday	19.95	<2.5	<10.000	34	55.53	16.06	0.1	10.2	<4.0	92.96	<4.00
12/31/2014	Wednesday	20.02										4.91

Table 9: Bucklin Point Influent Metals and Cyanide (Cd-CN)

Bucklin Point Influent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Al	Fe	Se	As	Mo	Sn
1/1/2014	Wednesday	18.42	346.9	1270				<5.00
1/7/2014	Tuesday	20.09	269.7	1233	<1.0	1.324	1.847	<5.00
1/8/2014	Wednesday	20.15	377.2	1253				<5.00
1/14/2014	Tuesday	41.57	357.4	1194	<1.0	1.084	4.483	<5.00
1/15/2014	Wednesday	24.00	548.4	1156				<5.00
1/21/2014	Tuesday	21.87	239.9	1176	<1.0	0.967	1.287	<5.00
1/22/2014	Wednesday	21.30	255	1011				<5.00
1/28/2014	Tuesday	20.05	328.2	1048	<1.0	1.109	2.221	<5.00
1/29/2014	Wednesday	19.84	257.6	1107				<5.00
2/4/2014	Tuesday	19.95	374.3	1171	<1.0	1.179	3.169	<5.00
2/5/2014	Wednesday	20.05	367.7	1163				<5.00
2/11/2014	Tuesday	17.81	278.6	1125	<1.0	1.182	3.021	<5.00
2/12/2014	Wednesday	17.98	312.8	1106				<5.00
2/18/2014	Tuesday	20.48	348.3	1097	<1.0	1.198	8.706	<5.00
2/19/2014	Wednesday	28.53	292.6	1019				<5.00
2/25/2014	Tuesday	25.02	253.3	979.3	<1.0	0.9643	5.37	<5.00
2/26/2014	Wednesday	24.89	251.9	975.8				<5.00
3/4/2014	Tuesday	21.70	282.3	983.6	<1.0	1.03	5.318	<5.00
3/5/2014	Wednesday	21.73	245	911.9				<5.00
3/11/2014	Tuesday	21.99	483.3	1113	<1.0	0.976	1.468	<5.00
3/12/2014	Wednesday	31.05	384.3	1382				<5.00
3/18/2014	Tuesday	20.50	220.1	757.2	<1.0	0.5167	6.109	<5.00
3/19/2014	Wednesday	21.42	280.9	984.8				<5.00
3/25/2014	Tuesday	20.57	303.2	951.9	<1.0	0.989	3.457	<5.00
3/26/2014	Wednesday	21.29	286	901.6				<5.00
4/1/2014	Tuesday	40.39	262	896.6	<1.0	0.954	1.572	<5.00
4/2/2014	Wednesday	34.39	180.3	801.6				<5.00
4/8/2014	Tuesday	48.36	502.6	1356	<1.0	1.005	3.495	<5.00
4/9/2014	Wednesday	27.86	213.6	949.3				<5.00
4/15/2014	Tuesday	52.42	367.3	899	<1.0	0.972	1.995	<5.00
4/16/2014	Wednesday	46.10	605.3	966.1				<5.00
4/22/2014	Tuesday	26.54	296.6	926.2	<1.0	1.118	4.123	<5.00
4/23/2014	Wednesday	31.11	604.6	1372				<5.00
4/29/2014	Tuesday	23.85	226	876.4	<1.0	0.776	1.886	<5.00
4/30/2014	Wednesday	35.69	276.1	939.2				<5.00
5/6/2014	Tuesday	23.69	242	955.8	<1.0	0.7913	2.098	<5.00
5/7/2014	Wednesday	23.35	266.1	1079				<5.00
5/13/2014	Tuesday	21.18	253.7	1022	<1.0	0.95	2.355	<5.00
5/14/2014	Wednesday	21.23	268	1238				<5.00
5/20/2014	Tuesday	20.51	308.7	1222	<1.0	0.9837	1.681	<5.00
5/21/2014	Wednesday	20.46	286.2	1118				<5.00
5/27/2014	Tuesday	19.21	262	1038	<1.0	0.9433	1.11	<5.00

Table 10: Bucklin Point Influent Metals (Al-Sn)

Bucklin Point Influent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Al	Fe	Se	As	Mo	Sn
5/28/2014	Wednesday	20.20	329.7	1191				<5.00
6/3/2014	Tuesday	19.63	676.2	1733	<1.0	1.238	3.003	<5.00
6/4/2014	Wednesday	20.68	431.9	1462				<5.00
6/10/2014	Tuesday	29.69	693.9	1577	<1.0	1.328	5.337	<5.00
6/11/2014	Wednesday	19.20	367.5	1217				<5.00
6/17/2014	Tuesday	17.82	296.4	1116	<1.0	1.067	2.594	<5.00
6/18/2014	Wednesday	17.43	339.3	1141				<5.00
6/24/2014	Tuesday	16.47	294.7	1472	<1.0	1.23	1.704	<5.00
6/25/2014	Wednesday	16.90	339.8	1200				<5.00
7/1/2014	Tuesday	15.87	343.9	1233	<1.0	1.42	4.976	<5.00
7/2/2014	Wednesday	15.91	294.5	1160				<5.00
7/8/2014	Tuesday	16.14	249.8	1045	<1.0	0.8587	1.841	<5.00
7/9/2014	Wednesday	15.92	316.9	1065				<5.00
7/15/2014	Tuesday	18.15	464.3	1427	<1.0	1.135	5.851	<5.00
7/16/2014	Wednesday	36.30	506.4	1334				<5.00
7/22/2014	Tuesday	15.00	321.3	1293.9	<1.0	1.232	3.986	<5.00
7/23/2014	Wednesday	15.47	303.4	1228.5				<5.00
7/29/2014	Tuesday	14.62	345.4	1243.1	<1.0	1.42	4.673	<5.00
7/30/2014	Wednesday	14.39	305.5	1143.8				<5.00
8/5/2014	Tuesday	14.28	370.3	1215.4	<1.000	1.335	2.259	<5.00
8/6/2014	Wednesday	14.14	281.1	1092				<5.00
8/12/2014	Tuesday	14.60	303	1205	<1.000	1.202	2.144	<5.00
8/13/2014	Wednesday	53.32	713.1	1676				<5.00
8/19/2014	Tuesday	14.63	331.9	1385	<1.000	1.288	3.602	<5.00
8/20/2014	Wednesday	14.19	351.2	1391				<5.00
8/26/2014	Tuesday	14.10	421.1	1440	<1.000	1.26	1.975	<5.00
8/27/2014	Wednesday	14.29	552.1	1476				<5.00
9/2/2014	Tuesday	14.69	212.6	849.9	<1.000	1.119	1.096	<5.00
9/3/2014	Wednesday	13.95	468.2	1506				<5.00
9/9/2014	Tuesday	14.42	478.1	2942	1.001	1.622	3.864	<5.00
9/10/2014	Wednesday	14.03	355.9	1353				<5.00
9/16/2014	Tuesday	14.48	450.7	1653	<1.000	1.559	5.526	<5.00
9/17/2014	Wednesday	13.56	231.6	1138				<5.00
9/23/2014	Tuesday	14.10	344.4	1333	<1.000	1.444	3.056	<5.00
9/24/2014	Wednesday	14.98	325.1	1276				<5.00
9/30/2014	Tuesday	15.93	377.7	1140	<1.000	1.373	3.585	<5.00
10/1/2014	Wednesday	25.28	623	1600				<5.00
10/7/2014	Tuesday	15.34	282	983.1	<1.000	1.198	3.752	<5.00
10/8/2014	Wednesday	14.66	307.6	1252				<5.00
10/14/2014	Tuesday	14.60	240	1018	<1.000	1.26	1.974	<5.00
10/15/2014	Wednesday	14.42	317.6	1020				<5.00
10/21/2014	Tuesday	19.09	364.1	1240	<1.000	1.408	3.553	<5.00

Table 10: Bucklin Point Influent Metals (Al-Sn)



Bucklin Point Influent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Influent Flow	Al	Fe	Se	As	Mo	Sn
10/22/2014	Wednesday	27.63	443.4	1332				<5.00
10/28/2014	Tuesday	14.46	278.8	1173	<1.000	1.271	3.409	<5.00
10/29/2014	Wednesday	14.15	291.7	1309				<5.00
11/4/2014	Tuesday	14.10	1294	1231	<1.000	1.418	8.513	<5.00
11/5/2014	Wednesday	14.27	568.6	1325				<5.00
11/11/2014	Tuesday	14.03	600.8	1337	<1.000	1.38	1.915	<5.00
11/12/2014	Wednesday	14.18	393.8	1250				<5.00
11/18/2014	Tuesday	16.04	465.7	1385	<1.000	1.275	3.035	<5.00
11/19/2014	Wednesday	14.84	282.7	1321				<5.00
11/24/2014	Monday	39.34	442.8	1252	<1.000	1.015	2.048	<5.00
11/25/2014	Tuesday	16.53	319.3	1254				<5.00
12/2/2014	Tuesday	17.94	300.5	1205	<1.000	1.205	3.14	<5.00
12/3/2014	Wednesday	23.22	349	870.9				<5.00
12/9/2014	Tuesday	65.76	193.8	766.1	<1.000	0.937	3.516	<5.00
12/10/2014	Wednesday	33.95	192.4	658.9				<5.00
12/16/2014	Tuesday	22.69	134.1	809.2	<1.000	1.002	2.578	<5.00
12/17/2014	Wednesday	29.86	148.5	792.5				<5.00
12/22/2014	Monday	20.67	207.3	949.9	<1.000	0.972	2.1	<5.00
12/23/2014	Tuesday	24.13	364.2	1249				<5.00
12/29/2014	Monday	20.01	170.2	844.1	<1.000	1.015	2.047	<5.00
12/30/2014	Tuesday	19.95	221.4	944.3				<5.00

Table 10: Bucklin Point Influent Metals (Al-Sn)

Bucklin Point Effluent Metals Cd - CN 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
1/1/2014	Wednesday	18.42	0.045	0.37	<10.000	4.8	0.49	0.00225	3.99	0.041	35.56	<4.00
1/7/2014	Tuesday	20.09	0.06	0.642	<10.000	6.904	0.597	0.00274	3.799	0.059	50.01	4.78
1/8/2014	Wednesday	20.15	0.065	0.59	<10.000	6.97	0.62	0.00278	4.34	0.059	46.7	3.22
1/14/2014	Tuesday	32.96	<0.04	0.6	<10.000	4.88	0.48	0.00333	9.92	0.04	34.6	<4.00
1/15/2014	Wednesday	24.00	0.054	0.54	<10.000	5.92	0.5	0.00556	15.46	0.036	38.81	<4.00
1/21/2014	Tuesday	21.87	0.052	0.68	<10.000	5.78	0.62	0.00320	19.13	0.066	37.64	<4.00
1/22/2014	Wednesday	21.30	0.05	0.57	<10.000	9.43	0.6	0.0028	11.66	0.073	35.81	<4.00
1/28/2014	Tuesday	20.05	0.048	0.68	<10.000	5.38	0.65	0.00314	16.26	0.049	35.17	<8.00
1/29/2014	Wednesday	19.84	0.053	0.59	<10.000	6.5	0.56	<0.002	17.39	0.055	32.76	<8.00
2/4/2014	Tuesday	19.95	0.058	0.544	<10.000	6.311	0.54	0.00253	16.1	0.07	35.927	<8.00
2/5/2014	Wednesday	20.05	0.05	0.57	<10.000	5.85	0.47	0.00245	10.04	0.123	43.3	<20.00
2/11/2014	Tuesday	17.81	0.05	0.8	<10.000	6.46	0.58	0.00369	5.14	0.076	42.38	<4.00
2/12/2014	Wednesday	17.98	0.049	0.87	<10.000	7.41	0.7	0.00426	6.31	0.091	42.16	<4.00
2/18/2014	Tuesday	20.48	0.047	0.63	<10.000	6.1	0.73	0.00277	18.93	0.077	39.87	<4.00
2/19/2014	Wednesday	28.53	0.052	1.01	<10.000	8.65	1.05	0.00602	15.86	0.126	66.55	4.47
2/25/2014	Tuesday	25.02	0.044	0.67	<10.000	5.12	0.64	0.00283	17.57	0.093	39.51	5.78
2/26/2014	Wednesday	24.89	0.049	1.65	<10.000	6.99	0.64	0.00397	30.1	0.101	36.78	5.54
3/4/2014	Tuesday	21.70	0.058	0.793	<10.000	5.836	0.654	0.00372	8.363	0.076	38.543	5.35
3/5/2014	Wednesday	21.73	0.056	0.87	<10.000	5.99	0.65	0.00379	8.55	0.088	40	<4.00
3/11/2014	Tuesday	21.99	0.06	0.86	<10.000	6.21	0.56	0.00299	6.55	0.075	40.08	<4.00
3/12/2014	Wednesday	29.95	0.06	0.8	<10.000	10.02	0.65	0.00417	5.99	0.11	38.77	4.11
3/18/2014	Tuesday	20.50	0.064	0.75	<10.000	5.83	0.55	0.00355	4.43	0.064	37.78	4.53
3/19/2014	Wednesday	21.42	0.072	1	<10.000	7.46	0.78	0.00362	4.85	0.092	41.91	5.95
3/25/2014	Tuesday	20.57	0.05	0.81	<10.000	5.76	0.68	0.00292	5.93	0.082	38.25	<8.00
3/26/2014	Wednesday	21.29	0.047	0.91	<10.000	5.72	0.59	0.00351	5.88	0.085	38.54	<8.00
4/1/2014	Tuesday	39.88	0.046	1.26	<10.000	7.85	1.2	0.00923	6.05	0.159	36.33	6.47
4/2/2014	Wednesday	34.39	0.042	0.8	<10.000	4.77	0.67	0.00351	6.93	0.072	35.23	4.2
4/8/2014	Tuesday	41.31	0.048	1.336	<10.000	9.151	1.169	0.01150	4.762	0.15	35.94	4.51
4/9/2014	Wednesday	27.86	0.047	0.72	<10.000	4.77	0.56	0.00469	5.09	0.052	39.85	<4.00
4/15/2014	Tuesday	37.62	0.071	1.5	22	11.46	1.2	0.00957	4.85	0.145	37.37	<4.00
4/16/2014	Wednesday	35.46	0.047	0.93	<10.000	6.5	0.57	0.00595	3.57	0.069	32.24	<4.00
4/22/2014	Tuesday	26.54	0.058	0.72	<10.000	5.25	0.49	0.00554	3.27	0.081	33.25	<8.00
4/23/2014	Wednesday	31.11	0.045	0.8	<10.000	5.53	0.56	0.00913	3.38	0.074	33.57	<8.00
4/29/2014	Tuesday	23.85	0.046	0.67	<10.000	5.71	0.45	0.00212	7.56	0.056	31.9	<4.00
4/30/2014	Wednesday	33.97	0.042	0.97	<10.000	6.84	0.62	0.00373	8.3	0.076	32.47	<4.00
5/6/2014	Tuesday	23.69	0.052	0.514	<10.000	8.071	0.436	0.00336	5.33	0.044	35.73	<4.00
5/7/2014	Wednesday	23.35	0.074	0.69	<10.000	9.47	0.5	0.00342	5.35	0.054	42.52	
5/9/2014	Friday	23.15										4.05
5/13/2014	Tuesday	21.18	0.059	0.64	<10.000	8.36	0.43	0.00403	4.87	0.049	35.86	4.51
5/14/2014	Wednesday	21.23	0.064	0.88	<10.000	9.3	0.46	0.00311	5.94	0.054	38.92	<4.00
5/20/2014	Tuesday	20.51	0.064	1.44	33	9.17	0.55	0.00277	4.74	0.075	40.39	4
5/21/2014	Wednesday	20.46	0.057	1.18	<10.000	8.9	0.59	0.00576	4.89	0.066	41.01	4.86
5/27/2014	Tuesday	19.21	0.058	0.5	<10.000	8.61	0.46	0.00438	4.53	0.05	33.65	6.52
5/28/2014	Wednesday	20.20	0.071	0.84	<10.000	11.04	0.56	0.00359	5.46	0.055	41.37	6.34
6/3/2014	Tuesday	19.63	0.067	0.883	<10.000	10.367	0.628	0.00459	5.341	0.054	42.62	4.4
6/4/2014	Wednesday	20.68	0.045	1.07	<10.000	11.95	0.65	0.00368	6.76	0.058	41.9	4.48

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd-CN)

Bucklin Point Effluent Metals Cd - CN 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
6/10/2014	Tuesday	29.69	0.05	0.83	<10.000	10.41	0.64	0.00587	3.91	0.079	37.14	<4.00
6/11/2014	Wednesday	19.20	0.05	0.71	<10.000	8.94	0.6	0.00289	4.59	0.05	41.87	<4.00
6/17/2014	Tuesday	17.82	0.069	0.63	<10.000	11.71	0.51	0.00464	4.42	0.043	42.17	4.12
6/18/2014	Wednesday	17.43	0.054	0.66	<10.000	11.05	0.45	0.00314	4.4	0.043	39.85	<4.00
6/24/2014	Tuesday	16.47	0.156	0.73	<10.000	7.23	0.5	0.00374	4.73	0.029	41	4.58
6/25/2014	Wednesday	16.90	0.098	0.89	<10.000	8.66	0.53	0.00247	6.01	0.03	38.85	4.76
7/1/2014	Tuesday	15.87	0.042	0.44	<10.000	6.18	0.53	0.00303	3.42	0.054	37.2	4.69
7/2/2014	Wednesday	15.91	0.051	0.45	<10.000	7.19	0.51	0.00424	3.9	0.027	40.28	4.37
7/8/2014	Tuesday	16.14	0.052	0.422	<10.000	9.885	0.466	0.00206	6.763	0.051	39.007	4.06
7/9/2014	Wednesday	15.92	0.126	0.52	<10.000	10.69	0.49	<0.002	7.36	0.044	45.41	4.57
7/15/2014	Tuesday	18.15	0.061	1	<10.000	11.58	0.39	0.00236	4.94	0.026	42.31	<4.00
7/16/2014	Wednesday	28.70	0.055	0.85	<10.000	11.94	0.55	0.00424	5.26	0.056	38.22	<4.00
7/22/2014	Tuesday	15.00	0.05	0.64	<10.000	9.9	0.48	0.00289	6.02	0.036	39.43	<4.00
7/23/2014	Wednesday	15.47	0.067	0.81	<10.000	8.86	0.5	0.00278	6.7	0.036	41.25	<4.00
7/29/2014	Tuesday	14.62	0.063	0.977	<10.000	11.957	0.511	0.00354	6.941	0.061	44.757	<4.00
7/30/2014	Wednesday	14.39	0.18	0.87	<10.000	11.84	0.52	0.00375	7.16	0.05	43.33	<4.00
8/5/2014	Tuesday	14.28	0.08	0.614	<10.000	12.31	0.522	<0.002	7.243	0.049	46.197	7.04
8/6/2014	Wednesday	14.14	0.104	0.74	<10.000	13.91	0.65	0.00337	7.32	0.075	48.12	4.22
8/12/2014	Tuesday	14.60	0.071	0.439	<10.000	11.727	0.458	0.00867	3.941	0.096	39.343	<4.00
8/13/2014	Wednesday	34.04	<0.040	0.897	<10.000	14.49	0.702	0.00796	4.165	0.168	31.407	<4.00
8/19/2014	Tuesday	14.63	0.059	0.547	<10.000	12.157	0.471	0.00292	6.659	0.074	40.45	<4.00
8/20/2014	Wednesday	14.19	0.06	0.687	<10.000	11.593	0.475	0.00295	7.193	0.089	41.633	<4.00
8/26/2014	Tuesday	14.10	0.053	0.709	<10.000	10.21	0.502	<0.002	9.075	0.058	41.48	4.33
8/27/2014	Wednesday	14.29	0.058	0.541	<10.000	10.42	0.514	0.00209	7.433	0.081	42.033	<4.00
9/2/2014	Tuesday	14.69	0.065	0.6	<10.000	10.4	0.39	0.00281	6.063	0.059	39.893	<4.00
9/3/2014	Wednesday	13.95	0.07	0.933	<10.000	12.623	0.409	0.00254	6.955	0.069	42.507	<4.00
9/9/2014	Tuesday	14.42	0.047	0.85	<10.000	12.26	0.513	0.00541	5.028	0.085	43.007	<4.00
9/10/2014	Wednesday	14.03	0.055667	0.82	<10.000	11.697	0.422	0.00374	4.508	0.074	39.217	4.21
9/16/2014	Tuesday	14.48	0.059	0.705	<10.000	12.547	0.4	0.00423	4.542	0.076	41.1	<8.00
9/17/2014	Wednesday	13.56	0.045	0.797	<10.000	12.343	0.411	0.0044	5.8	0.091	40.337	<4.00
9/23/2014	Tuesday	14.10	0.065	0.602	<10.000	10.91	0.495	0.00429	3.943	0.079	43.687	4.95
9/24/2014	Wednesday	14.98	0.048	0.66	<10.000	10.727	0.519	0.00445	4.429	0.085	44.04	4.64
9/30/2014	Tuesday	15.93	0.049	1.008	<10.000	14.757	0.543	0.00378	6.89	0.123	40.54	<4.00
10/1/2014	Wednesday	24.73	0.048	1.191	<10.000	17.173	0.762	0.00752	5.427	0.185	39.993	<4.00
10/7/2014	Tuesday	15.34	0.058	1.226	<10.000	19.707	0.616	0.00583	7.68	0.117	47.74	<8.00
10/8/2014	Wednesday	14.66	0.061	1.604	<10.000	18.113	0.601	0.00476	7.411	0.115	47.347	<8.00
10/14/2014	Tuesday	14.60	0.068	0.568	<10.000	14.413	0.627	0.00292	5.021	0.086	46.877	4.1
10/15/2014	Wednesday	14.42	0.079	0.874	<10.000	14.72	0.618	0.00438	7.375	0.093	48.053	4.65
10/21/2014	Tuesday	19.09	0.053	1.184	<10.000	12.317	0.757	0.0054	6.359	0.12	44.2	4.93
10/22/2014	Wednesday	17.09	0.045	1.238	<10.000	14.07	1.066	0.00624	6.701	0.211	43.403	5.2
10/28/2014	Tuesday	14.46	0.068	0.977	<10.000	11.53	0.916	0.00405	6.421	0.141	46.737	<4.00
10/29/2014	Wednesday	14.15	0.06	1.077	<10.000	14.86	1.056	0.00512	6.88	0.154	47.867	<4.00
11/4/2014	Tuesday	14.10	0.063	1.121	<10.000	15.46	1.133	0.00728	6.851	0.246	47.227	<4.00
11/5/2014	Wednesday	14.27	0.059	1.602	<10.000	15.737	1.049	0.00611	8.333	0.235	46.85	<4.00
11/11/2014	Tuesday	14.03	0.06	0.829	<10.000	13.01	0.973	0.00648	11.54	0.161	50.157	<8.00
11/12/2014	Wednesday	14.18	0.056	1.023	<10.000	11.133	0.823	0.0048	12.943	0.152	49.39	4.08

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd-CN)

Bucklin Point Effluent Metals Cd - CN 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Cd	TTL Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN
11/18/2014	Tuesday	16.04	<0.040	0.973	<10.000	8.749	0.683	0.00375	16.363	0.122	35.43	4.95
11/19/2014	Wednesday	14.84	0.067	1.002	<10.000	11.65	0.79	0.00425	16.53	0.126	52.223	5.76
11/24/2014	Monday	28.68	0.045	1	<10.000	9.924	0.707	0.00515	10.25	0.119	31.093	
11/25/2014	Tuesday	16.53	0.041	1.123	<10.000	9.192	0.557	0.00744	12.9	0.075	38.373	<4.00
11/26/2014	Wednesday	32.33										<4.00
12/2/2014	Tuesday	17.94	0.049	0.771	<10.000	7.97	0.71	0.00389	7.144	0.074	43.71	<4.00
12/3/2014	Wednesday	23.22	<0.040	0.783	<10.000	7.144	0.547	0.00355	5.746	0.059	37.177	<4.00
12/9/2014	Tuesday	36.66	0.074	1.387	<10.000	15.29	1.526	0.0118	5.086	0.25	36.887	<4.00
12/10/2014	Wednesday	33.95	0.058	1.459	<10.000	18.17	1.593	0.0131	7.478	0.263	38.013	<4.00
12/16/2014	Tuesday	22.69	0.062	1.14	<10.000	14.86	1.476	0.0133	5.37	0.237	38.293	4.27
12/17/2014	Wednesday	29.86	<0.040	0.52	<10.000	6.711	0.55	0.00451	3.744	0.066	29.803	4.03
12/22/2014	Monday	20.67	0.052	0.407	<10.000	6.991	0.458		4.883	0.053	32.077	
12/23/2014	Tuesday	24.13	0.049	0.553	<10.000	7.607	0.62	0.00568	4.706	0.068	36.597	<4.00
12/24/2014	Wednesday	30.74						0.0155				<4.00
12/29/2014	Monday	20.01	0.1	0.357	<10.000	7.139	0.484	0.0027	3.349	0.05	32.007	
12/30/2014	Tuesday	19.95	0.058	0.483	<10.000	7.909	0.562	0.00445	4.428	0.05	36.047	<4.00
12/31/2014	Wednesday	20.02										6.08

Table 11: Bucklin Point Effluent Metals and Cyanide (Cd-CN)

Bucklin Point Effluent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Al	Fe	Se	As	Mo	Sn
1/1/2014	Wednesday	18.42	17.85	124.7				<5.00
1/7/2014	Tuesday	20.09	24.16	128.6	<1.0	1.19	1.83	<5.00
1/8/2014	Wednesday	20.15	23.69	149.5				<5.00
1/14/2014	Tuesday	32.96	15.63	101				<5.00
1/15/2014	Wednesday	24.00	20.75	98.44				<5.00
1/21/2014	Tuesday	21.87	23.25	125.3				<5.00
1/22/2014	Wednesday	21.30	22.94	122.2				<5.00
1/28/2014	Tuesday	20.05	25.71	140.8				<5.00
1/29/2014	Wednesday	19.84	23.2	135.2				<5.00
2/4/2014	Tuesday	19.95	21.483	122.5	<1.0	1.00	2.45	<5.00
2/5/2014	Wednesday	20.05	22.26	129.6				<5.00
2/11/2014	Tuesday	17.81	25.57	157				<5.00
2/12/2014	Wednesday	17.98	27.11	158.3				<5.00
2/18/2014	Tuesday	20.48	30.31	151.4				<5.00
2/19/2014	Wednesday	28.53	53.33	238.4				<5.00
2/25/2014	Tuesday	25.02	26.07	152.4				<5.00
2/26/2014	Wednesday	24.89	29.06	154.5				<5.00
3/4/2014	Tuesday	21.70	33.203	167.7	<1.00	0.95	2.86	<5.00
3/5/2014	Wednesday	21.73	32.72	163.2				<5.00
3/11/2014	Tuesday	21.99	23.6	135.3				<5.00
3/12/2014	Wednesday	29.95	33.7	171				<5.00
3/18/2014	Tuesday	20.50	22.45	138.2				<5.00
3/19/2014	Wednesday	21.42	35.32	192.8				<5.00
3/25/2014	Tuesday	20.57	23.82	144.6				<5.00
3/26/2014	Wednesday	21.29	24.67	139.9				<5.00
4/1/2014	Tuesday	39.88	68.66	281.6				<5.00
4/2/2014	Wednesday	34.39	35.54	161				<5.00
4/8/2014	Tuesday	41.31	61.89	291.1	<1.00	0.79	2.24	<5.00
4/9/2014	Wednesday	27.86	24.29	151.9				<5.00
4/15/2014	Tuesday	37.62	69.83	353.8				<5.00
4/16/2014	Wednesday	35.46	34.23	156.4				<5.00
4/22/2014	Tuesday	26.54	18.87	119.7				<5.00
4/23/2014	Wednesday	31.11	22.57	133.5				<5.00
4/29/2014	Tuesday	23.85	19.42	101.2				<5.00
4/30/2014	Wednesday	33.97	29.51	142.3				<5.00
5/6/2014	Tuesday	23.69	19.113	125.2	<1.00	0.72	2.13	<5.00
5/7/2014	Wednesday	23.35	23.75	135.4				<5.00
5/13/2014	Tuesday	21.18	19.42	124.7				<5.00
5/14/2014	Wednesday	21.23	20.4	106.6				<5.00

Table 12: Bucklin Point Effluent Metals (Al-Sn)

Bucklin Point Effluent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Al	Fe	Se	As	Mo	Sn
5/20/2014	Tuesday	20.51	20.11	114.3				<5.00
5/21/2014	Wednesday	20.46	21.57	122.7				<5.00
5/27/2014	Tuesday	19.21	18.45	105.9				<5.00
5/28/2014	Wednesday	20.20	22.57	129.7				<5.00
6/3/2014	Tuesday	19.63	25.523	149.7	<1.00	0.91	2.46	<5.00
6/4/2014	Wednesday	20.68	28.73	142.1				<5.00
6/10/2014	Tuesday	29.69	27.72	144.5				<5.00
6/11/2014	Wednesday	19.20	19.98	112.2				<5.00
6/17/2014	Tuesday	17.82	16.99	119.9				<5.00
6/18/2014	Wednesday	17.43	16.28	101.4				<5.00
6/24/2014	Tuesday	16.47	13.77	99.02				<5.00
6/25/2014	Wednesday	16.90	15.08	110.6				<5.00
7/1/2014	Tuesday	15.87	11.83	95.13				<5.00
7/2/2014	Wednesday	15.91	14.66	101.6				<5.00
7/8/2014	Tuesday	16.14	13.457	86.32	<1.0	0.71	1.31	<5.00
7/9/2014	Wednesday	15.92	13.46	87.15				<5.00
7/15/2014	Tuesday	18.15	13.12	76.35				<5.00
7/16/2014	Wednesday	28.70	22.93	123.2				<5.00
7/22/2014	Tuesday	15.00	11.34	78.74				<5.00
7/23/2014	Wednesday	15.47	21.4	78.86				<5.00
7/29/2014	Tuesday	14.62	11.173	78.28				<5.00
7/30/2014	Wednesday	14.39	14.46	77.79				<5.00
8/5/2014	Tuesday	14.28	26.983	91.34	<1.00	0.92	2.05	<5.00
8/6/2014	Wednesday	14.14	23.33	124				<5.00
8/12/2014	Tuesday	14.60	11.947	83.837				<5.00
8/13/2014	Wednesday	34.04	36.45	178.1				<5.00
8/19/2014	Tuesday	14.63	12.717	85.82				<5.00
8/20/2014	Wednesday	14.19	12.303	83.287				<5.00
8/26/2014	Tuesday	14.10	14.083	71.437				<5.00
8/27/2014	Wednesday	14.29	14.843	74.703				<5.00
9/2/2014	Tuesday	14.69	10.5	68.537				<5.00
9/3/2014	Wednesday	13.95	11.587	71.777				<5.00
9/9/2014	Tuesday	14.42	16.63	121.267	<1.000	1.148	2.334	<5.00
9/10/2014	Wednesday	14.03	15.567	94.167				<5.00
9/16/2014	Tuesday	14.48	15.22	84.79				<5.00
9/17/2014	Wednesday	13.56	14.77	84.107				<5.00
9/23/2014	Tuesday	14.10	15.583	86.327				<5.00
9/24/2014	Wednesday	14.98	15.16	85.46				<5.00
9/30/2014	Tuesday	15.93	20.45	120.533				<5.00

Table 12: Bucklin Point Effluent Metals (Al-Sn)

Bucklin Point Effluent Metals Al - Sn 2014  
all analyses in ppb

Date	Day of the Week	Effluent Flow	Al	Fe	Se	As	Mo	Sn
10/1/2014	Wednesday	24.73	37.71	200.067				<5.00
10/7/2014	Tuesday	15.34	26.613	98.3	<1.000	1.145	2.624	<5.00
10/8/2014	Wednesday	14.66	27.013	103.867				<5.00
10/14/2014	Tuesday	14.60	23.037	97.197				<5.00
10/15/2014	Wednesday	14.42	22.303	96.657				<5.00
10/21/2014	Tuesday	19.09	30.413	137.7				<5.00
10/22/2014	Wednesday	17.09	51.35	206.9				<5.00
10/28/2014	Tuesday	14.46	32.663	141.233				<5.00
10/29/2014	Wednesday	14.15	39.337	198.1				<5.00
11/4/2014	Tuesday	14.10	47.023	229.433				<5.00
11/5/2014	Wednesday	14.27	48.457	217.5				<5.00
11/11/2014	Tuesday	14.03	37.897	160.533				<5.00
11/12/2014	Wednesday	14.18	33.623	138.4				<5.00
11/18/2014	Tuesday	16.04	30.17	132.067	<1.000	0.945	3.123	<5.00
11/19/2014	Wednesday	14.84	28.423	123.633				<5.00
11/24/2014	Monday	28.68	31.573	133.567				<5.00
11/25/2014	Tuesday	16.53	23.21	91.07				<5.00
12/2/2014	Tuesday	17.94	22.903	103.2	<1.000	0.914	2.284	<5.00
12/3/2014	Wednesday	23.22	24.223	94.23				<5.00
12/9/2014	Tuesday	36.66	92.68	344.733				<5.00
12/10/2014	Wednesday	33.95	95.38	382.633				<5.00
12/16/2014	Tuesday	22.69	82.727	374.4				<5.00
12/17/2014	Wednesday	29.86	23.717	119.6				<5.00
12/22/2014	Monday	20.67	20.843	102.38				<5.00
12/23/2014	Tuesday	24.13	26.653	138.167				<5.00
12/29/2014	Monday	20.01	19.8	96.127				<5.00
12/30/2014	Tuesday	19.95	22.817	112.967				<5.00

Table 12: Bucklin Point Effluent Metals (Al-Sn)

Field's Point Influent and Effluent Nutrients 2014

Field's Point Influent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/1/2014	0.118	0.1	0.218	15.2	23.1	3.52	23.32
1/6/2014	0.0869	0.575	0.662	8.4	13.8	2.29	14.46
1/7/2014	0.112	0.525	0.637	14.7	22.3	2.52	22.94
1/8/2014	0.11	0.369	0.479	15.3	25.5	3.76	25.98
1/13/2014	0.0963	0.653	0.749	10.5	15.4	2.79	16.15
1/14/2014	0.0689	0.688	0.757	9.35	15.6	1.99	16.36
1/15/2014	0.0936	0.738	0.832	10.2	11.4	2.1	12.23
1/20/2014	0.118	0.5	0.618	12.9	21.4	3.7	22.02
1/21/2014	0.116	0.7	0.7	15.1	19.4	4.22	20.1
1/22/2014	0.136	0.523	0.659	17.3	28.1	3.83	28.76
1/27/2014	0.158	0.241	0.399	15.9	19.3	3.99	19.7
1/28/2014	0.184	0.252	0.436	18.7	27.7	3.5	28.14
1/29/2014	0.201	0.185	0.386	18.3	28.9	4.12	29.29
2/3/2014	0.259	0.126	0.385	17.9	29.8	6.29	30.19
2/4/2014	0.133	0.181	0.314	17.2	28.9	3.3	29.21
2/5/2014	0.103	0.258	0.361	17.9	26.8	3.43	27.16
2/10/2014	0.088	0.183	0.271	17.7	27.6	4.16	27.87
2/11/2014	0.0897	0.181	0.271	19.2	28.7	3.5	28.97
2/12/2014	0.0782	0.165	0.243	18.4	26.8	4.72	27.04
2/17/2014	0.1	0.599	0.699	15.2	21.1	3.61	21.8
2/18/2014	0.0968	0.554	0.651	15.2	21.4	3.88	22.05
2/19/2014	0.0749	0.595	0.67	13.3	22.8	4.01	23.47
2/24/2014	0.119	1.01	1.13	12.3	18	3.08	19.13
2/25/2014	0.131	0.989	1.12	12.8	19.6	2.98	20.72
2/26/2014	0.142	0.928	1.07	13	20.9	3.28	21.97
3/3/2014	0.15	0.704	0.854	18	27.3	3.44	28.15
3/4/2014	0.115	0.671	0.786	16.1	26.3	2.74	27.09
3/5/2014	0.107	1.23	1.34	16.8	26.25	3.16	27.59
3/10/2014	0.0796	0.97	1.05	17	26.8	4.19	27.85
3/11/2014	0.0984	1.11	1.21	16.6	28.8	4.82	30.01
3/12/2014	0.097	0.562	0.659	13.4	27.7	3.78	28.36
3/17/2014	0.102	0.508	0.61	15.8	22.6	3.88	23.21
3/18/2014	0.0928	0.417	0.51	15.9	22	3.87	22.51
3/19/2014	0.103	0.496	0.599	15.8	26.1	4.23	26.7
3/24/2014	0.13	0.464	0.594	15.9	24	3.24	24.59
3/25/2014	0.134	0.45	0.584	18.8	30.1	2.71	30.68
3/26/2014	0.123	0.362	0.485	16.7	26.5	3.03	26.99

Field's Point Effluent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/1/2014	<0.01	2.400	2.410	0.311	1.150	0.341	3.560
1/6/2014	0.140	5.210	5.350	1.930	2.590	1.170	7.940
1/7/2014	0.301	4.220	4.520	2.850	3.840	0.911	8.360
1/8/2014	0.235	3.900	4.140	1.540	2.380	0.852	6.520
1/13/2014	0.220	3.900	4.120	1.630	2.580	0.464	6.700
1/14/2014	0.150	4.950	5.100	2.000	2.800	0.801	7.900
1/15/2014	0.222	5.650	5.870	1.830	2.410	0.417	8.280
1/20/2014	0.170	3.880	3.880	1.380	2.220	0.809	6.100
1/21/2014	0.222	4.350	4.570	1.730	2.600	0.897	7.170
1/22/2014	0.245	5.520	5.770	1.910	2.710	0.724	8.480
1/27/2014	0.293	3.950	4.240	2.000	2.900	1.380	7.140
1/28/2014	0.338	3.960	4.300	2.630	3.690	1.170	7.990
1/29/2014	0.378	4.160	4.540	3.650	4.630	1.460	9.170
2/3/2014	0.355	3.400	3.760	2.700	3.820	1.640	7.580
2/5/2014	0.217	4.590	4.810	1.860	2.920	1.260	7.730
2/6/2014	0.226	4.600	4.830	1.750	2.560	1.560	7.390
2/10/2014	0.228	5.000	5.230	2.300	3.350	1.560	8.580
2/11/2014	0.131	5.010	5.140	1.260	2.460	1.720	7.600
2/12/2014	0.116	5.070	5.190	1.270	2.120	1.800	7.310
2/17/2014	0.079	3.530	3.610	0.474	1.570	0.595	5.180
2/18/2014	0.139	4.310	4.450	0.772	1.700	0.629	6.150
2/19/2014	0.262	5.550	5.810	2.560	3.500	0.991	9.310
2/24/2014	0.114	5.770	5.880	0.632	1.480	0.264	7.360
2/25/2014	0.268	5.220	5.490	1.270	2.020	0.268	7.510
2/26/2014	0.250	4.550	4.800	1.040	1.920	0.278	6.720
3/3/2014	0.342	4.440	4.780	3.750	4.660	1.030	9.440
3/4/2014	0.324	7.470	7.790	2.370	3.180	1.180	10.970
3/5/2014	0.265	8.460	8.720	1.930	2.800	1.200	11.520
3/10/2014	0.251	7.330	7.580	2.690	3.610	1.780	11.190
3/11/2014	0.168	4.210	4.380	1.300	2.680	1.770	7.060
3/12/2014	0.190	4.830	5.020	2.070	3.590	1.550	8.610
3/17/2014	0.261	4.210	4.470	2.400	3.400	1.440	7.870
3/18/2014	0.217	4.810	5.030	2.490	3.300	1.360	8.330
3/19/2014	0.163	5.480	5.640	1.950	2.600	1.350	8.240
3/24/2014	0.058	5.490	5.550	1.090	2.220	1.270	7.770
3/25/2014	0.149	6.410	6.560	2.480	3.900	1.360	10.460
3/26/2014	0.064	6.310	6.370	1.450	2.570	1.190	8.940

Table 13: Field's Point Influent and Effluent Nutrients



Field's Point Influent and Effluent Nutrients 2014

Field's Point Influent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/31/2014	0.141	2.06	2.2	5.37	8.71	1.23	10.91
4/1/2014	0.149	2.23	2.38	6.47	13.2	1.26	15.58
4/2/2014	0.145	1.74	1.88	7.23	14.2	1.92	16.08
4/7/2014	0.187	1.08	1.27	9.79	15.6	2.81	16.87
4/8/2014	0.0823	1.33	1.41	7.77	14.5	2.03	15.91
4/9/2014	0.106	1.28	1.39	9.18	18.2	4.05	19.59
4/14/2014	0.118	0.667	0.785	13.1	18.8	2.9	19.59
4/15/2014	0.0691	0.573	0.642	8.34	13.5	2.25	14.14
4/16/2014	0.0731	1.09	1.16	7.88	14.7	1.95	15.86
4/21/2014	0.139	0.682	0.821	12.9	18.4	2.89	19.22
4/22/2014	0.148	0.636	0.784	11.9	20.8	2.9	21.58
4/23/2014	0.118	0.554	0.672	10.4	14.8	2.56	15.47
4/28/2014	0.201	0.34	0.541	15.6	21.8	3.01	22.34
4/29/2014	0.191	0.319	0.51	16.9	24.6	2.99	25.11
4/30/2014	0.126	0.418	0.544	9.31	14.8	2.59	15.34
5/5/2014	0.284	0.619	0.903	13	19.5	2.66	20.4
5/6/2014	0.273	0.5	0.773	13.4	20.4	2.57	21.17
5/7/2014	0.239	0.392	0.631	13.9	23.2	2.83	23.83
5/12/2014	0.259	0.116	0.375	16.4	23.5	4.03	23.88
5/13/2014	0.233	<0.1	0.32	15.9	27.1	3.9	27.42
5/14/2014	0.202	<0.1	0.291	15.4	24.8	3.2	25.09
5/19/2014	0.328	0.188	0.516	16.3	25.9	3.28	26.42
5/20/2014	0.305	0.185	0.49	14.7	22.8	2.98	23.29
5/21/2014	0.282	0.142	0.424	15.1	23.7	3.49	24.12
5/26/2014	0.237	0.192	0.429	16.2	25.5	4	25.93
5/27/2014	0.245	0.264	0.509	20.3	28.3	4.93	28.81
5/28/2014	0.167	0.317	0.484	16.7	26.6	4.01	27.08
6/2/2014	0.0349	0.189	0.224	17	28.3	5.17	28.52
6/3/2014	0.0212	<0.1	<0.100	16.8	25.9	3.68	25.9
6/4/2014	0.0182	<0.1	<0.100	15.4	24.8	4.22	24.8
6/9/2014	0.025	<0.1	<0.100	15.4	25.9	4.03	25.9
6/10/2014	0.0548	0.137	0.192	9.5	16.7	2.29	16.89
6/11/2014	0.0469	<0.1	0.103	14.3	22.7	4.18	22.8
6/16/2014	0.031	<0.1	<0.100	14.7	26.9	3.58	26.9
6/17/2014	0.0513	<0.1	<0.100	16.7	25.2	3.19	25.2
6/18/2014	0.049	<0.1	<0.100	16.9	26	3.73	26.1
6/23/2014	0.105	<0.1	0.1	18.8	31.8	4.67	31.8

Field's Point Effluent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/31/2014	<0.01	8.040	8.040	0.819	1.640	0.468	9.680
4/1/2014	0.011	7.800	7.810	0.621	1.600	0.593	9.410
4/2/2014	0.039	7.510	7.550	1.150	2.080	0.448	9.630
4/7/2014	0.055	6.120	6.180	1.130	2.010	0.683	8.190
4/8/2014	0.020	6.470	6.490	0.609	1.460	0.569	7.950
4/9/2014	0.061	6.660	6.720	0.984	1.790	0.650	8.510
4/14/2014	0.361	3.640	4.000	1.520	2.240	0.519	6.240
4/15/2014	0.078	4.800	4.880	0.993	1.480	0.603	6.360
4/16/2014	0.215	6.140	6.360	1.460	1.980	0.423	8.340
4/21/2014	0.409	3.650	4.060	1.570	2.580	0.379	6.640
4/22/2014	0.226	3.010	3.240	1.090	1.830	0.507	5.070
4/23/2014	0.152	3.060	3.210	0.668	1.510	0.444	4.720
4/28/2014	0.442	3.030	3.470	2.500	3.060	0.616	6.530
4/29/2014	0.333	3.810	4.140	1.970	2.650	0.835	6.790
4/30/2014	0.034	4.650	4.680	0.352	1.070	0.943	5.750
5/5/2014	0.229	3.290	3.520	0.947	1.890	0.534	5.410
5/6/2014	0.206	2.730	2.940	0.900	1.800	0.554	4.740
5/7/2014	0.212	2.810	3.020	1.030	1.870	0.503	4.890
5/12/2014	0.081	2.890	2.970	0.825	1.750	1.050	4.720
5/13/2014	0.138	1.000	1.140	0.429	1.370	1.110	2.510
5/14/2014	0.104	1.290	1.390	0.195	1.090	0.920	2.480
5/19/2014	0.232	0.688	0.920	0.620	1.530	0.442	2.450
5/20/2014	<0.01	0.608	0.609	<0.1	0.841	0.465	1.450
5/21/2014	<0.01	0.809	0.812	<0.1	0.911	0.644	1.720
5/26/2014	0.083	0.806	0.888	0.804	1.750	0.873	2.640
5/27/2014	0.130	0.641	0.771	1.830	2.850	1.360	3.620
5/28/2014	0.053	0.946	0.998	0.571	1.630	1.170	2.630
6/2/2014	0.011	1.010	1.020	<0.1	1.180	1.580	2.200
6/3/2014	<0.01	1.410	1.410	<0.1	1.010	1.500	2.420
6/4/2014	<0.01	1.360	1.370	0.239	1.210	1.420	2.580
6/9/2014	0.025	2.090	2.110	1.430	2.440	2.040	4.550
6/10/2014	<0.01	2.530	2.530	<0.1	0.875	1.020	3.410
6/11/2014	<0.01	1.640	1.640	<0.1	0.895	0.984	2.540
6/16/2014	<0.01	3.090	3.090	0.179	1.100	1.360	4.190
6/17/2014	0.014	1.770	1.780	0.495	1.290	1.540	3.100
6/18/2014	<0.01	1.910	1.910	<0.1	0.753	1.180	2.700
6/23/2014	<0.01	3.558	3.560	<0.1	0.876	2.150	4.440

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2014

Field's Point Influent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
6/24/2014	0.144	<0.1	0.125	17.4	28.7	6.25	28.83
6/25/2014	0.201	<0.1	0.18	14.6	26.1	3.46	26.28
6/30/2014	0.305	<0.1	0.316	15.1	20.1	3.59	20.42
7/1/2014	0.352	<0.1	0.325	16.6	22.6	3.43	22.93
7/2/2014	0.397	<0.1	0.328	16	26.7	4.06	27.03
7/7/2014	0.155	<0.1	0.224	19.8	29.3	3.6	29.52
7/8/2014	0.0169	<0.1	<0.100	15.1	26	3.29	26
7/9/2014	0.0123	<0.1	<0.100	16.3	24.8	3.98	24.8
7/14/2014	0.0373	<0.1	<0.100	19.1	27.4	4.08	27.4
7/15/2014	0.0107	<0.1	<0.100	18.8	27.5	3.46	27.5
7/16/2014	0.0489	<0.1	0.115	9.29	15.2	2.33	15.32
7/21/2014	0.0356	<0.1	<0.100	18.3	27.6	4.07	27.6
7/22/2014	0.0481	<0.1	<0.100	18.1	27.4	3.32	27.4
7/23/2014	0.0817	<0.1	<0.100	16.9	26.8	3.6	26.8
7/28/2014	0.22	<0.1	0.206	16.5	25.5	3.87	25.71
7/29/2014	0.31	<0.1	0.335	16.7	26.3	2.96	26.64
7/30/2014	0.219	<0.1	0.203	17.7	27.5	4.16	27.7
8/4/2014	0.224	<0.1	0.283	22.1	31.1	4.5	31.38
8/5/2014	0.324	<0.1	0.335	18.7	26.6	4.39	26.94
8/6/2014	0.0896	<0.1	0.112	18.5	30.9	3.89	31.01
8/11/2014	0.0178	<0.1	<0.100	20.2	29.9	4.78	29.9
8/12/2014	0.0181	<0.1	<0.100	18.4	25.7	6.04	25.7
8/13/2014	0.0662	0.388	0.454	4.31	8.17	1.96	8.62
8/18/2014	0.0211	<0.1	<0.100	19.1	25.6	3.82	25.6
8/19/2014	0.0378	<0.1	<0.100	22.1	32.1	3.86	32.1
8/20/2014	0.0443	<0.1	<0.100	19.1	27.7	4.02	27.7
8/25/2014	0.161	<0.1	0.139	21.5	38.9	4.49	39.04
8/26/2014	0.191	<0.1	0.174	21.1	39.2	4.62	39.37
8/27/2014	0.179	<0.1	0.169	19.3	35.8	4.21	35.97
9/1/2014	0.393	<0.1	0.371	18.6	35.5	3.12	35.87
9/2/2014	0.414	<0.1	0.396	24.3	40.1	3.92	40.5
9/3/2014	0.502	<0.1	0.437	17.8	31	4.25	31.44
9/8/2014	0.0444	<0.1	<0.100	20.8	35.4	4.78	35.4
9/9/2014	0.0105	<0.1	<0.100	23.3	39.9	4.43	39.9
9/10/2014	0.0121	<0.1	<0.100	21.6	31.7	4.57	31.7
9/15/2014	0.0185	<0.1	<0.100	22.9	37.8	4.36	37.8
9/16/2014	0.0105	<0.1	<0.100	24.8	39.1	4.94	39.1

Field's Point Effluent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
6/24/2014	<0.01	2.800	2.800	<0.1	0.820	1.890	3.620
6/25/2014	<0.01	2.210	2.210	<0.1	0.784	1.950	2.990
6/30/2014	<0.01	2.740	2.750	<0.1	0.836	1.900	3.590
7/1/2014	<0.01	1.460	1.460	<0.1	0.721	1.870	2.180
7/2/2014	<0.01	2.060	2.070	<0.1	1.000	1.490	3.070
7/7/2014	0.021	2.730	2.750	0.698	2.180	1.540	4.930
7/8/2014	<0.01	2.440	2.440	<0.1	0.960	1.500	3.400
7/9/2014	<0.01	3.020	3.020	0.119	0.835	1.680	3.860
7/14/2014	0.042	2.340	2.380	4.110	3.090	1.570	5.470
7/15/2014	<0.01	2.170	2.170	0.448	1.410	1.390	3.580
7/16/2014	<0.01	3.300	3.300	0.121	0.812	0.882	4.110
7/21/2014	0.018	1.420	1.440	0.777	1.600	1.510	3.040
7/22/2014	<0.01	1.080	1.080	<0.1	0.958	0.584	2.040
7/23/2014	<0.01	1.480	1.480	0.116	0.938	1.020	2.420
7/28/2014	<0.01	1.580	1.590	0.272	1.080	1.780	2.670
7/29/2014	<0.01	1.350	1.350	<0.1	0.824	1.310	2.170
7/30/2014	<0.01	1.150	1.150	0.102	0.856	1.800	2.010
8/4/2014	0.053	1.790	1.840	1.530	2.540	2.330	4.380
8/5/2014	<0.01	2.000	2.000	0.104	0.890	1.350	2.890
8/6/2014	<0.01	1.880	1.880	0.104	0.900	1.820	2.780
8/11/2014	<0.01	1.450	1.450	<0.1	1.030	2.540	2.480
8/12/2014	0.020	1.930	1.950	0.884	1.920	1.880	3.870
8/13/2014	<0.01	3.440	3.440	<0.1	0.567	0.965	4.010
8/18/2014	<0.01	1.990	2.000	0.338	1.090	2.240	3.090
8/19/2014	0.021	1.810	1.830	0.625	1.460	2.100	3.290
8/20/2014	<0.01	1.930	1.930	<0.1	0.872	1.700	2.800
8/25/2014	<0.01	1.140	1.150	0.394	1.270	1.980	2.420
8/26/2014	<0.01	1.720	1.720	<0.1	1.400	1.710	3.120
8/27/2014	<0.01	1.940	1.940	<0.1	1.460	2.010	3.400
9/1/2014	0.050	0.837	0.887	1.500	3.010	2.110	3.900
9/2/2014	0.101	1.130	1.230	2.350	3.610	1.270	4.840
9/3/2014	<0.01	1.300	1.300	0.135	1.480	1.400	2.780
9/8/2014	0.028	0.854	0.881	0.711	1.780	1.790	2.660
9/9/2014	0.043	1.130	1.170	0.844	2.160	1.470	3.330
9/10/2014	<0.01	1.920	1.930	0.128	1.310	1.690	3.240
9/15/2014	<0.01	1.440	1.450	0.160	1.220	2.870	2.670
9/16/2014	0.097	2.220	2.320	1.660	2.930	0.917	5.250

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2014

Field's Point Influent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/17/2014	0.0183	<0.1	<0.100	23.9	35	4.4	35
9/22/2014	0.015	<0.1	<0.100	22.8	34	4.52	34
9/23/2014	0.0155	<0.1	<0.100	22.8	39.6	4.32	39.6
9/24/2014	0.0125	<0.1	<0.100	20.9	42.5	4.59	42.5
9/29/2014	0.0707	<0.1	<0.100	27.8	49.1	4.42	49.1
9/30/2014	0.0919	<0.1	0.102	26.4	43.8	4.04	43.902
10/1/2014	0.212	0.111	0.323	16.9	25.5	3.94	25.823
10/6/2014	0.0149	<0.1	<0.100	20.2	36.2	4.29	36.2
10/7/2014	<0.01	<0.1	<0.100	20.1	38.8	4.05	38.8
10/8/2014	0.0132	<0.1	<0.100	27.2	41.5	3.8	41.5
10/13/2014	0.0129	<0.1	<0.100	23.2	35.6	4.49	35.6
10/14/2014	0.0113	<0.1	<0.100	30	44.2	4.4	44.2
10/15/2014	0.0132	<0.1	<0.100	20.7	38.1	5.02	38.1

Field's Point Effluent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/17/2014	<0.01	2.450	2.450	0.152	1.320	2.180	3.770
9/22/2014	<0.01	1.760	1.770	0.143	1.190	1.860	2.960
9/23/2014	<0.01	1.600	1.600	<0.1	1.120	1.750	2.720
9/24/2014	0.070	1.640	1.710	2.150	3.290	1.900	5.000
9/29/2014	0.099	0.766	0.865	5.650	7.110	2.930	7.975
9/30/2014	0.049	1.810	1.860	0.973	2.280	1.420	4.140
10/1/2014	0.024	4.300	4.320	0.815	1.890	1.590	6.210
10/6/2014	<0.01	1.200	1.200	<0.1	1.150	1.560	2.350
10/7/2014	<0.01	0.864	0.864	0.147	1.180	1.640	2.044
10/8/2014	<0.01	3.060	3.060	0.228	1.280	2.160	4.340
10/13/2014	<0.01	0.752	0.752	0.303	1.330	2.300	2.082
10/14/2014	0.062	1.490	1.550	1.830	2.660	1.710	4.210
10/15/2014	<0.01	1.030	1.030	0.249	1.290	1.720	2.320

Table 13: Field's Point Influent and Effluent Nutrients

Field's Point Influent and Effluent Nutrients 2014

Field's Point Influent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
10/20/2014	0.0105	<0.1	<0.100	28.4	34.1	4.59	34.1
10/21/2014	0.0118	<0.1	<0.100	22	34.6	3.74	34.6
10/22/2014	0.0161	0.1309	0.147	15.5	25.1	3.35	25.247
10/27/2014	0.0385	<0.1	<0.100	24.3	37	4.51	37
10/28/2014	0.0437	<0.1	<0.100	23.8	37.6	4.4	37.6
10/29/2014	0.043	<0.1	<0.100	23.1	33.8	4.33	33.8
11/3/2014	0.0656	<0.1	0.128	25.5	40.8	5.4	40.928
11/4/2014	0.0718	<0.1	0.108	22.6	27.6	4.01	27.708
11/5/2014	0.12	<0.1	0.152	21.1	32.9	4.14	33.052
11/10/2014	0.133	<0.1	0.187	31	39	5.4	39.187
11/11/2014	0.121	<0.1	0.175	24.1	35.9	4	36.075
11/12/2014	0.0849	<0.1	0.168	24.6	29.8	4.45	29.968
11/17/2014	0.0919	0.4141	0.506	8.76	13.4	2.19	13.906
11/18/2014	0.112	0.357	0.469	12	18.1	2.37	18.569
11/19/2014	0.0612	<0.1	0.133	14	17.9	2.48	18.033
11/24/2014	0.0661	0.1909	0.257	14.2	15.6	2.37	15.857
11/25/2014	0.0428	<0.1	0.104	18.8	24.1	2.52	24.204
11/26/2014	0.0544	0.3386	0.393	10.5	13.6	1.83	13.993
12/1/2014	0.0252	<0.1	<0.100	28	31.4	3.77	31.4
12/2/2014	0.0441	<0.1	0.101	24	32.5	3.77	32.601
12/3/2014	0.0831	<0.1	0.174	20.9	27.7	3.23	27.874
12/8/2014	0.0715	0.1245	0.196	19.5	24.2	2.95	24.296
12/9/2014	0.0508	1.0492	1.1	7.23	8.92	0.996	10.01
12/10/2014	0.0764	1.7136	1.79	9.48	13.5	1.47	15.29
12/15/2014	0.188	0.445	0.633	20.1	29.5	3.46	30.133
12/16/2014	0.189	0.353	0.542	19.2	24	2.41	24.542
12/17/2014	0.158	0.384	0.542	15.9	22	2.46	22.542
12/22/2014	0.205	0.125	0.33	22.9	31.2	3.17	31.53
12/23/2014	0.211	0.247	0.458	19.1	25	2.73	25.458
12/24/2014	0.234	0.303	0.537	13.4	19.4	2.68	19.937
12/29/2014	0.265	<0.1	0.334	24.7	25.9	3.39	26.234
12/30/2014	0.238	0.109	0.347	21.4	22.7	2.91	23.047
12/31/2014	0.185	<0.1	0.219	21.2	28.7	3.47	28.919

Field's Point Effluent Nutrients

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	NitrateNitrite N-NO <sub>3</sub> NO <sub>2</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
10/20/2014	0.015	1.460	1.480	0.510	1.560	2.350	3.040
10/21/2014	<0.01	1.270	1.270	<0.1	1.110	1.700	2.380
10/22/2014	0.019	2.890	2.910	1.200	2.250	1.890	5.160
10/27/2014	0.078	1.492	1.570	3.080	3.980	2.260	5.550
10/28/2014	0.041	1.839	1.880	1.300	2.250	2.020	4.130
10/29/2014	<0.01	1.690	1.690	<0.1	1.220	2.450	2.910
11/3/2014	0.037	2.213	2.250	0.220	1.320	2.430	3.570
11/4/2014	<0.01	1.360	1.360	0.364	1.390	2.520	2.750
11/5/2014	0.045	2.465	2.510	1.060	2.040	1.970	4.550
11/10/2014	0.087	1.573	1.660	2.650	3.550	2.120	5.210
11/11/2014	0.041	1.440	1.480	1.140	2.250	2.240	3.730
11/12/2014	0.065	1.925	1.990	1.820	2.640	1.920	4.630
11/17/2014	0.055	5.265	5.320	1.280	2.020	1.140	7.340
11/18/2014	0.190	4.780	4.970	2.390	3.300	1.260	8.270
11/19/2014	0.328	2.752	3.080	2.840	3.830	1.180	6.910
11/24/2014	0.166	4.774	4.940	2.200	2.740	0.898	7.680
11/25/2014	0.263	4.077	4.340	5.260	6.120	0.912	10.460
11/26/2014	0.114	5.286	5.400	3.170	4.120	0.995	9.520
12/1/2014	0.154	1.936	2.090	8.170	9.360	1.240	11.450
12/2/2014	0.177	3.893	4.070	7.250	8.520	1.100	12.590
12/3/2014	0.198	4.832	5.030	4.840	5.710	1.420	10.740
12/8/2014	0.281	2.869	3.150	6.050	6.880	1.240	10.030
12/9/2014	0.075	5.475	5.550	2.020	3.400	0.890	8.950
12/10/2014	0.157	6.023	6.180	2.490	3.500	0.567	9.680
12/15/2014	0.395	3.205	3.600	6.930	8.060	0.608	11.660
12/16/2014	0.273	4.277	4.550	5.810	6.990	0.679	11.540
12/17/2014	0.292	4.208	4.500	3.650	4.780	0.680	9.280
12/22/2014	0.250	4.190	4.440	6.250	7.900	1.510	12.340
12/23/2014	0.295	4.255	4.550	5.490	7.020	1.260	11.570
12/24/2014	0.077	5.433	5.510	1.250	2.520	0.974	8.030
12/29/2014	0.210	5.300	5.510	4.620	5.590	1.610	11.100
12/30/2014	0.201	5.429	5.630	4.780	5.880	1.510	11.510
12/31/2014	0.200	4.550	4.750	3.540	4.580	1.330	9.330

Table 13: Field's Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2014

**Bucklin Point Influent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/1/2014	0.354	0.501	14.60	29.17	4.84	30.03
1/6/2014	0.158	0.598	10.00	16.20	3.00	16.96
1/7/2014	0.189	1.380	14.60	23.30	3.55	24.87
1/8/2014	0.253	0.947	17.20	28.60	4.00	29.80
1/13/2014	0.262	1.210	16.00	27.20	4.41	28.67
1/14/2014	0.520	0.301	15.80	21.00	4.82	21.82
1/15/2014	0.148	1.220	10.20	15.00	3.43	16.37
1/20/2014	0.290	1.160	15.30	23.40	4.42	24.85
1/21/2014	0.242	1.350	14.80	19.00	5.18	20.35
1/22/2014	0.209	1.080	15.70	16.10	5.04	17.39
1/27/2014	0.220	0.189	16.60	27.00	3.28	27.41
1/28/2014	0.313	0.246	18.40	30.30	6.73	30.86
1/29/2014	0.233	0.153	18.90	31.50	4.18	31.89
2/3/2014	0.170	<0.1	19.50	32.20	3.64	32.35
2/4/2014	0.045	0.101	19.60	33.00	4.62	33.15
2/5/2014	0.180	0.290	17.80	30.10	4.23	30.57
2/10/2014	0.233	<0.1	19.40	32.70	4.15	32.96
2/11/2014	0.195	<0.1	20.80	34.30	4.53	34.52
2/12/2014	0.140	0.216	18.90	31.70	4.53	32.06
2/17/2014	0.166	0.609	18.30	25.80	3.82	26.58
2/18/2014	0.214	0.629	17.60	25.80	4.29	26.64
2/19/2014	0.177	0.478	17.60	27.00	3.83	27.66
2/24/2014	0.161	0.949	13.30	20.10	2.83	21.21
2/25/2014	0.204	1.100	13.80	22.20	4.06	23.50
2/26/2014	0.170	0.840	14.40	21.40	3.15	22.41
3/3/2014	0.197	0.361	17.20	26.50	2.93	27.06
3/4/2014	0.228	0.489	17.00	27.20	3.43	27.92
3/5/2014	0.194	0.946	16.50	29.00	3.69	30.14
3/10/2014	0.051	0.882	17.60	28.60	3.88	29.53
3/11/2014	0.285	0.714	17.30	25.30	5.99	26.30
3/12/2014	0.334	<0.1	16.70	30.90	4.69	31.28
3/17/2014	0.277	0.362	16.30	24.70	3.38	25.34

**Bucklin Point Effluent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
1/1/2014	0.013	4.950	<0.1	0.94	2.20	5.90
1/6/2014	0.035	3.950	0.61	1.99	1.62	5.98
1/7/2014	0.042	6.080	0.28	1.02	1.63	7.14
1/8/2014	0.038	5.710	0.24	1.22	1.86	6.97
1/13/2014	0.047	5.470	0.24	1.10	1.54	6.62
1/14/2014	0.040	3.480	0.75	1.52	1.34	5.04
1/15/2014	0.048	4.750	0.56	1.36	1.40	6.16
1/20/2014	0.052	5.490	0.39	1.28	2.32	6.82
1/21/2014	0.035	4.870	0.18	1.10	2.60	6.00
1/22/2014	0.040	5.110	0.71	1.28	2.70	6.43
1/27/2014	0.044	5.890	0.75	1.78	2.34	7.71
1/28/2014	0.037	5.690	0.38	1.55	2.31	7.28
1/29/2014	0.039	5.840	0.56	1.74	2.39	7.62
2/3/2014	0.038	6.000	0.36	1.44	2.40	7.48
2/4/2014	0.038	5.130	0.58	1.68	2.43	6.85
2/5/2014	0.035	5.740	0.26	1.32	2.34	7.10
2/10/2014	0.043	7.190	0.49	1.92	2.80	9.15
2/11/2014	0.040	6.810	0.40	1.64	2.67	8.49
2/12/2014	0.049	2.600	3.69	5.40	3.11	8.05
2/17/2014	0.082	5.440	1.02	1.97	1.97	7.49
2/18/2014	0.072	4.380	0.87	2.12	2.13	6.57
2/19/2014	0.068	3.930	1.82	3.57	2.39	7.57
2/24/2014	0.096	2.600	0.76	1.79	1.07	4.49
2/25/2014	0.085	2.150	0.88	1.98	1.27	4.21
2/26/2014	0.088	2.850	1.00	2.20	1.56	5.14
3/3/2014	0.070	4.930	0.79	2.24	2.24	7.24
3/4/2014	0.062	4.750	0.70	2.05	2.36	6.86
3/5/2014	0.059	6.290	0.37	1.78	2.23	8.13
3/10/2014	0.058	8.160	0.34	1.66	2.47	9.88
3/11/2014	0.043	8.220	0.19	1.35	3.15	9.61
3/12/2014	0.073	3.760	0.75	2.77	2.95	6.60
3/17/2014	0.036	3.700	0.15	1.34	1.52	5.08

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2014

**Bucklin Point Influent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/18/2014	0.165	0.574	29.80	38.60	3.53	39.34
3/19/2014	0.334	<0.1	17.30	26.90	3.66	27.18
3/24/2014	0.070	0.513	17.30	26.00	2.98	26.58
3/25/2014	0.140	0.329	19.10	31.00	3.87	31.47
3/26/2014	0.162	0.317	16.90	27.30	3.43	27.78
3/31/2014	0.134	1.470	5.90	9.12	1.84	10.72
4/1/2014	0.145	2.020	6.80	11.90	1.59	14.06
4/2/2014	0.203	2.200	8.98	15.00	2.21	17.40
4/7/2014	0.264	1.180	12.40	16.20	2.03	17.64
4/8/2014	0.194	1.280	7.90	11.90	2.49	13.37
4/9/2014	0.272	1.460	10.60	18.20	2.46	19.93
4/14/2014	0.243	0.623	13.90	21.60	3.02	22.47
4/15/2014	0.239	1.020	12.30	19.30	3.22	20.56
4/16/2014	0.114	0.776	5.38	9.69	1.49	10.58
4/21/2014	0.212	0.798	13.70	22.60	2.59	23.61
4/22/2014	0.182	0.958	13.40	24.00	3.19	25.14
4/23/2014	0.135	0.680	11.90	15.50	3.39	16.32
4/28/2014	0.121	0.401	14.70	23.80	3.44	24.32
4/29/2014	0.122	0.807	14.40	25.00	3.40	25.93
4/30/2014	0.178	0.256	15.10	26.40	3.80	26.83
5/5/2014	0.166	0.676	13.60	21.40	2.50	22.24
5/6/2014	0.285	0.460	14.50	20.20	2.90	20.95
5/7/2014	0.179	0.409	14.20	25.50	2.95	26.09
5/12/2014	0.141	0.192	16.20	24.20	3.23	24.53
5/13/2014	0.222	0.212	15.30	22.90	3.67	23.33
5/14/2014	0.153	0.281	15.80	26.70	3.94	27.13
5/19/2014	0.312	0.363	14.30	22.50	3.47	23.18
5/20/2014	0.448	<0.1	15.00	18.00	4.43	18.48
5/21/2014	0.287	<0.1	14.50	23.90	3.92	24.24
5/26/2014	0.097	<0.1	17.40	25.40	3.67	25.40
5/27/2014	0.036	<0.1	16.80	25.10	3.65	25.24
5/28/2014	0.061	0.128	16.30	26.60	4.51	26.79
6/2/2014	0.129	<0.1	18.40	26.30	3.19	26.30
6/3/2014	0.045	0.207	17.50	31.00	5.19	31.25
6/4/2014	0.165	<0.1	16.60	28.50	4.83	28.69
6/9/2014	0.049	<0.1	18.90	30.00	3.59	30.00

**Bucklin Point Effluent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
3/18/2014	0.044	4.910	0.19	1.51	1.94	6.46
3/19/2014	0.088	4.400	0.52	1.96	2.37	6.45
3/24/2014	0.044	4.570	<0.1	2.13	3.76	6.74
3/25/2014	0.024	4.670	<0.1	1.49	1.97	6.18
3/26/2014	0.077	5.110	0.85	2.49	2.35	7.68
3/31/2014	0.198	3.250	1.04	2.45	1.01	5.90
4/1/2014	0.231	2.860	1.74	3.60	1.11	6.69
4/2/2014	0.164	2.530	0.95	2.29	1.01	4.98
4/7/2014	0.077	0.521	4.17	6.27	1.89	6.87
4/8/2014	0.155	1.540	0.20	2.15	1.01	3.85
4/9/2014	0.143	1.300	1.01	1.88	0.69	3.32
4/14/2014	0.113	2.770	1.06	2.80	2.30	5.68
4/15/2014	0.093	2.240	0.57	2.82	1.99	5.15
4/16/2014	0.106	1.400	3.35	4.56	1.21	6.07
4/21/2014	0.124	2.440	2.88	4.29	1.87	6.85
4/22/2014	0.142	1.290	2.95	4.23	1.79	5.66
4/23/2014	0.107	0.797	3.51	4.57	1.79	5.47
4/28/2014	0.144	3.000	2.55	4.12	1.95	7.26
4/29/2014	0.126	2.920	2.11	3.05	1.96	6.10
4/30/2014	0.112	2.130	2.78	4.11	1.97	6.35
5/5/2014	0.128	4.030	1.05	2.53	1.64	6.69
5/6/2014	0.082	4.250	0.52	2.08	1.61	6.41
5/7/2014	0.094	4.040	1.88	3.07	1.92	7.20
5/12/2014	0.051	3.450	1.02	2.20	1.96	5.70
5/13/2014	0.069	2.960	0.90	2.16	2.32	5.19
5/14/2014	0.041	3.280	0.23	1.43	2.31	4.75
5/19/2014	0.033	2.510	0.16	1.39	1.43	3.93
5/20/2014	0.036	1.850	0.19	1.55	1.97	3.44
5/21/2014	0.051	1.640	1.30	2.85	2.31	4.54
5/26/2014	0.036	3.500	0.31	1.86	2.02	5.40
5/27/2014	0.027	2.890	<0.1	1.55	2.20	4.47
5/28/2014	0.032	3.090	0.16	1.92	2.42	5.04
6/2/2014	0.041	2.080	0.46	1.80	1.84	3.92
6/3/2014	0.045	2.890	0.54	2.11	2.40	5.05
6/4/2014	0.035	3.110	0.19	1.68	2.65	4.82
6/9/2014	0.028	3.930	0.46	1.85	2.33	5.81

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2014

**Bucklin Point Influent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
6/10/2014	0.172	0.659	14.80	25.10	3.68	25.93
6/11/2014	0.223	0.379	15.60	24.50	3.56	25.10
6/16/2014	0.469	<0.1	16.70	28.10	3.13	28.45
6/17/2014	0.032	0.126	18.20	26.60	4.58	26.76
6/18/2014	0.038	0.149	17.90	29.10	4.00	29.30
6/23/2014	0.560	<0.1	19.00	32.30	4.03	32.82
6/24/2014	0.150	<0.1	20.20	34.30	4.74	34.30
6/25/2014	0.332	<0.1	18.30	31.00	4.94	31.17
6/30/2014	0.234	<0.1	19.00	26.90	3.67	27.04
7/1/2014	0.412	0.182	18.80	29.20	5.44	29.79
7/2/2014	0.330	<0.1	18.60	31.60	4.60	31.81
7/7/2014	0.772	<0.1	16.90	28.60	3.43	29.24
7/8/2014	0.652	<0.1	16.70	29.90	5.67	30.53
7/9/2014	0.614	<0.1	17.00	28.30	5.01	28.95
7/14/2014	0.331	<0.1	20.00	32.10	4.47	32.34
7/15/2014	0.034	0.232	18.50	31.30	5.03	31.57
7/16/2014	0.025	<0.1	14.90	26.90	4.00	26.90
7/21/2014	0.024	<0.1	20.50	28.90	4.00	28.90
7/22/2014	0.024	<0.1	20.10	30.50	4.50	30.50
7/23/2014	0.036	<0.1	20.30	32.30	3.85	32.30
7/28/2014	0.267	<0.1	19.30	31.20	3.91	31.40
7/29/2014	0.452	<0.1	20.50	24.60	4.20	24.97
7/30/2014	0.332	<0.1	20.30	32.30	4.70	32.49
8/4/2014	0.402	<0.1	20.80	33.70	4.61	34.05
8/5/2014	0.809	<0.1	19.40	31.40	5.03	32.15
8/6/2014	0.451	<0.1	20.10	31.70	5.49	31.99
8/11/2014	0.023	<0.1	22.40	33.60	4.28	33.60
8/12/2014	0.026	<0.1	22.30	29.40	5.47	29.40
8/13/2014	0.039	<0.1	14.70	23.50	4.94	23.60
8/18/2014	0.039	<0.1	22.40	33.50	4.00	33.50
8/19/2014	0.069	<0.1	21.10	33.40	4.63	33.40
8/20/2014	0.098	<0.1	21.00	35.00	4.76	35.00
8/25/2014	0.035	<0.1	20.70	38.60	4.52	38.60
8/26/2014	0.311	<0.1	22.40	42.10	6.03	42.41
8/27/2014	0.220	<0.1	22.90	42.60	6.12	42.60
9/1/2014	0.529	<0.1	18.00	28.90	2.90	29.52

**Bucklin Point Effluent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
6/10/2014	0.029	1.940	0.31	1.63	1.86	3.60
6/11/2014	0.024	2.280	<0.1	1.37	1.49	3.67
6/16/2014	0.017	3.550	<0.1	1.18	1.81	4.75
6/17/2014	0.012	4.570	<0.1	1.24	2.28	5.82
6/18/2014	0.012	4.610	<0.1	0.94	2.57	5.60
6/23/2014	0.046	2.144	<0.1	1.02	2.50	3.21
6/24/2014	<0.01	1.571	<0.1	1.13	2.15	2.71
6/25/2014	0.013	2.670	<0.1	1.16	2.43	3.84
6/30/2014	0.027	1.420	1.58	2.59	2.82	4.04
7/1/2014	0.033	1.520	0.77	1.74	2.11	3.29
7/2/2014	0.030	3.450	0.27	1.34	2.39	4.82
7/7/2014	0.014	2.230	<0.1	1.07	1.85	3.31
7/8/2014	0.014	2.690	<0.1	1.06	2.51	3.76
7/9/2014	0.011	2.630	<0.1	0.86	3.09	3.50
7/14/2014	0.017	2.550	<0.1	1.26	2.48	3.83
7/15/2014	0.013	2.700	<0.1	1.04	2.80	3.75
7/16/2014	0.014	1.890	0.17	1.40	2.48	3.30
7/21/2014	0.023	2.040	0.65	1.60	2.98	3.66
7/22/2014	0.015	1.590	<0.1	1.09	2.24	2.69
7/23/2014	0.015	1.690	<0.1	1.05	2.16	2.75
7/28/2014	0.016	1.370	<0.1	1.03	2.25	2.42
7/29/2014	<0.01	1.510	<0.1	0.96	1.85	2.48
7/30/2014	0.012	1.970	<0.1	0.95	2.72	2.93
8/4/2014	0.019	1.280	0.14	1.18	1.89	2.48
8/5/2014	0.022	2.630	<0.1	1.13	1.95	3.78
8/6/2014	0.011	1.550	<0.1	1.11	2.39	2.67
8/11/2014	<0.01	1.500	<0.1	0.81	2.43	2.32
8/12/2014	0.013	1.920	<0.1	0.80	2.19	2.73
8/13/2014	0.011	1.870	0.19	1.56	2.54	3.44
8/18/2014	0.015	2.080	<0.1	0.83	2.11	2.93
8/19/2014	0.013	3.310	<0.1	0.80	2.33	4.12
8/20/2014	0.011	2.070	<0.1	0.98	2.57	3.06
8/25/2014	<0.01	1.830	<0.1	1.09	2.35	2.93
8/26/2014	0.011	1.900	<0.1	1.18	2.86	3.09
8/27/2014	<0.01	2.140	<0.1	1.48	2.10	3.62
9/1/2014	0.026	0.763	0.64	1.88	2.05	2.67

Table 14: Bucklin Point Influent and Effluent Nutrients

Bucklin Point Influent and Effluent Nutrients 2014

**Bucklin Point Influent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/2/2014	0.179	<0.1	21.10	35.20	5.21	35.35
9/3/2014	0.165	<0.1	21.30	39.20	5.50	39.35
9/8/2014	0.029	<0.1	22.50	35.30	4.15	35.30
9/9/2014	0.037	0.166	21.90	42.00	6.31	42.20
9/10/2014	0.056	<0.1	21.70	40.10	5.94	40.10
9/15/2014	0.026	<0.1	25.90	37.90	4.21	37.90
9/16/2014	0.033	0.233	24.10	42.10	4.87	42.37
9/17/2014	0.050	0.100	24.80	42.80	4.72	42.95
9/22/2014	0.026	<0.1	25.20	42.10	3.64	42.10
9/23/2014	0.021	0.349	22.80	42.10	5.51	42.47
9/24/2014	0.024	<0.1	23.40	35.10	6.62	35.10
9/29/2014	0.026	<0.1	28.90	44.60	4.84	44.60
9/30/2014	0.026	<0.1	30.10	46.60	4.91	46.60
10/1/2014	0.036	0.603	21.80	32.70	4.68	33.34
10/6/2014	0.033	<0.1	22.70	33.50	7.60	33.50
10/7/2014	0.035	0.311	24.40	35.70	4.38	36.05
10/8/2014	0.061	<0.1	23.70	37.80	4.31	37.94
10/13/2014	0.037	<0.1	24.80	31.70	4.44	31.70
10/14/2014	0.236	0.650	22.70	32.80	4.65	33.69
10/15/2014	0.234	<0.1	24.40	41.00	5.02	41.27
10/20/2014	0.156	<0.1	23.80	34.70	4.34	34.82
10/21/2014	0.255	0.181	24.30	35.80	5.57	36.24
10/22/2014	0.616	<0.1	20.20	33.30	4.76	33.78
10/27/2014	0.082	<0.1	24.00	36.40	3.69	36.40
10/28/2014	0.162	0.248	24.20	39.70	4.69	40.11
10/29/2014	0.294	<0.1	23.60	37.70	4.84	37.93
11/3/2014	0.472	<0.1	22.40	33.50	3.24	33.85
11/4/2014	0.334	0.330	22.30	39.40	5.41	40.06
11/5/2014	1.060	<0.1	21.70	36.00	5.92	37.04
11/10/2014	0.365	<0.1	23.80	35.70	3.80	36.01
11/11/2014	0.408	<0.1	24.30	40.00	10.00	40.50
11/12/2014	0.443	<0.1	24.50	41.00	5.75	41.40
11/17/2014	0.087	<0.1	15.90	26.10	4.16	26.28
11/18/2014	0.473	0.537	14.10	16.90	3.23	17.91
11/19/2014	0.668	<0.1	21.30	26.90	4.90	27.33
11/24/2014	0.318	0.202	14.50	19.90	3.08	20.42

**Bucklin Point Effluent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
9/2/2014	0.011	1.260	<0.1	1.79	1.93	3.06
9/3/2014	0.011	3.550	<0.1	1.33	2.96	4.89
9/8/2014	0.018	1.290	<0.1	1.27	1.63	2.58
9/9/2014	0.013	1.810	<0.1	1.17	2.17	2.99
9/10/2014	0.026	3.010	0.16	1.44	3.08	4.48
9/15/2014	0.015	2.160	<0.1	1.24	1.84	3.41
9/16/2014	0.042	3.250	0.20	1.65	1.91	4.94
9/17/2014	0.019	2.320	<0.1	1.33	2.50	3.67
9/22/2014	0.036	0.994	0.24	1.46	2.13	2.49
9/23/2014	0.038	1.380	0.42	1.73	3.04	3.15
9/24/2014	0.036	0.890	1.48	2.89	3.12	3.82
9/29/2014	0.049	1.860	0.51	2.11	2.91	4.02
9/30/2014	0.031	1.910	0.15	2.22	3.00	4.16
10/1/2014	0.025	1.110	1.00	3.16	2.83	4.30
10/6/2014	0.024	1.590	<0.1	1.44	3.15	3.05
10/7/2014	0.028	2.250	<0.1	1.73	3.82	4.01
10/8/2014	0.047	2.660	0.20	1.77	3.91	4.48
10/13/2014	0.057	1.800	0.67	2.34	2.76	4.20
10/14/2014	0.056	2.010	0.18	1.84	3.27	3.91
10/15/2014	0.055	2.420	0.28	1.73	3.64	4.20
10/20/2014	0.055	1.795	0.52	2.21	3.07	4.06
10/21/2014	0.052	1.378	1.40	3.24	3.04	4.67
10/22/2014	0.035	1.035	1.90	3.92	2.89	4.99
10/27/2014	0.056	1.744	1.28	3.16	2.40	4.96
10/28/2014	0.063	2.687	0.99	2.76	2.59	5.51
10/29/2014	0.076	4.474	1.15	3.29	3.51	7.84
11/3/2014	0.091	2.269	3.13	6.18	2.61	8.54
11/4/2014	0.137	4.453	2.66	5.49	3.51	10.08
11/5/2014	0.085	5.165	0.62	2.71	3.95	7.96
11/10/2014	0.100	2.920	1.16	2.83	3.46	5.85
11/11/2014	0.080	3.061	0.61	2.33	5.23	5.47
11/12/2014	0.076	2.204	1.85	3.56	5.36	5.84
11/17/2014	0.039	2.541	0.65	16.50	5.51	19.08
11/18/2014	0.101	2.289	2.10	3.15	1.80	5.54
11/19/2014	0.074	1.866	0.61	2.10	1.84	4.04
11/24/2014	0.016	2.724	<0.1	1.25	1.51	3.99

Table 14: Bucklin Point Influent and Effluent Nutrients



Bucklin Point Influent and Effluent Nutrients 2014

**Bucklin Point Influent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
11/25/2014	0.594	<0.1	19.00	26.90	3.75	27.56
11/26/2014	0.513	<0.1	17.80	20.90	2.82	21.31
12/1/2014	0.471	<0.1	19.90	27.50	3.55	27.95
12/2/2014	0.148	0.229	19.60	31.90	4.78	32.28
12/3/2014	0.309	0.400	17.40	21.00	2.91	21.71
12/8/2014	0.337	0.843	17.70	23.60	2.78	24.78
12/9/2014	0.250	0.750	12.80	16.10	2.44	17.10
12/10/2014	0.211	1.509	9.06	13.20	1.83	14.92
12/15/2014	1.620	0.190	15.90	20.30	2.87	22.11
12/16/2014	0.182	0.462	16.00	20.80	2.64	21.44
12/17/2014	0.124	0.426	13.80	17.50	2.39	18.05
12/22/2014	0.107	<0.1	17.50	22.20	3.46	22.36
12/23/2014	0.170	0.385	15.50	24.20	3.95	24.76
12/24/2014	0.189	0.112	15.60	18.30	3.82	18.60
12/29/2014	0.263	<0.1	16.50	26.80	3.66	27.11
12/30/2014	0.182	0.207	15.40	25.40	3.83	25.79
12/31/2014	0.240	<0.1	17.20	23.80	3.40	24.01

**Bucklin Point Effluent Nutrients**

Date	Nitrite N-NO <sub>2</sub> ppm	Nitrate N-NO <sub>3</sub> ppm	Ammonia N-NH <sub>3</sub> ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
11/25/2014	0.039	2.131	0.68	1.69	1.80	3.86
11/26/2014	0.018	2.432	0.83	5.78	2.52	8.23
12/1/2014	0.028	1.622	0.10	1.08	1.23	2.73
12/2/2014	0.024	2.586	0.14	1.29	2.05	3.90
12/3/2014	0.037	2.383	0.71	1.58	2.44	4.00
12/8/2014	0.044	2.836	0.53	1.48	1.55	4.36
12/9/2014	0.025	3.045	0.35	2.68	1.68	5.75
12/10/2014	0.061	2.559	1.38	3.93	1.58	6.55
12/15/2014	0.019	2.501	<0.1	1.14	1.45	3.66
12/16/2014	0.040	3.780	0.38	3.07	2.67	6.89
12/17/2014	0.019	2.461	<0.1	1.37	1.48	3.85
12/22/2014	0.022	3.548	0.11	1.30	1.97	4.87
12/23/2014	0.029	3.521	0.14	1.67	2.40	5.22
12/24/2014	0.034	1.346	0.56	4.55	2.80	5.93
12/29/2014	0.019	4.451	<0.1	1.04	1.83	5.51
12/30/2014	0.023	4.107	0.17	1.04	2.16	5.17
12/31/2014	0.013	4.057	<0.1	1.13	2.45	5.20

Table 14: Bucklin Point Influent and Effluent Nutrients

Oil and Grease Data 2014

**Field's Point Oil & Grease 2014**

<b>Date</b>	<b>Influent Flow</b>	<b>Effluent Flow</b>	<b>Influent Average</b>	<b>Effluent Average</b>
	<b>MGD</b>	<b>MGD</b>	<b>ppm</b>	<b>ppm</b>
<b>1/7/2014</b>	50.42	50.42	21.26	<4.0
<b>2/4/2014</b>	37.1	37.10	23.38	<4.0
<b>3/4/2014</b>	41.56	41.56	16.53	<4.0
<b>4/8/2014</b>	68.06	61.09	11.45	<4.0
<b>5/6/2014</b>	46.36	46.36	15.95	<4.0
<b>6/3/2014</b>	38.31	38.31	16.53	<4.0
<b>7/8/2014</b>	34.97	34.97	21.04	<4.0
<b>8/5/2014</b>	32.86	32.86	20.92	<4.0
<b>9/9/2014</b>	32.30	32.30	26.25	<4.0
<b>10/7/2014</b>	30.20	30.20	21.94	<4.0
<b>11/18/2014</b>	57.03	57.03	11.47	<4.0
<b>12/2/2014</b>	41.04	41.04	15.10	<4.0

**Bucklin Point Oil & Grease 2014**

<b>Date</b>	<b>Influent Flow</b>	<b>Effluent Flow</b>	<b>Influent Average</b>	<b>Effluent Average</b>
	<b>MGD</b>	<b>MGD</b>	<b>ppm</b>	<b>ppm</b>
<b>1/7/2014</b>	20.09	20.09	20.54	<4.0
<b>2/4/2014</b>	19.95	19.95	29.45	<4.0
<b>3/4/2014</b>	21.70	21.70	23.94	<4.0
<b>4/8/2014</b>	48.36	41.31	16.66	<4.0
<b>5/6/2014</b>	23.69	23.69	23.59	<4.0
<b>6/3/2014</b>	19.63	19.63	34.94	<4.0
<b>7/8/2014</b>	16.14	16.14	33.49	<4.0
<b>8/5/2014</b>	14.28	14.28	36.72	<4.0
<b>9/9/2014</b>	14.42	14.42	22.69	<4.0
<b>10/7/2014</b>	15.34	15.34	39.89	<4.0
<b>11/18/2014</b>	16.04	16.04	17.92	<4.0
<b>12/2/2014</b>	17.94	17.94	22.21	<4.0

Table 15: Bucklin Point and Field's Point Oil and Grease Data

Field's Point Dissolved Metals 2014

all results in ppb

MDL = method detection limit

Date	Cd		Cr		Cu		Pb		Ni		Ag		Zn		Al		Fe	
	Cd	MDL	Cr	Cr MDL	Cu	MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	MDL	Zn	Zn MDL	Al	MDL	Fe	Fe MDL
1/7/2014	<b>0.04</b>	0.04	1.08	0.30	2.07	0.30	0.32	0.30	18.26	0.30	<b>0.02</b>	0.02	25.86	4.00	5.08	3.00	94.00	2.00
2/6/2014	0.05	0.04	1.07	0.30	2.20	0.30	0.31	0.30	14.27	0.30	0.03	0.02	28.58	4.00	13.78	3.00	88.44	2.00
3/4/2014	0.05	0.04	1.19	0.30	2.34	0.30	<b>0.30</b>	0.30	14.30	0.30	0.03	0.02	25.60	4.00	3.13	3.00	75.50	2.00
4/8/2014	0.06	0.04	0.65	0.30	2.40	0.30	<b>0.30</b>	0.30	8.29	0.30	<b>0.02</b>	0.02	25.41	4.00	4.07	3.00	62.81	2.00
5/7/2014	0.05	0.04	0.62	0.30	1.98	0.30	<b>0.30</b>	0.30	9.83	0.30	0.05	0.02	22.00	4.00	<b>3.00</b>	3.00	73.10	2.00
6/2/2014	<b>0.04</b>	0.04	0.39	0.30	1.51	0.30	<b>0.30</b>	0.30	9.14	0.30	<b>0.02</b>	0.02	14.66	4.00	<b>3.00</b>	3.00	74.24	2.00
7/8/2014	<b>0.04</b>	0.04	0.89	0.30	1.48	0.30	<b>0.30</b>	0.30	9.95	0.30	<b>0.02</b>	0.02	44.54	4.00	6.20	3.00	66.84	2.00
8/5/2014	<b>0.04</b>	0.04	0.77	0.30	1.25	0.30	<b>0.30</b>	0.30	11.51	0.30	0.03	0.02	17.09	4.00	<b>3.00</b>	3.00	68.54	2.00
9/9/2014	<b>0.04</b>	0.04	1.08	0.30	1.48	0.30	<b>0.30</b>	0.30	15.76	0.30	<b>0.02</b>	0.02	17.63	4.00	7.72	3.00	77.66	2.00
10/7/2014	<b>0.04</b>	0.04	0.98	0.30	1.55	0.30	<b>0.30</b>	0.30	13.88	0.30	0.06	0.02	20.40	4.00	<b>3.00</b>	3.00	76.35	2.00
11/18/2014	<b>0.04</b>	0.04	0.60	0.30	2.41	0.30	<b>0.30</b>	0.30	13.07	0.30	0.02	0.02	27.19	4.00	4.16	3.00	63.66	2.00
12/2/2014	<b>0.04</b>	0.04	1.51	0.30	2.37	0.30	<b>0.30</b>	0.30	16.22	0.30	0.04	0.02	19.31	4.00	3.51	3.00	87.87	2.00

\*Bold numbers are results that were reported at < detection limit

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
<b>yearly average concentration</b>	<0.04	0.90	1.92	<0.30	12.87	<0.03	24.02	<4.97	75.75
<b>yearly median concentration</b>	0.04	0.93	2.03	0.30	13.47	0.02	23.71	3.79	74.87
<b>yearly minimum concentration</b>	<0.04	0.39	1.25	<0.30	8.29	<0.02	14.66	<3.00	62.81
<b>yearly maximum concentration</b>	0.06	1.51	2.41	0.32	18.26	0.06	44.54	13.78	94.00

Table 16: Field's Point Effluent Dissolved Metals

Bucklin Point Dissolved Metals 2014

all results in ppb

MDL = method detection limit

Date	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL	Al	Al MDL	Fe	Fe MDL
1/7/2014	0.05	0.04	0.55	0.30	5.38	0.30	0.35	0.30	3.55	0.30	<b>0.02</b>	0.02	50.11	4.00	11.17	3.00	68.33	2.00
2/4/2014	0.05	0.04	0.41	0.30	5.24	0.30	0.35	0.30	15.98	0.30	0.03	0.02	36.49	4.00	10.55	3.00	72.85	2.00
3/4/2014	0.05	0.04	0.53	0.30	3.83	0.30	0.34	0.30	8.83	0.30	<b>0.02</b>	0.02	39.12	4.00	11.82	3.00	76.07	2.00
4/8/2014	<b>0.04</b>	0.04	0.52	0.30	4.80	0.30	<b>0.30</b>	0.30	3.97	0.30	<b>0.02</b>	0.02	30.41	4.00	4.87	3.00	44.38	2.00
5/6/2014	0.05	0.04	0.40	0.30	6.66	0.30	<b>0.30</b>	0.30	5.05	0.30	0.02	0.02	37.64	4.00	11.33	3.00	65.86	2.00
6/3/2014	0.05	0.04	0.61	0.30	7.73	0.30	0.34	0.30	5.02	0.30	<b>0.02</b>	0.02	39.66	4.00	4.98	3.00	74.59	2.00
7/8/2014	0.06	0.04	0.45	0.30	9.47	0.30	0.36	0.30	6.91	0.30	0.03	0.02	63.63	4.00	11.30	3.00	60.56	2.00
8/5/2014	0.06	0.04	0.69	0.30	10.90	0.30	0.38	0.30	5.99	0.30	0.03	0.02	49.36	4.00	8.66	3.00	56.89	2.00
9/9/2014	0.05	0.04	0.82	0.30	9.86	0.30	0.34	0.30	4.80	0.30	0.04	0.02	45.51	4.00	8.00	3.00	55.52	2.00
10/7/2014	0.05	0.04	1.16	0.30	18.02	0.30	0.97	0.30	7.38	0.30	0.06	0.02	51.54	4.00	15.01	3.00	53.32	2.00
11/18/2014	<b>0.04</b>	0.04	0.79	0.30	5.78	0.30	0.32	0.30	16.21	0.30	0.04	0.02	35.65	4.00	10.93	3.00	42.06	2.00
12/2/2014	0.05	0.04	0.66	0.30	5.99	0.30	0.47	0.30	6.74	0.30	0.02	0.02	50.56	4.00	12.82	3.00	50.32	2.00

\*Bold numbers are results that were reported at < detection limit

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
<b>yearly average concentration</b>	<0.05	0.63	7.81	<0.31	7.54	<0.03	44.14	10.12	60.06
<b>yearly median concentration</b>	0.05	0.58	6.33	0.30	6.36	0.03	42.58	11.05	58.73
<b>yearly minimum concentration</b>	<0.04	0.40	3.83	<0.30	3.55	<0.02	30.41	4.87	42.06
<b>yearly maximum concentration</b>	0.06	1.16	18.02	0.97	16.21	0.06	63.63	15.01	76.07

Table 17: Bucklin Point Effluent Dissolved Metals

Field's Point WWTF Bioassay Results - 2014						
<i>Americamysis bahia</i>						
Acute	1st Quarter, 2014			2nd Quarter, 2014		
Test	Result	Permit Limit	Pass Y/N	Result	Permit Limit	Pass Y/N
LC <sub>50</sub>	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A
	3rd Quarter, 2014			4th Quarter, 2014		
Test	Result	Permit Limit	Pass Y/N	Result	Permit Limit	Pass Y/N
LC <sub>50</sub>	87.4%	>100%	N	≥100%	>100%	Y
A-NOEC	50%	N/A**	N/A	100%	N/A**	N/A

\* NOTE - % indicates Percent Effluent

\*\* No permit limit exists for A-NOEC

LC<sub>50</sub> LC<sub>50</sub> is the effluent concentration that causes 50% mortality during the acute toxicity test duration.

A-NOEC No observable effect concentration: Highest concentration of the effluent in which 90% or more of the test animals survive

Acute Test continuous exposure to effluent for 48 hours

Field's Point WWTF Bioassay Results - 2014						
<i>Arbacia punctulata</i>						
Chronic	1st Quarter, 2014			2nd Quarter, 2014		
Test	Result	Permit Limit	Pass Y/N	Result	Permit Limit	Pass Y/N
C-NOEC	100%	Required monitoring: No Limit	Y	12.5%	Required monitoring: No Limit	Y
	3rd Quarter, 2014			4th Quarter, 2014		
Test	Result	Permit Limit	Pass Y/N	Result	Permit Limit	Pass Y/N
C-NOEC	50%	Required monitoring: No Limit	Y	100%	Required monitoring: No Limit	Y

\* NOTE - % indicates Percent Effluent

C-NOEC Highest concentration of effluent with no observed effect on fertilization rates

Chronic test Tests for sublethal effects of effluent on specifically on fertilization rates of *A. punctulata* eggs. Exposure rate is 60 minutes

Table 18: Field's Point Bioassay Data

<b>Bucklin Point WWTF Bioassay Results - 2014</b> <i>Americamysis bahia</i>						
<b>Acute</b>	<b>1st Quarter, 2014</b>			<b>2nd Quarter, 2014</b>		
<b>Test</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>
LC <sub>50</sub>	>100%	>100%	Y	>100%	>100%	Y
A-NOEC	100%	N/A**	N/A	100%	N/A**	N/A
	<b>3rd Quarter, 2014</b>			<b>4th Quarter, 2014</b>		
<b>Test</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>
LC <sub>50</sub>	>100	>100%	Y	>100%	>100%	Y
A-NOEC	NC	N/A**	N/A	100%	N/A**	N/A

\* NOTE - % indicates Percent Effluent

\*\* No permit limit exists for A-NOEC

LC<sub>50</sub> LC<sub>50</sub> is the effluent concentration that causes 50% mortality during the acute toxicity

A-NOEC No observable effect concentration: Highest concentration of the effluent in which 90% or more of the test animals survive

Acute Test continuous exposure to effluent for 48 hours

NC Not calculated

<b>Bucklin Point WWTF Bioassay Results - 2014</b> <i>Arbacia punctulata</i>						
<b>Chronic</b>	<b>1st Quarter, 2014</b>			<b>2nd Quarter, 2014</b>		
<b>Test</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>
C-NOEC	100%	50%	Y	100%	50%	Y
	<b>3rd Quarter, 2014</b>			<b>4th Quarter, 2014</b>		
<b>Test</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>	<b>Result</b>	<b>Permit Limit</b>	<b>Pass Y/N</b>
C-NOEC	100%	50%	Y	100%	50%	Y

\* NOTE - % indicates Percent Effluent

C-NOEC Highest concentration of effluent with no observed effect on fertilization rates

Chronic test Tests for sublethal effects of effluent on specifically on fertilization rates of *A. punctulata* eggs. Exposure rate is 60 minutes

Table 19: Bucklin Point Bioassay Data

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper		Molybdenum	
	Dry Tons	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
1/7/2014	33.55	3.38		6.99		0.28		3.58		48.61		188.43		9.73	
1/21/2014	26.87	4.68		6.20		0.26		4.24		55.89		215.54		5.14	
<b>Monthly Avg:</b>	<b>30.21</b>	<b>4.03</b>		<b>6.59</b>		<b>0.27</b>		<b>3.91</b>		<b>52.25</b>		<b>201.99</b>		<b>7.44</b>	
<b>Monthly Total in lbs.</b>	<b>1638579</b>		<b>6.60</b>		<b>10.80</b>		<b>0.45</b>		<b>6.41</b>		<b>85.62</b>		<b>330.97</b>		<b>12.18</b>
2/4/2014	31.05	5.58		4.76		0.17		2.61		43.56		144.50		3.95	
2/18/2014	30.38	4.61		3.77		0.19		2.38		41.37		128.42		3.70	
<b>Monthly Avg:</b>	<b>30.71</b>	<b>5.10</b>		<b>4.26</b>		<b>0.18</b>		<b>2.50</b>		<b>42.46</b>		<b>136.46</b>		<b>3.82</b>	
<b>Monthly Total in lbs.</b>	<b>1456662</b>		<b>7.42</b>		<b>6.21</b>		<b>0.26</b>		<b>3.63</b>		<b>61.85</b>		<b>198.77</b>		<b>5.57</b>
3/4/2014	30.11	7.13		4.66		0.22		2.37		42.40		193.42		4.26	
3/18/2014	31.74	6.97		4.03		0.15		2.04		41.18		186.87		3.96	
<b>Monthly Avg:</b>	<b>30.93</b>	<b>7.05</b>		<b>4.35</b>		<b>0.18</b>		<b>2.20</b>		<b>41.79</b>		<b>190.14</b>		<b>4.11</b>	
<b>Monthly Total in lbs.</b>	<b>1527932</b>		<b>10.77</b>		<b>6.64</b>		<b>0.28</b>		<b>3.37</b>		<b>63.85</b>		<b>290.53</b>		<b>6.28</b>
4/1/2014	87.72	6.60		3.54		0.26		1.37		81.13		169.82		4.18	
4/15/2014	28.49	4.88		5.50		0.52		1.62		39.71		136.48		3.88	
<b>Monthly Avg:</b>	<b>58.10</b>	<b>5.74</b>		<b>4.52</b>		<b>0.39</b>		<b>1.50</b>		<b>60.42</b>		<b>153.15</b>		<b>4.03</b>	
<b>Monthly Total in lbs.</b>	<b>1847926</b>		<b>10.61</b>		<b>8.36</b>		<b>0.73</b>		<b>2.77</b>		<b>111.65</b>		<b>283.01</b>		<b>7.45</b>
5/6/2014	25.91	6.46		5.08		0.35		3.47		47.20		219.04		5.60	
5/20/2014	41.52	7.13		4.74		0.30		3.13		54.65		250.61		6.32	
<b>Monthly Avg:</b>	<b>33.72</b>	<b>6.79</b>		<b>4.91</b>		<b>0.33</b>		<b>3.30</b>		<b>50.92</b>		<b>234.82</b>		<b>5.96</b>	
<b>Monthly Total in lbs.</b>	<b>1508909</b>		<b>10.25</b>		<b>7.41</b>		<b>0.49</b>		<b>4.98</b>		<b>76.84</b>		<b>354.33</b>		<b>8.99</b>
6/3/2014	31.84	8.65		4.81		0.32		2.34		47.28		236.09		6.51	
6/17/2014	25.22	8.55		7.35		0.42		2.62		61.10		283.94		6.14	
<b>Monthly Avg:</b>	<b>28.53</b>	<b>8.60</b>		<b>6.08</b>		<b>0.37</b>		<b>2.48</b>		<b>54.19</b>		<b>260.01</b>		<b>6.32</b>	
<b>Monthly Total in lbs.</b>	<b>1449506</b>		<b>12.47</b>		<b>8.81</b>		<b>0.54</b>		<b>3.59</b>		<b>78.55</b>		<b>376.89</b>		<b>9.16</b>
7/1/2014	29.79	9.84		4.74		0.20		2.52		43.33		277.87		7.45	
7/15/2014	30.81	9.43		4.59		0.18		2.36		65.81		247.96		7.10	
<b>Monthly Avg:</b>	<b>30.30</b>	<b>9.63</b>		<b>4.67</b>		<b>0.19</b>		<b>2.44</b>		<b>54.57</b>		<b>262.92</b>		<b>7.27</b>	
<b>Monthly Total in lbs.</b>	<b>1175823</b>		<b>11.33</b>		<b>5.49</b>		<b>0.22</b>		<b>2.87</b>		<b>64.16</b>		<b>309.14</b>		<b>8.55</b>
8/5/2014	13.82	8.56		4.92		0.09		1.65		49.91		279.80		7.91	
8/19/2014	22.88	11.19		6.93		0.22		2.35		80.17		397.94		9.46	
<b>Monthly Avg:</b>	<b>18.35</b>	<b>9.87</b>		<b>5.92</b>		<b>0.15</b>		<b>2.00</b>		<b>65.04</b>		<b>338.87</b>		<b>8.69</b>	
<b>Monthly Total in lbs.</b>	<b>1015333</b>		<b>10.03</b>		<b>6.01</b>		<b>0.15</b>		<b>2.03</b>		<b>66.03</b>		<b>344.07</b>		<b>8.82</b>

Table 20: Field's Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper		Molybdenum	
	Dry Tons	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
9/2/2014	14.25	12.13		5.24		0.17		2.43		56.45		349.54		8.06	
9/16/2014	20.43	8.74		4.96		0.18		2.23		59.93		286.77		7.91	
<b>Monthly Avg:</b>	<b>17.34</b>	<b>10.44</b>		<b>5.10</b>		<b>0.17</b>		<b>2.33</b>		<b>58.19</b>		<b>318.16</b>		<b>7.98</b>	
<b>Monthly Total in lbs.</b>	<b>1097705</b>		<b>11.46</b>		<b>5.60</b>		<b>0.19</b>		<b>2.56</b>		<b>63.87</b>		<b>349.24</b>		<b>8.76</b>
10/7/2014	23.20	8.71		4.02		0.10		2.12		58.66		271.58		6.48	
10/21/2014	21.40	12.57		5.26		0.20		3.15		62.18		395.67		9.74	
<b>Monthly Avg:</b>	<b>22.30</b>	<b>10.64</b>		<b>4.64</b>		<b>0.15</b>		<b>2.63</b>		<b>60.42</b>		<b>333.62</b>		<b>8.11</b>	
<b>Monthly Total in lbs.</b>	<b>1217289</b>		<b>12.95</b>		<b>5.65</b>		<b>0.18</b>		<b>3.20</b>		<b>73.55</b>		<b>406.12</b>		<b>9.87</b>
11/4/2014	22.50	10.66		3.80		0.16		2.36		42.68		293.55		6.84	
11/18/2014	23.19	10.42		3.51		0.11		1.93		40.09		249.07		6.33	
<b>Monthly Avg:</b>	<b>22.84</b>	<b>10.54</b>		<b>3.66</b>		<b>0.14</b>		<b>2.14</b>		<b>41.39</b>		<b>271.31</b>		<b>6.58</b>	
<b>Monthly Total in lbs.</b>	<b>1147029</b>		<b>12.09</b>		<b>4.20</b>		<b>0.16</b>		<b>2.46</b>		<b>47.47</b>		<b>311.20</b>		<b>7.55</b>
12/2/2014	20.87	13.08		6.07		0.14		3.00		38.38		281.62		6.76	
12/16/2014	22.36	12.80		5.20		0.18		2.52		47.67		237.40		5.22	
<b>Monthly Avg:</b>	<b>21.61</b>	<b>12.94</b>		<b>5.63</b>		<b>0.16</b>		<b>2.76</b>		<b>43.02</b>		<b>259.51</b>		<b>5.99</b>	
<b>Monthly Total in lbs.</b>	<b>1229504</b>		<b>15.91</b>		<b>6.93</b>		<b>0.20</b>		<b>3.40</b>		<b>52.90</b>		<b>319.06</b>		<b>7.36</b>
<b>YEARLY TOTAL LBS</b>	<b>16312197</b>		<b>131.89</b>		<b>82.11</b>		<b>3.85</b>		<b>41.26</b>		<b>846.34</b>		<b>3873.34</b>		<b>100.56</b>

Table 20: Field's Point Sludge Analysis



**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
1/7/2014	39.54		81.72		7.22		359.52		0.19		3.70	
1/21/2014	46.45		105.50		5.55		413.94		0.18		4.10	
<b>Monthly Avg:</b>	<b>42.99</b>		<b>93.61</b>		<b>6.38</b>		<b>386.73</b>		<b>0.19</b>		<b>3.90</b>	
<b>Monthly Total in lbs.</b>		<b>70.45</b>		<b>153.39</b>		<b>10.46</b>		<b>633.68</b>		<b>0.30</b>		<b>6.39</b>
2/4/2014	34.73		39.75		9.70		337.16		0.25		4.10	
2/18/2014	24.75		39.30		7.95		290.70		0.24		9.60	
<b>Monthly Avg:</b>	<b>29.74</b>		<b>39.52</b>		<b>8.82</b>		<b>313.93</b>		<b>0.25</b>		<b>6.85</b>	
<b>Monthly Total in lbs.</b>		<b>43.32</b>		<b>57.57</b>		<b>12.85</b>		<b>457.29</b>		<b>0.36</b>		<b>9.98</b>
3/4/2014	29.03		54.97		9.75		345.60		0.34		3.70	
3/18/2014	28.51		45.69		10.43		312.05		0.54		3.80	
<b>Monthly Avg:</b>	<b>28.77</b>		<b>50.33</b>		<b>10.09</b>		<b>328.83</b>		<b>0.44</b>		<b>3.75</b>	
<b>Monthly Total in lbs.</b>		<b>43.96</b>		<b>76.90</b>		<b>15.42</b>		<b>502.42</b>		<b>0.67</b>		<b>5.73</b>
4/1/2014	55.13		87.27		6.10		279.77		1.29		2.25	
4/15/2014	32.94		38.89		6.19		229.48		0.13		1.70	
<b>Monthly Avg:</b>	<b>44.04</b>		<b>63.08</b>		<b>6.15</b>		<b>254.63</b>		<b>0.71</b>		<b>1.98</b>	
<b>Monthly Total in lbs.</b>		<b>81.37</b>		<b>116.56</b>		<b>11.36</b>		<b>470.53</b>		<b>1.31</b>		<b>3.65</b>
5/6/2014	37.12		65.42		9.63		399.91		0.41		3.3	
5/20/2014	46.21		82.75		9.88		535.38		0.68		3.30	
<b>Monthly Avg:</b>	<b>41.66</b>		<b>74.09</b>		<b>9.75</b>		<b>467.65</b>		<b>0.55</b>		<b>3.30</b>	
<b>Monthly Total in lbs.</b>		<b>62.87</b>		<b>111.79</b>		<b>14.72</b>		<b>705.64</b>		<b>0.82</b>		<b>4.98</b>
6/3/2014	42.44		56.87		12.01		470.27		0.34		3.90	
6/17/2014	45.67		97.87		10.26		537.01		0.34		3.40	
<b>Monthly Avg:</b>	<b>44.05</b>		<b>77.37</b>		<b>11.14</b>		<b>503.64</b>		<b>0.34</b>		<b>3.65</b>	
<b>Monthly Total in lbs.</b>		<b>63.86</b>		<b>112.15</b>		<b>16.14</b>		<b>730.03</b>		<b>0.49</b>		<b>5.29</b>
7/1/2014	41.92		61.08		12.01		527.52		0.48		3.60	
7/15/2014	42.87		68.11		10.02		619.43		0.67		3.80	
<b>Monthly Avg:</b>	<b>42.39</b>		<b>64.59</b>		<b>11.02</b>		<b>573.48</b>		<b>0.58</b>		<b>3.70</b>	
<b>Monthly Total in lbs.</b>		<b>49.85</b>		<b>75.95</b>		<b>12.95</b>		<b>674.31</b>		<b>0.68</b>		<b>4.35</b>
8/5/2014	53.04		74.13		13.97		603.46		0.45		4.00	
8/19/2014	75.94		123.42		17.71		803.58		0.42		3.60	
<b>Monthly Avg:</b>	<b>64.49</b>		<b>98.77</b>		<b>15.84</b>		<b>703.52</b>		<b>0.44</b>		<b>3.80</b>	
<b>Monthly Total in lbs.</b>		<b>65.48</b>		<b>100.29</b>		<b>16.08</b>		<b>714.30</b>		<b>0.44</b>		<b>3.86</b>

Table 20: Field's Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
9/2/2014	66.69		83.97		17.86		652.88		0.62		3.70	
9/16/2014	51.22		67.44		17.56		638.81		0.25		3.70	
<b>Monthly Avg:</b>	<b>58.96</b>		<b>75.71</b>		<b>17.71</b>		<b>645.84</b>		<b>0.44</b>		<b>3.70</b>	
<b>Monthly Total in lbs.</b>		<b>64.72</b>		<b>83.10</b>		<b>19.44</b>		<b>708.95</b>		<b>0.48</b>		<b>4.06</b>
10/7/2014	41.28		60.29		15.61		499.70		0.55		2.17	
10/21/2014	62.74		94.77		19.41		727.28		0.36		1.79	
<b>Monthly Avg:</b>	<b>52.01</b>		<b>77.53</b>		<b>17.51</b>		<b>613.49</b>		<b>0.45</b>		<b>1.98</b>	
<b>Monthly Total in lbs.</b>		<b>63.31</b>		<b>94.38</b>		<b>21.31</b>		<b>746.80</b>		<b>0.55</b>		<b>2.41</b>
11/4/2014	45.77		65.28		13.35		505.99		0.33		3.70	
11/18/2014	43.67		81.03		12.71		470.85		0.45		3.20	
<b>Monthly Avg:</b>	<b>44.72</b>		<b>73.16</b>		<b>13.03</b>		<b>488.42</b>		<b>0.39</b>		<b>3.45</b>	
<b>Monthly Total in lbs.</b>		<b>51.30</b>		<b>83.91</b>		<b>14.94</b>		<b>560.23</b>		<b>0.45</b>		<b>3.96</b>
12/2/2014	38.17		75.51		14.58		475.62		0.01		4.1	
12/16/2014	41.69		65.99		11.07		424.33		0.14		4.1	
<b>Monthly Avg:</b>	<b>39.93</b>		<b>70.75</b>		<b>12.82</b>		<b>449.97</b>		<b>0.08</b>		<b>4.10</b>	
<b>Monthly Total in lbs.</b>		<b>49.09</b>		<b>86.99</b>		<b>15.77</b>		<b>553.24</b>		<b>0.09</b>		<b>5.04</b>
<b>YEARLY TOTAL LBS</b>		<b>709.57</b>		<b>1152.99</b>		<b>181.44</b>		<b>7457.42</b>		<b>6.65</b>		<b>59.70</b>

Table 20: Field's Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

<b>Year</b>	<b>Arsenic</b>	<b>Beryllium</b>	<b>Cadmium</b>	<b>Copper</b>	<b>Chromium</b>	<b>Lead</b>	<b>Mercury</b>	<b>Molybdeum</b>	<b>Nickel</b>	<b>Selenium</b>	<b>Silver</b>	<b>Zinc</b>	<b>Cyanide</b>
<b>1994</b>			202.7	13386.0	2628.1	4297.2	74.0		4626.2		1113.9	15683.7	281.0
<b>1995</b>			203.5	14962.8	2824.5	3700.2	55.0		4202.3		818.1	13071.5	189.3
<b>1996</b>	132.3	4.9	186.4	12461.8	3473.3	3389.6	47.8	205.1	3860.3		757.7	11615.1	239.8
<b>1997</b>			189.7	13674.5	3654.7	4122.1	53.9		3400.3		867.9	12323.5	189.6
<b>1998</b>	44.6		208.7	11207.8	2655.5	2879.9	36.9		2188.6		698.3	10101.5	127.1
<b>1999</b>	35.4		233.3	13490.2	2315.0	2516.8	28.8	164.7	1887.7	74.9	677.4	11549.1	90.1
<b>2000</b>	42.4	32.3	352.8	15019.4	1747.7	2544.9	12.0	84.1	1191.9	23.5	384.0	6482.0	49.6
<b>2001</b>	88.1	16.9	205.7	15120.0	2379.0	2611.1	26.3	204.6	2008.3	282.0	634.9	13297.6	111.0
<b>2002</b>	84.9	7.6	154.5	15758.0	1757.0	3156.0	27.9	190.1	1555.0	190.4	651.5	15148.0	79.6
<b>2003</b>	53.6	9.7	183.8	12993.4	1976.2	3008.8	28.4	98.1	1485.4	118.2	466.3	12773.9	60.8
<b>2004</b>	43.4	12.1	221.0	20910.1	3774.2	2608.5	23.8	103.2	2472.9	163.4	501.2	14645.1	95.9
<b>2005</b>	79.5	13.9	250.7	30477.9	4970.6	2867.9	29.6	190.3	3092.9	167.2	478.5	20592.3	78.6
<b>2006</b>	85.2	11.7	131.8	5889.2	1448.6	2616.6	16.7	193.4	1181.6	136.4	452.8	12290.6	56.9
<b>2007</b>	18.5	12.2	64.5	3862.6	612.1	1033.7	6.8	157.1	526.2	41.8	173.4	6833.0	67.5
<b>2008</b>	32.9	48.3	66.7	5426.0	856.5	1793.2	74.0	294.3	841.1	39.2	195.7	9914.5	113.8
<b>2009</b>	38.0	33.0	82.5	4792.0	919.6	1771.9	8.4	300.2	769.1	26.5	132.2	10442.8	121.1
<b>2010</b>	44.8	27.6	73.5	6111.0	928.9	1770.2	60.6	276.2	874.0	33.0	151.0	9897.7	94.6
<b>2011</b>	40.8	26.1	123.7	3795.4	1156.0	1613.2	7.5	261.0	790.7	43.0	115.9	9026.6	71.5
<b>2012</b>	33.8	28.5	78.3	3892.6	995.0	1269.2	8.1	285.5	818.7	114.5	185.3	8760.1	199.1
<b>2013</b>	75.1	3.6	48.0	4202.2	1006.5	1454.2	8.0	99.9	757.9	168.3	189.9	8772.9	83.2
<b>2014</b>	82.1	3.9	41.3	3873.3	846.3	1153.0	6.7	100.6	709.6	181.4	131.9	7457.4	59.7

Table 21: Field's Point Sludge Summary

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper	
	Dry Tons	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
1/7/2014	7.56	14.24		7.18		0.40		4.12		99.07		589.54	
1/21/2014	7.10	12.23		7.05		0.41		3.71		103.26		522.06	
<b>Monthly Avg:</b>	<b>7.33</b>	<b>13.23</b>		<b>7.12</b>		<b>0.40</b>		<b>3.91</b>		<b>101.17</b>		<b>555.80</b>	
<b>Monthly Total in lbs.</b>	<b>362280</b>		<b>4.79</b>		<b>2.58</b>		<b>0.15</b>		<b>1.42</b>		<b>36.65</b>		<b>201.36</b>
2/4/2014	6.86	13.70		5.94		0.57		4.02		118.20		584.50	
2/18/2014	14.14	12.41		6.03		0.53		3.71		105.36		545.64	
<b>Monthly Avg:</b>	<b>10.50</b>	<b>13.06</b>		<b>5.99</b>		<b>0.55</b>		<b>3.86</b>		<b>111.78</b>		<b>565.07</b>	
<b>Monthly Total in lbs.</b>	<b>333080</b>		<b>4.35</b>		<b>1.99</b>		<b>0.18</b>		<b>1.29</b>		<b>37.23</b>		<b>188.21</b>
3/4/2014	7.69	12.44		5.63		0.41		2.39		97.89		512.47	
3/18/2014	7.62	12.02		5.52		0.39		2.37		105.05		536.02	
<b>Monthly Avg:</b>	<b>7.65</b>	<b>12.23</b>		<b>5.58</b>		<b>0.40</b>		<b>2.38</b>		<b>101.47</b>		<b>524.25</b>	
<b>Monthly Total in lbs.</b>	<b>368960</b>		<b>4.51</b>		<b>2.06</b>		<b>0.15</b>		<b>0.88</b>		<b>37.44</b>		<b>193.43</b>
4/1/2014	7.34	11.46		4.62		0.40		1.89		112.10		475.69	
4/15/2014	6.85	13.35		5.13		0.57		2.27		117.36		578.52	
<b>Monthly Avg:</b>	<b>7.10</b>	<b>12.40</b>		<b>4.87</b>		<b>0.48</b>		<b>2.08</b>		<b>114.73</b>		<b>527.10</b>	
<b>Monthly Total in lbs.</b>	<b>360940</b>		<b>4.48</b>		<b>1.76</b>		<b>0.17</b>		<b>0.75</b>		<b>41.41</b>		<b>190.25</b>
5/6/2014	8.03	9.47		6.43		0.65		2.59		129.91		627.88	
5/20/2014	7.55	10.37		5.93		0.72		2.75		142.99		757.19	
<b>Monthly Avg:</b>	<b>7.79</b>	<b>9.92</b>		<b>6.18</b>		<b>0.68</b>		<b>2.67</b>		<b>136.45</b>		<b>692.53</b>	
<b>Monthly Total in lbs.</b>	<b>308800</b>		<b>3.06</b>		<b>1.91</b>		<b>0.21</b>		<b>0.82</b>		<b>42.14</b>		<b>213.85</b>
6/3/2014	7.87	11.20		5.99		0.70		2.52		126.93		776.40	
6/17/2014	7.13	11.53		5.78		0.69		2.33		128.87		806.81	
<b>Monthly Avg:</b>	<b>7.50</b>	<b>11.36</b>		<b>5.88</b>		<b>0.70</b>		<b>2.43</b>		<b>127.90</b>		<b>791.60</b>	
<b>Monthly Total in lbs.</b>	<b>408455</b>		<b>4.64</b>		<b>2.40</b>		<b>0.28</b>		<b>0.99</b>		<b>52.24</b>		<b>323.33</b>
7/1/2014	7.76	14.10		6.26		0.74		2.85		117.28		949.96	
7/15/2014	7.12	12.69		6.00		0.63		2.65		94.55		863.36	
<b>Monthly Avg:</b>	<b>7.44</b>	<b>13.39</b>		<b>6.13</b>		<b>0.68</b>		<b>2.75</b>		<b>105.91</b>		<b>906.66</b>	
<b>Monthly Total in lbs.</b>	<b>383580</b>		<b>5.14</b>		<b>2.35</b>		<b>0.26</b>		<b>1.06</b>		<b>40.63</b>		<b>347.78</b>
8/5/2014	6.88	13.93		7.29		0.76		2.03		89.22		1104.84	
8/19/2014	6.98	12.62		6.34		0.55		1.50		71.45		909.59	
<b>Monthly Avg:</b>	<b>6.93</b>	<b>13.27</b>		<b>6.82</b>		<b>0.65</b>		<b>1.76</b>		<b>80.34</b>		<b>1007.22</b>	
<b>Monthly Total in lbs.</b>	<b>348320</b>		<b>4.62</b>		<b>2.37</b>		<b>0.23</b>		<b>0.61</b>		<b>27.98</b>		<b>350.83</b>
9/2/2014	7.11	14.73		7.32		0.54		2.07		76.20		881.15	
9/16/2014	7.04	18.19		7.63		0.74		2.45		90.08		1089.96	
<b>Monthly Avg:</b>	<b>7.08</b>	<b>16.46</b>		<b>7.48</b>		<b>0.64</b>		<b>2.26</b>		<b>83.14</b>		<b>985.56</b>	
<b>Monthly Total in lbs.</b>	<b>359540</b>		<b>5.92</b>		<b>2.69</b>		<b>0.23</b>		<b>0.81</b>		<b>29.89</b>		<b>354.35</b>
10/7/2014	6.70	18.64		6.85		0.86		2.76		91.35		1185.61	
10/21/2014	7.07	16.37		6.68		0.73		2.46		79.45		984.57	
<b>Monthly Avg:</b>	<b>6.88</b>	<b>17.50</b>		<b>6.76</b>		<b>0.79</b>		<b>2.61</b>		<b>85.40</b>		<b>1085.09</b>	
<b>Monthly Total in lbs.</b>	<b>365140</b>		<b>6.39</b>		<b>2.47</b>		<b>0.29</b>		<b>0.95</b>		<b>31.18</b>		<b>396.21</b>

Table 22: Bucklin Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Sludge	Silver		Arsenic		Beryllium		Cadmium		Chromium		Copper	
	Dry Tons	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
11/4/2014	7.36	17.11		6.93		0.75		2.25		82.30		928.29	
11/18/2014	8.26	17.72		7.14		0.67		2.32		88.99		879.86	
<b>Monthly Avg:</b>	<b>7.81</b>	<b>17.42</b>		<b>7.03</b>		<b>0.71</b>		<b>2.29</b>		<b>85.64</b>		<b>904.07</b>	
<b>Monthly Total in lbs.</b>	<b>277580</b>		<b>4.83</b>		<b>1.95</b>		<b>0.20</b>		<b>0.63</b>		<b>23.77</b>		<b>250.95</b>
12/2/2014	8.01	15.20		5.68		0.59		2.53		99.12		788.86	
12/16/2014	7.34	16.22		6.98		0.58		2.82		98.80		801.15	
<b>Monthly Avg:</b>	<b>7.68</b>	<b>15.71</b>		<b>6.33</b>		<b>0.59</b>		<b>2.68</b>		<b>98.96</b>		<b>795.00</b>	
<b>Monthly Total in lbs.</b>	<b>324220</b>		<b>5.09</b>		<b>2.05</b>		<b>0.19</b>		<b>0.87</b>		<b>32.09</b>		<b>257.76</b>
<b>YEARLY TOTAL LBS</b>	<b>4200895</b>		<b>57.83</b>		<b>26.59</b>		<b>2.54</b>		<b>11.09</b>		<b>432.65</b>		<b>3268.31</b>

k

Table 22: Bucklin Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Molybdenum		Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
1/7/2014	14.41		74.71		88.75		6.07		773.58		0.57		3.90	
1/21/2014	12.58		70.26		93.23		4.40		694.67		0.65		3.50	
<b>Monthly Avg:</b>	<b>13.49</b>		<b>72.48</b>		<b>90.99</b>		<b>5.24</b>		<b>734.13</b>		<b>0.61</b>		<b>3.70</b>	
<b>Monthly Total in lbs.</b>		<b>4.89</b>		<b>26.26</b>		<b>32.96</b>		<b>1.90</b>		<b>265.96</b>		<b>0.22</b>		<b>1.34</b>
2/4/2014	12.93		80.86		95.93		6.50		786.91		0.71		4.10	
2/18/2014	12.22		87.02		83.28		6.40		755.15		0.84		4.10	
<b>Monthly Avg:</b>	<b>12.58</b>		<b>83.94</b>		<b>89.60</b>		<b>6.45</b>		<b>771.03</b>		<b>0.78</b>		<b>4.10</b>	
<b>Monthly Total in lbs.</b>		<b>4.19</b>		<b>27.96</b>		<b>29.85</b>		<b>2.15</b>		<b>256.81</b>		<b>0.26</b>		<b>1.37</b>
3/4/2014	11.16		83.26		78.58		6.36		649.92		0.26		19.00	
3/18/2014	11.55		76.48		74.11		7.04		619.67		1.10		4.10	
<b>Monthly Avg:</b>	<b>11.36</b>		<b>79.87</b>		<b>76.35</b>		<b>6.70</b>		<b>634.80</b>		<b>0.68</b>		<b>11.55</b>	
<b>Monthly Total in lbs.</b>		<b>4.19</b>		<b>29.47</b>		<b>28.17</b>		<b>2.47</b>		<b>234.22</b>		<b>0.25</b>		<b>4.26</b>
4/1/2014	9.87		69.70		75.27		6.69		532.87		0.71		3.11	
4/15/2014	11.44		83.26		94.44		6.81		636.54		0.71		3.58	
<b>Monthly Avg:</b>	<b>10.65</b>		<b>76.48</b>		<b>84.85</b>		<b>6.75</b>		<b>584.71</b>		<b>0.71</b>		<b>3.35</b>	
<b>Monthly Total in lbs.</b>		<b>3.85</b>		<b>27.60</b>		<b>30.63</b>		<b>2.44</b>		<b>211.04</b>		<b>0.26</b>		<b>1.21</b>
5/6/2014	11.57		88.95		89.79		8.40		707.91		0.29		4.80	
5/20/2014	11.19		93.88		96.72		7.43		849.71		0.82		3.70	
<b>Monthly Avg:</b>	<b>11.38</b>		<b>91.41</b>		<b>93.26</b>		<b>7.92</b>		<b>778.81</b>		<b>0.56</b>		<b>4.25</b>	
<b>Monthly Total in lbs.</b>		<b>3.51</b>		<b>28.23</b>		<b>28.80</b>		<b>2.44</b>		<b>240.50</b>		<b>0.17</b>		<b>1.31</b>
6/3/2014	11.49		77.37		85.30		7.47		790.70		0.74		3.80	
6/17/2014	12.19		76.53		87.35		7.51		793.86		0.88		3.90	
<b>Monthly Avg:</b>	<b>11.84</b>		<b>76.95</b>		<b>86.32</b>		<b>7.49</b>		<b>792.28</b>		<b>0.81</b>		<b>3.85</b>	
<b>Monthly Total in lbs.</b>		<b>4.84</b>		<b>31.43</b>		<b>35.26</b>		<b>3.06</b>		<b>323.61</b>		<b>0.33</b>		<b>1.57</b>
7/1/2014	13.27		72.87		96.23		8.74		913.32		0.63		4.10	
7/15/2014	11.74		61.63		88.37		7.47		873.45		0.81		3.90	
<b>Monthly Avg:</b>	<b>12.51</b>		<b>67.25</b>		<b>92.30</b>		<b>8.11</b>		<b>893.38</b>		<b>0.72</b>		<b>4.00</b>	
<b>Monthly Total in lbs.</b>		<b>4.80</b>		<b>25.80</b>		<b>35.41</b>		<b>3.11</b>		<b>342.68</b>		<b>0.28</b>		<b>1.53</b>
8/5/2014	14.03		62.12		104.02		9.21		1073.58		0.56		4.30	
8/19/2014	11.53		53.54		90.16		7.10		911.58		0.78		3.80	
<b>Monthly Avg:</b>	<b>12.78</b>		<b>57.83</b>		<b>97.09</b>		<b>8.16</b>		<b>992.58</b>		<b>0.67</b>		<b>4.05</b>	
<b>Monthly Total in lbs.</b>		<b>4.45</b>		<b>20.14</b>		<b>33.82</b>		<b>2.84</b>		<b>345.73</b>		<b>0.23</b>		<b>1.41</b>
9/2/2014	12.15		68.11		80.03		8.85		853.49		0.70		3.80	
9/16/2014	12.56		81.05		92.87		8.79		1053.42		0.78		4.00	
<b>Monthly Avg:</b>	<b>12.35</b>		<b>74.58</b>		<b>86.45</b>		<b>8.82</b>		<b>953.45</b>		<b>0.74</b>		<b>3.90</b>	
<b>Monthly Total in lbs.</b>		<b>4.44</b>		<b>26.81</b>		<b>31.08</b>		<b>3.17</b>		<b>342.80</b>		<b>0.27</b>		<b>1.40</b>
10/7/2014	11.06		86.17		95.02		7.82		1110.03		0.89		2.43	
10/21/2014	12.49		71.04		86.25		8.08		944.54		1.10		5.30	
<b>Monthly Avg:</b>	<b>11.77</b>		<b>78.60</b>		<b>90.64</b>		<b>7.95</b>		<b>1027.28</b>		<b>1.00</b>		<b>3.87</b>	
<b>Monthly Total in lbs.</b>		<b>4.30</b>		<b>28.70</b>		<b>33.09</b>		<b>2.90</b>		<b>375.10</b>		<b>0.36</b>		<b>1.41</b>

Table 22: Bucklin Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

Date	Molybdenum		Nickel		Lead		Selenium		Zinc		Mercury		Cyanide	
	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs	ppm	lbs
11/4/2014	13.28		68.62		91.78		7.03		961.97		0.68		4.20	
11/18/2014	14.04		85.59		87.39		7.66		995.84		0.97		3.70	
<b>Monthly Avg:</b>	<b>13.66</b>		<b>77.10</b>		<b>89.58</b>		<b>7.34</b>		<b>978.90</b>		<b>0.83</b>		<b>3.95</b>	
<b>Monthly Total in lbs.</b>		<b>3.79</b>		<b>21.40</b>		<b>24.87</b>		<b>2.04</b>		<b>271.72</b>		<b>0.23</b>		<b>1.10</b>
12/2/2014	13.10		126.85		86.76		4.89		876.92		0.02		3.90	
12/16/2014	13.30		127.63		95.22		6.28		906.51		0.03		3.70	
<b>Monthly Avg:</b>	<b>13.20</b>		<b>127.24</b>		<b>90.99</b>		<b>5.59</b>		<b>891.72</b>		<b>0.03</b>		<b>3.80</b>	
<b>Monthly Total in lbs.</b>		<b>4.28</b>		<b>41.25</b>		<b>29.50</b>		<b>1.81</b>		<b>289.11</b>		<b>0.01</b>		<b>1.23</b>
<b>YEARLY TOTAL LBS</b>		<b>51.52</b>		<b>335.06</b>		<b>373.43</b>		<b>30.34</b>		<b>3499.30</b>		<b>2.87</b>		<b>19.15</b>

Table 22: Bucklin Point Sludge Analysis

**Bucklin Point Metals Loading from Final Sludge (lbs/yr)**

<b>Year</b>	<b>Arsenic</b>	<b>Beryllium</b>	<b>Cadmium</b>	<b>Copper</b>	<b>Chromium</b>	<b>Lead</b>	<b>Mercury</b>	<b>Molybdeum</b>	<b>Nickel</b>	<b>Selenium</b>	<b>Silver</b>	<b>Zinc</b>	<b>Cyanide</b>
<b>1994</b>	16.2		35.4	3839.7	655.5	723.4	84.2		627.6		171.3	4234.5	64.3
<b>1995</b>			35.8	4306.7	681.0	551.8	55.9		539.8		126.2	3495.8	57.6
<b>1996</b>													
<b>1997</b>	16.0		52.9	4589.3	1177.6	1183.6	16.0		1074.4		339.8	4349.4	58.9
<b>1998</b>	12.2		44.8	4743.4	1263.0	1128.3	12.2		977.8		463.4	5838.9	27.7
<b>1999</b>	11.1		44.4	3906.8	993.6	930.3	11.1		716.9		473.0	5945.8	24.3
<b>2000</b>	38.3		60.8	5164.7	1304.1	1073.2	16.8	171.8	1345.4		467.7	7104.0	24.8
<b>2001</b>	57.8	13.6	38.6	4132.9	1003.3	900.1	12.0	167.4	985.3	44.4	371.2	6336.5	33.6
<b>2002</b>	43.7	6.1	27.1	4565.0	755.0	1034.3	18.0	148.9	840.7	37.6	385.8	7226.0	13.3
<b>2003</b>	30.2	6.6	29.2	3439.4	2669.3	772.3	10.0	69.3	868.1	32.1	273.0	5973.1	8.9
<b>2004</b>	27.6	7.3	45.5	3733.7	851.5	739.0	11.6	62.0	794.7	36.1	225.0	6759.2	7.6
<b>2005</b>	18.8	5.9	30.9	4468.6	969.5	682.1	8.9	77.4	781.5	32.5	153.0	5469.7	10.3
<b>2006</b>	25.5	2.0	24.4	3657.0	2398.8	713.0	6.8	37.1	1089.2	33.9	165.4	4953.9	12.0
<b>2007</b>	11.2	5.2	25.7	4676.1	4143.3	633.5	9.3	70.7	1389.7	14.4	177.5	5635.0	22.8
<b>2008</b>	8.9	14.1	23.3	4209.5	5594.6	585.4	36.0	84.7	1568.6	17.4	116.8	5519.0	27.4
<b>2009</b>	18.1	8.2	20.6	3132.4	1054.3	516.6	4.6	79.6	438.2	14.6	62.5	4895.0	19.3
<b>2010</b>	20.7	7.0	17.5	3075.2	619.0	445.7	14.4	74.3	318.1	14.6	58.1	3949.5	17.1
<b>2011</b>	19.3	9.0	13.9	2159.5	499.9	474.2	4.9	90.0	294.1	15.1	66.4	3583.1	14.5
<b>2012</b>	18.2	8.4	13.5	2502.2	370.6	370.7	4.3	84.3	269.2	16.0	56.8	3388.8	24.9
<b>2013</b>	21.1	1.9	11.7	2493.6	349.5	381.4	4.0	45.4	271.9	21.2	54.1	3264.5	19.6
<b>2014</b>	26.6	2.5	11.1	3268.3	432.7	373.4	2.9	51.5	335.1	30.3	57.8	3499.3	19.1

Table 23: Bucklin Point Sludge Summary



Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2014	1,1,1-Trichloroethane	<1	ppb
1/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
1/7/2014	1,1,2-Trichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethene	<1	ppb
1/7/2014	1,2-dichlorobenzene	<1	ppb
1/7/2014	1,2-Dichloroethane	<1	ppb
1/7/2014	1,2-Dichloropropane	<1	ppb
1/7/2014	1,3-dichlorobenzene	<1	ppb
1/7/2014	1,4-dichlorobenzene	<1	ppb
1/7/2014	2-Chloroethylvinylether	<2	ppb
1/7/2014	Benzene	<1	ppb
1/7/2014	Bromodichloromethane	<1	ppb
1/7/2014	Bromoform	<1	ppb
1/7/2014	Bromomethane	<10	ppb
1/7/2014	Carbon Tetrachloride	<1	ppb
1/7/2014	Chlorobenzene	<1	ppb
1/7/2014	Chloroethane	<10	ppb
1/7/2014	Chloroform	3	ppb
1/7/2014	Chloromethane	<10	ppb
1/7/2014	cis-1,3-Dichloropropene	<1	ppb
1/7/2014	Dibromochloromethane	<1	ppb
1/7/2014	Ethylbenzene	<1	ppb
1/7/2014	Methylene Chloride	<5	ppb
1/7/2014	o- xylene	<1	ppb
1/7/2014	p&m xylene	<1	ppb
1/7/2014	Tetrachlorethene	<1	ppb
1/7/2014	Toluene	1	ppb
1/7/2014	Trans-1,2-Dichloroethene	<1	ppb
1/7/2014	Trans-1,3-Dichloropropene	<1	ppb
1/7/2014	Trichlorethene	<1	ppb
1/7/2014	Trichlorofluoromethane	<1	ppb
1/7/2014	Vinyl Chloride	<1	ppb
2/4/2014	1,1,1-Trichloroethane	<1	ppb
2/4/2014	1,1,2,2-Tetrachlorethane	<1	ppb
2/4/2014	1,1,2-Trichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethene	<1	ppb
2/4/2014	1,2-dichlorobenzene	<1	ppb
2/4/2014	1,2-Dichloroethane	<1	ppb
2/4/2014	1,2-Dichloropropane	<1	ppb
2/4/2014	1,3-dichlorobenzene	<1	ppb
2/4/2014	1,4-dichlorobenzene	<1	ppb
2/4/2014	2-Chloroethylvinylether	<2	ppb
2/4/2014	Benzene	<1	ppb
2/4/2014	Bromodichloromethane	<1	ppb
2/4/2014	Bromoform	<1	ppb
2/4/2014	Bromomethane	<10	ppb
2/4/2014	Carbon Tetrachloride	<1	ppb
2/4/2014	Chlorobenzene	<1	ppb
2/4/2014	Chloroethane	<10	ppb
2/4/2014	Chloroform	5	ppb
2/4/2014	Chloromethane	<10	ppb
2/4/2014	cis-1,3-Dichloropropene	<1	ppb
2/4/2014	Dibromochloromethane	<1	ppb
2/4/2014	Ethylbenzene	<1	ppb
2/4/2014	Methylene Chloride	<5	ppb
2/4/2014	o- xylene	<1	ppb
2/4/2014	p&m xylene	<1	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2014	1,1,1-Trichloroethane	<1	ppb
1/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
1/7/2014	1,1,2-Trichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethene	<1	ppb
1/7/2014	1,2-dichlorobenzene	<1	ppb
1/7/2014	1,2-Dichloroethane	<1	ppb
1/7/2014	1,2-Dichloropropane	<1	ppb
1/7/2014	1,3-dichlorobenzene	<1	ppb
1/7/2014	1,4-dichlorobenzene	<1	ppb
1/7/2014	2-Chloroethylvinylether	<2	ppb
1/7/2014	Benzene	<1	ppb
1/7/2014	Bromodichloromethane	1	ppb
1/7/2014	Bromoform	<1	ppb
1/7/2014	Bromomethane	<10	ppb
1/7/2014	Carbon Tetrachloride	<1	ppb
1/7/2014	Chlorobenzene	<1	ppb
1/7/2014	Chloroethane	<10	ppb
1/7/2014	Chloroform	2	ppb
1/7/2014	Chloromethane	<10	ppb
1/7/2014	cis-1,3-Dichloropropene	<1	ppb
1/7/2014	Dibromochloromethane	<1	ppb
1/7/2014	Ethylbenzene	<1	ppb
1/7/2014	Methylene Chloride	<5	ppb
1/7/2014	o- xylene	<1	ppb
1/7/2014	p&m xylene	<1	ppb
1/7/2014	Tetrachlorethene	<1	ppb
1/7/2014	Toluene	<1	ppb
1/7/2014	Trans-1,2-Dichloroethene	<1	ppb
1/7/2014	Trans-1,3-Dichloropropene	<1	ppb
1/7/2014	Trichlorethene	<1	ppb
1/7/2014	Trichlorofluoromethane	<1	ppb
1/7/2014	Vinyl Chloride	<1	ppb
2/4/2014	1,1,1-Trichloroethane	<1	ppb
2/4/2014	1,1,2,2-Tetrachlorethane	<1	ppb
2/4/2014	1,1,2-Trichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethene	<1	ppb
2/4/2014	1,2-dichlorobenzene	<1	ppb
2/4/2014	1,2-Dichloroethane	<1	ppb
2/4/2014	1,2-Dichloropropane	<1	ppb
2/4/2014	1,3-dichlorobenzene	<1	ppb
2/4/2014	1,4-dichlorobenzene	<1	ppb
2/4/2014	2-Chloroethylvinylether	<2	ppb
2/4/2014	Benzene	<1	ppb
2/4/2014	Bromodichloromethane	1	ppb
2/4/2014	Bromoform	<1	ppb
2/4/2014	Bromomethane	<10	ppb
2/4/2014	Carbon Tetrachloride	<1	ppb
2/4/2014	Chlorobenzene	<1	ppb
2/4/2014	Chloroethane	<10	ppb
2/4/2014	Chloroform	2	ppb
2/4/2014	Chloromethane	<10	ppb
2/4/2014	cis-1,3-Dichloropropene	<1	ppb
2/4/2014	Dibromochloromethane	1	ppb
2/4/2014	Ethylbenzene	<1	ppb
2/4/2014	Methylene Chloride	<5	ppb
2/4/2014	o- xylene	<1	ppb
2/4/2014	p&m xylene	<1	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2014	Tetrachlorethene	2	ppb
2/4/2014	Toluene	3	ppb
2/4/2014	Trans-1,2-Dichloroethene	<1	ppb
2/4/2014	Trans-1,3-Dichloropropene	<1	ppb
2/4/2014	Trichlorethene	3	ppb
2/4/2014	Trichlorofluoromethane	<1	ppb
2/4/2014	Vinyl Chloride	<1	ppb
3/4/2014	1,1,1-Trichloroethane	<1	ppb
3/4/2014	1,1,2,2-Tetrachlorethene	<1	ppb
3/4/2014	1,1,2-Trichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethene	<1	ppb
3/4/2014	1,2-dichlorobenzene	<1	ppb
3/4/2014	1,2-Dichloroethane	<1	ppb
3/4/2014	1,2-Dichloropropane	<1	ppb
3/4/2014	1,3-dichlorobenzene	<1	ppb
3/4/2014	1,4-dichlorobenzene	<1	ppb
3/4/2014	2-Chloroethylvinylether	<2	ppb
3/4/2014	Benzene	<1	ppb
3/4/2014	Bromodichloromethane	<1	ppb
3/4/2014	Bromoform	<1	ppb
3/4/2014	Bromomethane	<10	ppb
3/4/2014	Carbon Tetrachloride	<1	ppb
3/4/2014	Chlorobenzene	<1	ppb
3/4/2014	Chloroethane	<10	ppb
3/4/2014	Chloroform	5	ppb
3/4/2014	Chloromethane	<10	ppb
3/4/2014	cis-1,3-Dichloropropene	<1	ppb
3/4/2014	Dibromochloromethane	<1	ppb
3/4/2014	Ethylbenzene	<1	ppb
3/4/2014	Methylene Chloride	<5	ppb
3/4/2014	o- xylene	<1	ppb
3/4/2014	p&m xylene	<1	ppb
3/4/2014	Tetrachlorethene	2	ppb
3/4/2014	Toluene	1	ppb
3/4/2014	Trans-1,2-Dichloroethene	<1	ppb
3/4/2014	Trans-1,3-Dichloropropene	<1	ppb
3/4/2014	Trichlorethene	1	ppb
3/4/2014	Trichlorofluoromethane	<1	ppb
3/4/2014	Vinyl Chloride	<1	ppb
4/8/2014	1,1,1-Trichloroethane	<1	ppb
4/8/2014	1,1,2,2-Tetrachlorethene	<1	ppb
4/8/2014	1,1,2-Trichloroethane	<1	ppb
4/8/2014	1,1-Dichloroethane	<1	ppb
4/8/2014	1,1-Dichloroethene	<1	ppb
4/8/2014	1,2-dichlorobenzene	<1	ppb
4/8/2014	1,2-Dichloroethane	<1	ppb
4/8/2014	1,2-Dichloropropane	<1	ppb
4/8/2014	1,3-dichlorobenzene	<1	ppb
4/8/2014	1,4-dichlorobenzene	<1	ppb
4/8/2014	2-Chloroethylvinylether	<2	ppb
4/8/2014	Benzene	<1	ppb
4/8/2014	Bromodichloromethane	<1	ppb
4/8/2014	Bromoform	<1	ppb
4/8/2014	Bromomethane	<10	ppb
4/8/2014	Carbon Tetrachloride	<1	ppb
4/8/2014	Chlorobenzene	<1	ppb
4/8/2014	Chloroethane	<10	ppb
4/8/2014	Chloroform	5	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2014	Tetrachlorethene	<1	ppb
2/4/2014	Toluene	<1	ppb
2/4/2014	Trans-1,2-Dichloroethene	<1	ppb
2/4/2014	Trans-1,3-Dichloropropene	<1	ppb
2/4/2014	Trichlorethene	<1	ppb
2/4/2014	Trichlorofluoromethane	<1	ppb
2/4/2014	Vinyl Chloride	<1	ppb
3/4/2014	1,1,1-Trichloroethane	<1	ppb
3/4/2014	1,1,2,2-Tetrachlorethene	<1	ppb
3/4/2014	1,1,2-Trichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethene	<1	ppb
3/4/2014	1,2-dichlorobenzene	<1	ppb
3/4/2014	1,2-Dichloroethane	<1	ppb
3/4/2014	1,2-Dichloropropane	<1	ppb
3/4/2014	1,3-dichlorobenzene	<1	ppb
3/4/2014	1,4-dichlorobenzene	<1	ppb
3/4/2014	2-Chloroethylvinylether	<2	ppb
3/4/2014	Benzene	<1	ppb
3/4/2014	Bromodichloromethane	<1	ppb
3/4/2014	Bromoform	<1	ppb
3/4/2014	Bromomethane	<10	ppb
3/4/2014	Carbon Tetrachloride	<1	ppb
3/4/2014	Chlorobenzene	<1	ppb
3/4/2014	Chloroethane	<10	ppb
3/4/2014	Chloroform	2	ppb
3/4/2014	Chloromethane	<10	ppb
3/4/2014	cis-1,3-Dichloropropene	<1	ppb
3/4/2014	Dibromochloromethane	<1	ppb
3/4/2014	Ethylbenzene	<1	ppb
3/4/2014	Methylene Chloride	<5	ppb
3/4/2014	o- xylene	<1	ppb
3/4/2014	p&m xylene	<1	ppb
3/4/2014	Tetrachlorethene	<1	ppb
3/4/2014	Toluene	<1	ppb
3/4/2014	Trans-1,2-Dichloroethene	<1	ppb
3/4/2014	Trans-1,3-Dichloropropene	<1	ppb
3/4/2014	Trichlorethene	<1	ppb
3/4/2014	Trichlorofluoromethane	<1	ppb
3/4/2014	Vinyl Chloride	<1	ppb
4/9/2014	1,1,1-Trichloroethane	<1	ppb
4/9/2014	1,1,2,2-Tetrachlorethene	<1	ppb
4/9/2014	1,1,2-Trichloroethane	<1	ppb
4/9/2014	1,1-Dichloroethane	<1	ppb
4/9/2014	1,1-Dichloroethene	<1	ppb
4/9/2014	1,2-dichlorobenzene	<1	ppb
4/9/2014	1,2-Dichloroethane	<1	ppb
4/9/2014	1,2-Dichloropropane	<1	ppb
4/9/2014	1,3-dichlorobenzene	<1	ppb
4/9/2014	1,4-dichlorobenzene	<1	ppb
4/9/2014	2-Chloroethylvinylether	<2	ppb
4/9/2014	Benzene	<1	ppb
4/9/2014	Bromodichloromethane	<1	ppb
4/9/2014	Bromoform	<1	ppb
4/9/2014	Bromomethane	<10	ppb
4/9/2014	Carbon Tetrachloride	<1	ppb
4/9/2014	Chlorobenzene	<1	ppb
4/9/2014	Chloroethane	<10	ppb
4/9/2014	Chloroform	2	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
4/8/2014	Chloromethane	<10	ppb
4/8/2014	cis-1,3-Dichloropropene	<1	ppb
4/8/2014	Dibromochloromethane	<1	ppb
4/8/2014	Ethylbenzene	<1	ppb
4/8/2014	Methylene Chloride	<5	ppb
4/8/2014	o- xylene	<1	ppb
4/8/2014	p&m xylene	<1	ppb
4/8/2014	Tetrachlorethene	2	ppb
4/8/2014	Toluene	1	ppb
4/8/2014	Trans-1,2-Dichloroethene	<1	ppb
4/8/2014	Trans-1,3-Dichloropropene	<1	ppb
4/8/2014	Trichlorethene	6	ppb
4/8/2014	Trichlorofluoromethane	<1	ppb
4/8/2014	Vinyl Chloride	<1	ppb
5/6/2014	1,1,1-Trichloroethane	<1	ppb
5/6/2014	1,1,2,2-Tetrachlorethene	<1	ppb
5/6/2014	1,1,2-Trichloroethane	<1	ppb
5/6/2014	1,1-Dichloroethane	<1	ppb
5/6/2014	1,1-Dichloroethene	<1	ppb
5/6/2014	1,2-dichlorobenzene	<1	ppb
5/6/2014	1,2-Dichloroethane	<1	ppb
5/6/2014	1,2-Dichloropropane	<1	ppb
5/6/2014	1,3-dichlorobenzene	<1	ppb
5/6/2014	1,4-dichlorobenzene	<1	ppb
5/6/2014	2-Chloroethylvinylether	<2	ppb
5/6/2014	Benzene	<1	ppb
5/6/2014	Bromodichloromethane	<1	ppb
5/6/2014	Bromoform	<1	ppb
5/6/2014	Bromomethane	<10	ppb
5/6/2014	Carbon Tetrachloride	<1	ppb
5/6/2014	Chlorobenzene	<1	ppb
5/6/2014	Chloroethane	<10	ppb
5/6/2014	Chloroform	5	ppb
5/6/2014	Chloromethane	<10	ppb
5/6/2014	cis-1,3-Dichloropropene	<1	ppb
5/6/2014	Dibromochloromethane	<1	ppb
5/6/2014	Ethylbenzene	<1	ppb
5/6/2014	Methylene Chloride	<5	ppb
5/6/2014	o- xylene	<1	ppb
5/6/2014	p&m xylene	<1	ppb
5/6/2014	Tetrachlorethene	2	ppb
5/6/2014	Toluene	1	ppb
5/6/2014	Trans-1,2-Dichloroethene	<1	ppb
5/6/2014	Trans-1,3-Dichloropropene	<1	ppb
5/6/2014	Trichlorethene	2	ppb
5/6/2014	Trichlorofluoromethane	<1	ppb
5/6/2014	Vinyl Chloride	<1	ppb
6/3/2014	1,1,1-Trichloroethane	<1	ppb
6/3/2014	1,1,2,2-Tetrachlorethene	<1	ppb
6/3/2014	1,1,2-Trichloroethane	<1	ppb
6/3/2014	1,1-Dichloroethane	<1	ppb
6/3/2014	1,1-Dichloroethene	<1	ppb
6/3/2014	1,2-dichlorobenzene	<1	ppb
6/3/2014	1,2-Dichloroethane	<1	ppb
6/3/2014	1,2-Dichloropropane	<1	ppb
6/3/2014	1,3-dichlorobenzene	<1	ppb
6/3/2014	1,4-dichlorobenzene	<1	ppb
6/3/2014	2-Chloroethylvinylether	<2	ppb
6/3/2014	Benzene	<1	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
4/9/2014	Chloromethane	<10	ppb
4/9/2014	cis-1,3-Dichloropropene	<1	ppb
4/9/2014	Dibromochloromethane	<1	ppb
4/9/2014	Ethylbenzene	<1	ppb
4/9/2014	Methylene Chloride	<5	ppb
4/9/2014	o- xylene	<1	ppb
4/9/2014	p&m xylene	<1	ppb
4/9/2014	Tetrachlorethene	<1	ppb
4/9/2014	Toluene	<1	ppb
4/9/2014	Trans-1,2-Dichloroethene	<1	ppb
4/9/2014	Trans-1,3-Dichloropropene	<1	ppb
4/9/2014	Trichlorethene	<1	ppb
4/9/2014	Trichlorofluoromethane	<1	ppb
4/9/2014	Vinyl Chloride	<1	ppb
5/7/2014	1,1,1-Trichloroethane	<1	ppb
5/7/2014	1,1,2,2-Tetrachlorethene	<1	ppb
5/7/2014	1,1,2-Trichloroethane	<1	ppb
5/7/2014	1,1-Dichloroethane	<1	ppb
5/7/2014	1,1-Dichloroethene	<1	ppb
5/7/2014	1,2-dichlorobenzene	<1	ppb
5/7/2014	1,2-Dichloroethane	<1	ppb
5/7/2014	1,2-Dichloropropane	<1	ppb
5/7/2014	1,3-dichlorobenzene	<1	ppb
5/7/2014	1,4-dichlorobenzene	<1	ppb
5/7/2014	2-Chloroethylvinylether	<2	ppb
5/7/2014	Benzene	<1	ppb
5/7/2014	Bromodichloromethane	4	ppb
5/7/2014	Bromoform	1	ppb
5/7/2014	Bromomethane	<10	ppb
5/7/2014	Carbon Tetrachloride	<1	ppb
5/7/2014	Chlorobenzene	<1	ppb
5/7/2014	Chloroethane	<10	ppb
5/7/2014	Chloroform	3	ppb
5/7/2014	Chloromethane	<10	ppb
5/7/2014	cis-1,3-Dichloropropene	<1	ppb
5/7/2014	Dibromochloromethane	4	ppb
5/7/2014	Ethylbenzene	<1	ppb
5/7/2014	Methylene Chloride	<5	ppb
5/7/2014	o- xylene	<1	ppb
5/7/2014	p&m xylene	<1	ppb
5/7/2014	Tetrachlorethene	<1	ppb
5/7/2014	Toluene	<1	ppb
5/7/2014	Trans-1,2-Dichloroethene	<1	ppb
5/7/2014	Trans-1,3-Dichloropropene	<1	ppb
5/7/2014	Trichlorethene	<1	ppb
5/7/2014	Trichlorofluoromethane	<1	ppb
5/7/2014	Vinyl Chloride	<1	ppb
6/4/2014	1,1,1-Trichloroethane	<1	ppb
6/4/2014	1,1,2,2-Tetrachlorethene	<1	ppb
6/4/2014	1,1,2-Trichloroethane	<1	ppb
6/4/2014	1,1-Dichloroethane	<1	ppb
6/4/2014	1,1-Dichloroethene	<1	ppb
6/4/2014	1,2-dichlorobenzene	<1	ppb
6/4/2014	1,2-Dichloroethane	<1	ppb
6/4/2014	1,2-Dichloropropane	<1	ppb
6/4/2014	1,3-dichlorobenzene	<1	ppb
6/4/2014	1,4-dichlorobenzene	<1	ppb
6/4/2014	2-Chloroethylvinylether	<2	ppb
6/4/2014	Benzene	<1	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
6/3/2014	Bromodichloromethane	<1	ppb
6/3/2014	Bromoform	<1	ppb
6/3/2014	Bromomethane	<10	ppb
6/3/2014	Carbon Tetrachloride	<1	ppb
6/3/2014	Chlorobenzene	<1	ppb
6/3/2014	Chloroethane	<10	ppb
6/3/2014	Chloroform	7	ppb
6/3/2014	Chloromethane	<10	ppb
6/3/2014	cis-1,3-Dichloropropene	<1	ppb
6/3/2014	Dibromochloromethane	<1	ppb
6/3/2014	Ethylbenzene	<1	ppb
6/3/2014	Methylene Chloride	<5	ppb
6/3/2014	o- xylene	<1	ppb
6/3/2014	p&m xylene	<1	ppb
6/3/2014	Tetrachlorethene	2	ppb
6/3/2014	Toluene	2	ppb
6/3/2014	Trans-1,2-Dichloroethene	<1	ppb
6/3/2014	Trans-1,3-Dichloropropene	<1	ppb
6/3/2014	Trichlorethene	3	ppb
6/3/2014	Trichlorofluoromethane	<1	ppb
6/3/2014	Vinyl Chloride	<1	ppb
7/8/2014	1,1,1-Trichloroethane	<1	ppb
7/8/2014	1,1,2,2-Tetrachlorethene	<1	ppb
7/8/2014	1,1,2-Trichloroethane	<1	ppb
7/8/2014	1,1-Dichloroethane	<1	ppb
7/8/2014	1,1-Dichloroethene	<1	ppb
7/8/2014	1,2-dichlorobenzene	<1	ppb
7/8/2014	1,2-Dichloroethane	<1	ppb
7/8/2014	1,2-Dichloropropane	<1	ppb
7/8/2014	1,3-dichlorobenzene	<1	ppb
7/8/2014	1,4-dichlorobenzene	<1	ppb
7/8/2014	2-Chloroethylvinylether	<2	ppb
7/8/2014	Benzene	<1	ppb
7/8/2014	Bromodichloromethane	<1	ppb
7/8/2014	Bromoform	<1	ppb
7/8/2014	Bromomethane	<10	ppb
7/8/2014	Carbon Tetrachloride	<1	ppb
7/8/2014	Chlorobenzene	<1	ppb
7/8/2014	Chloroethane	<10	ppb
7/8/2014	Chloroform	6	ppb
7/8/2014	Chloromethane	<10	ppb
7/8/2014	cis-1,3-Dichloropropene	<1	ppb
7/8/2014	Dibromochloromethane	<1	ppb
7/8/2014	Ethylbenzene	<1	ppb
7/8/2014	Methylene Chloride	<5	ppb
7/8/2014	o- xylene	<1	ppb
7/8/2014	p&m xylene	<1	ppb
7/8/2014	Tetrachlorethene	2	ppb
7/8/2014	Toluene	2	ppb
7/8/2014	Trans-1,2-Dichloroethene	<1	ppb
7/8/2014	Trans-1,3-Dichloropropene	<1	ppb
7/8/2014	Trichlorethene	2	ppb
7/8/2014	Trichlorofluoromethane	<1	ppb
7/8/2014	Vinyl Chloride	<1	ppb
8/5/2014	1,1,1-Trichloroethane	<1	ppb
8/5/2014	1,1,2,2-Tetrachlorethene	<1	ppb
8/5/2014	1,1,2-Trichloroethane	<1	ppb
8/5/2014	1,1-Dichloroethane	<1	ppb
8/5/2014	1,1-Dichloroethene	<1	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
6/4/2014	Bromodichloromethane	11	ppb
6/4/2014	Bromoform	4	ppb
6/4/2014	Bromomethane	<10	ppb
6/4/2014	Carbon Tetrachloride	<1	ppb
6/4/2014	Chlorobenzene	<1	ppb
6/4/2014	Chloroethane	<10	ppb
6/4/2014	Chloroform	5	ppb
6/4/2014	Chloromethane	<10	ppb
6/4/2014	cis-1,3-Dichloropropene	<1	ppb
6/4/2014	Dibromochloromethane	13	ppb
6/4/2014	Ethylbenzene	<1	ppb
6/4/2014	Methylene Chloride	<5	ppb
6/4/2014	o- xylene	<1	ppb
6/4/2014	p&m xylene	<1	ppb
6/4/2014	Tetrachlorethene	<1	ppb
6/4/2014	Toluene	<1	ppb
6/4/2014	Trans-1,2-Dichloroethene	<1	ppb
6/4/2014	Trans-1,3-Dichloropropene	<1	ppb
6/4/2014	Trichlorethene	<1	ppb
6/4/2014	Trichlorofluoromethane	<1	ppb
6/4/2014	Vinyl Chloride	<1	ppb
7/9/2014	1,1,1-Trichloroethane	<1	ppb
7/9/2014	1,1,2,2-Tetrachlorethene	<1	ppb
7/9/2014	1,1,2-Trichloroethane	<1	ppb
7/9/2014	1,1-Dichloroethane	<1	ppb
7/9/2014	1,1-Dichloroethene	<1	ppb
7/9/2014	1,2-dichlorobenzene	<1	ppb
7/9/2014	1,2-Dichloroethane	<1	ppb
7/9/2014	1,2-Dichloropropane	<1	ppb
7/9/2014	1,3-dichlorobenzene	<1	ppb
7/9/2014	1,4-dichlorobenzene	<1	ppb
7/9/2014	2-Chloroethylvinylether	<2	ppb
7/9/2014	Benzene	<1	ppb
7/9/2014	Bromodichloromethane	9	ppb
7/9/2014	Bromoform	11	ppb
7/9/2014	Bromomethane	<10	ppb
7/9/2014	Carbon Tetrachloride	<1	ppb
7/9/2014	Chlorobenzene	<1	ppb
7/9/2014	Chloroethane	<10	ppb
7/9/2014	Chloroform	3	ppb
7/9/2014	Chloromethane	<10	ppb
7/9/2014	cis-1,3-Dichloropropene	<1	ppb
7/9/2014	Dibromochloromethane	17	ppb
7/9/2014	Ethylbenzene	<1	ppb
7/9/2014	Methylene Chloride	<5	ppb
7/9/2014	o- xylene	<1	ppb
7/9/2014	p&m xylene	<1	ppb
7/9/2014	Tetrachlorethene	<1	ppb
7/9/2014	Toluene	<1	ppb
7/9/2014	Trans-1,2-Dichloroethene	<1	ppb
7/9/2014	Trans-1,3-Dichloropropene	<1	ppb
7/9/2014	Trichlorethene	<1	ppb
7/9/2014	Trichlorofluoromethane	<1	ppb
7/9/2014	Vinyl Chloride	<1	ppb
8/6/2014	1,1,1-Trichloroethane	<1	ppb
8/6/2014	1,1,2,2-Tetrachlorethene	<1	ppb
8/6/2014	1,1,2-Trichloroethane	<1	ppb
8/6/2014	1,1-Dichloroethane	<1	ppb
8/6/2014	1,1-Dichloroethene	<1	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
8/5/2014	1,2-dichlorobenzene	<1	ppb
8/5/2014	1,2-Dichloroethane	<1	ppb
8/5/2014	1,2-Dichloropropane	<1	ppb
8/5/2014	1,3-dichlorobenzene	<1	ppb
8/5/2014	1,4-dichlorobenzene	<1	ppb
8/5/2014	2-Chloroethylvinylether	<2	ppb
8/5/2014	Benzene	<1	ppb
8/5/2014	Bromodichloromethane	<1	ppb
8/5/2014	Bromoform	<1	ppb
8/5/2014	Bromomethane	<10	ppb
8/5/2014	Carbon Tetrachloride	<1	ppb
8/5/2014	Chlorobenzene	<1	ppb
8/5/2014	Chloroethane	<10	ppb
8/5/2014	Chloroform	6	ppb
8/5/2014	Chloromethane	<10	ppb
8/5/2014	cis-1,3-Dichloropropene	<1	ppb
8/5/2014	Dibromochloromethane	<1	ppb
8/5/2014	Ethylbenzene	2	ppb
8/5/2014	Methylene Chloride	<5	ppb
8/5/2014	o- xylene	<1	ppb
8/5/2014	p&m xylene	<1	ppb
8/5/2014	Tetrachlorethene	1	ppb
8/5/2014	Toluene	<1	ppb
8/5/2014	Trans-1,2-Dichloroethene	<1	ppb
8/5/2014	Trans-1,3-Dichloropropene	<1	ppb
8/5/2014	Trichlorethene	1	ppb
8/5/2014	Trichlorofluoromethane	<1	ppb
8/5/2014	Vinyl Chloride	<1	ppb
9/9/2014	1,1,1-Trichloroethane	<1	ppb
9/9/2014	1,1,2,2-Tetrachlorethene	<1	ppb
9/9/2014	1,1,2-Trichloroethane	<1	ppb
9/9/2014	1,1-Dichloroethane	<1	ppb
9/9/2014	1,1-Dichloroethene	<1	ppb
9/9/2014	1,2-dichlorobenzene	<1	ppb
9/9/2014	1,2-Dichloroethane	<1	ppb
9/9/2014	1,2-Dichloropropane	<1	ppb
9/9/2014	1,3-dichlorobenzene	<1	ppb
9/9/2014	1,4-dichlorobenzene	<1	ppb
9/9/2014	2-Chloroethylvinylether	<2	ppb
9/9/2014	Benzene	<1	ppb
9/9/2014	Bromodichloromethane	<1	ppb
9/9/2014	Bromoform	<1	ppb
9/9/2014	Bromomethane	<10	ppb
9/9/2014	Carbon Tetrachloride	<1	ppb
9/9/2014	Chlorobenzene	<1	ppb
9/9/2014	Chloroethane	<10	ppb
9/9/2014	Chloroform	4	ppb
9/9/2014	Chloromethane	<10	ppb
9/9/2014	cis-1,3-Dichloropropene	<1	ppb
9/9/2014	Dibromochloromethane	<1	ppb
9/9/2014	Ethylbenzene	<1	ppb
9/9/2014	Methylene Chloride	<5	ppb
9/9/2014	o- xylene	<1	ppb
9/9/2014	p&m xylene	<1	ppb
9/9/2014	Tetrachlorethene	1	ppb
9/9/2014	Toluene	3	ppb
9/9/2014	Trans-1,2-Dichloroethene	<1	ppb
9/9/2014	Trans-1,3-Dichloropropene	<1	ppb
9/9/2014	Trichlorethene	1	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
8/6/2014	1,2-dichlorobenzene	<1	ppb
8/6/2014	1,2-Dichloroethane	<1	ppb
8/6/2014	1,2-Dichloropropane	<1	ppb
8/6/2014	1,3-dichlorobenzene	<1	ppb
8/6/2014	1,4-dichlorobenzene	<1	ppb
8/6/2014	2-Chloroethylvinylether	<2	ppb
8/6/2014	Benzene	<1	ppb
8/6/2014	Bromodichloromethane	9	ppb
8/6/2014	Bromoform	15	ppb
8/6/2014	Bromomethane	<10	ppb
8/6/2014	Carbon Tetrachloride	<1	ppb
8/6/2014	Chlorobenzene	<1	ppb
8/6/2014	Chloroethane	<10	ppb
8/6/2014	Chloroform	3	ppb
8/6/2014	Chloromethane	<10	ppb
8/6/2014	cis-1,3-Dichloropropene	<1	ppb
8/6/2014	Dibromochloromethane	18	ppb
8/6/2014	Ethylbenzene	<1	ppb
8/6/2014	Methylene Chloride	<5	ppb
8/6/2014	o- xylene	<1	ppb
8/6/2014	p&m xylene	<1	ppb
8/6/2014	Tetrachlorethene	<1	ppb
8/6/2014	Toluene	<1	ppb
8/6/2014	Trans-1,2-Dichloroethene	<1	ppb
8/6/2014	Trans-1,3-Dichloropropene	<1	ppb
8/6/2014	Trichlorethene	<1	ppb
8/6/2014	Trichlorofluoromethane	<1	ppb
8/6/2014	Vinyl Chloride	<1	ppb
9/10/2014	1,1,1-Trichloroethane	<1	ppb
9/10/2014	1,1,2,2-Tetrachlorethene	<1	ppb
9/10/2014	1,1,2-Trichloroethane	<1	ppb
9/10/2014	1,1-Dichloroethane	<1	ppb
9/10/2014	1,1-Dichloroethene	<1	ppb
9/10/2014	1,2-dichlorobenzene	<1	ppb
9/10/2014	1,2-Dichloroethane	<1	ppb
9/10/2014	1,2-Dichloropropane	<1	ppb
9/10/2014	1,3-dichlorobenzene	<1	ppb
9/10/2014	1,4-dichlorobenzene	<1	ppb
9/10/2014	2-Chloroethylvinylether	<2	ppb
9/10/2014	Benzene	<1	ppb
9/10/2014	Bromodichloromethane	1	ppb
9/10/2014	Bromoform	2	ppb
9/10/2014	Bromomethane	<10	ppb
9/10/2014	Carbon Tetrachloride	<1	ppb
9/10/2014	Chlorobenzene	<1	ppb
9/10/2014	Chloroethane	<10	ppb
9/10/2014	Chloroform	1	ppb
9/10/2014	Chloromethane	<10	ppb
9/10/2014	cis-1,3-Dichloropropene	<1	ppb
9/10/2014	Dibromochloromethane	2	ppb
9/10/2014	Ethylbenzene	<1	ppb
9/10/2014	Methylene Chloride	<5	ppb
9/10/2014	o- xylene	<1	ppb
9/10/2014	p&m xylene	<1	ppb
9/10/2014	Tetrachlorethene	<1	ppb
9/10/2014	Toluene	<1	ppb
9/10/2014	Trans-1,2-Dichloroethene	<1	ppb
9/10/2014	Trans-1,3-Dichloropropene	<1	ppb
9/10/2014	Trichlorethene	<1	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
9/9/2014	Trichlorofluoromethane	<1	ppb
9/9/2014	Vinyl Chloride	<1	ppb
10/7/2014	1,1,1-Trichloroethane	<1	ppb
10/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
10/7/2014	1,1,2-Trichloroethane	<1	ppb
10/7/2014	1,1-Dichloroethane	<1	ppb
10/7/2014	1,1-Dichloroethene	<1	ppb
10/7/2014	1,2-dichlorobenzene	<1	ppb
10/7/2014	1,2-Dichloroethane	<1	ppb
10/7/2014	1,2-Dichloropropane	<1	ppb
10/7/2014	1,3-dichlorobenzene	<1	ppb
10/7/2014	1,4-dichlorobenzene	<1	ppb
10/7/2014	2-Chloroethylvinylether	<2	ppb
10/7/2014	Benzene	<1	ppb
10/7/2014	Bromodichloromethane	<1	ppb
10/7/2014	Bromoform	<1	ppb
10/7/2014	Bromomethane	<10	ppb
10/7/2014	Carbon Tetrachloride	<1	ppb
10/7/2014	Chlorobenzene	<1	ppb
10/7/2014	Chloroethane	<10	ppb
10/7/2014	Chloroform	5	ppb
10/7/2014	Chloromethane	<10	ppb
10/7/2014	cis-1,3-Dichloropropene	<1	ppb
10/7/2014	Dibromochloromethane	<1	ppb
10/7/2014	Ethylbenzene	<1	ppb
10/7/2014	Methylene Chloride	<5	ppb
10/7/2014	o- xylene	<1	ppb
10/7/2014	p&m xylene	<1	ppb
10/7/2014	Tetrachlorethene	1	ppb
10/7/2014	Toluene	6	ppb
10/7/2014	Trans-1,2-Dichloroethene	<1	ppb
10/7/2014	Trans-1,3-Dichloropropene	<1	ppb
10/7/2014	Trichlorethene	1	ppb
10/7/2014	Trichlorofluoromethane	<1	ppb
10/7/2014	Vinyl Chloride	<1	ppb
11/18/2014	1,1,1-Trichloroethane	<1	ppb
11/18/2014	1,1,2,2-Tetrachlorethane	<1	ppb
11/18/2014	1,1,2-Trichloroethane	<1	ppb
11/18/2014	1,1-Dichloroethane	<1	ppb
11/18/2014	1,1-Dichloroethene	<1	ppb
11/18/2014	1,2-dichlorobenzene	<1	ppb
11/18/2014	1,2-Dichloroethane	<1	ppb
11/18/2014	1,2-Dichloropropane	<1	ppb
11/18/2014	1,3-dichlorobenzene	<1	ppb
11/18/2014	1,4-dichlorobenzene	<1	ppb
11/18/2014	2-Chloroethylvinylether	<2	ppb
11/18/2014	Benzene	<1	ppb
11/18/2014	Bromodichloromethane	<1	ppb
11/18/2014	Bromoform	<1	ppb
11/18/2014	Bromomethane	<10	ppb
11/18/2014	Carbon Tetrachloride	<1	ppb
11/18/2014	Chlorobenzene	<1	ppb
11/18/2014	Chloroethane	<10	ppb
11/18/2014	Chloroform	2	ppb
11/18/2014	Chloromethane	<10	ppb
11/18/2014	cis-1,3-Dichloropropene	<1	ppb
11/18/2014	Dibromochloromethane	<1	ppb
11/18/2014	Ethylbenzene	<1	ppb
11/18/2014	Methylene Chloride	<5	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
9/10/2014	Trichlorofluoromethane	<1	ppb
9/10/2014	Vinyl Chloride	<1	ppb
10/8/2014	1,1,1-Trichloroethane	<1	ppb
10/8/2014	1,1,2,2-Tetrachlorethane	<1	ppb
10/8/2014	1,1,2-Trichloroethane	<1	ppb
10/8/2014	1,1-Dichloroethane	<1	ppb
10/8/2014	1,1-Dichloroethene	<1	ppb
10/8/2014	1,2-dichlorobenzene	<1	ppb
10/8/2014	1,2-Dichloroethane	<1	ppb
10/8/2014	1,2-Dichloropropane	<1	ppb
10/8/2014	1,3-dichlorobenzene	<1	ppb
10/8/2014	1,4-dichlorobenzene	<1	ppb
10/8/2014	2-Chloroethylvinylether	<2	ppb
10/8/2014	Benzene	<1	ppb
10/8/2014	Bromodichloromethane	8	ppb
10/8/2014	Bromoform	38	ppb
10/8/2014	Bromomethane	<10	ppb
10/8/2014	Carbon Tetrachloride	<1	ppb
10/8/2014	Chlorobenzene	<1	ppb
10/8/2014	Chloroethane	<10	ppb
10/8/2014	Chloroform	2	ppb
10/8/2014	Chloromethane	<10	ppb
10/8/2014	cis-1,3-Dichloropropene	<1	ppb
10/8/2014	Dibromochloromethane	26	ppb
10/8/2014	Ethylbenzene	<1	ppb
10/8/2014	Methylene Chloride	<5	ppb
10/8/2014	o- xylene	<1	ppb
10/8/2014	p&m xylene	<1	ppb
10/8/2014	Tetrachlorethene	<1	ppb
10/8/2014	Toluene	<1	ppb
10/8/2014	Trans-1,2-Dichloroethene	<1	ppb
10/8/2014	Trans-1,3-Dichloropropene	<1	ppb
10/8/2014	Trichlorethene	<1	ppb
10/8/2014	Trichlorofluoromethane	<1	ppb
10/8/2014	Vinyl Chloride	<1	ppb
11/19/2014	1,1,1-Trichloroethane	<1	ppb
11/19/2014	1,1,2,2-Tetrachlorethane	<1	ppb
11/19/2014	1,1,2-Trichloroethane	<1	ppb
11/19/2014	1,1-Dichloroethane	<1	ppb
11/19/2014	1,1-Dichloroethene	<1	ppb
11/19/2014	1,2-dichlorobenzene	<1	ppb
11/19/2014	1,2-Dichloroethane	<1	ppb
11/19/2014	1,2-Dichloropropane	<1	ppb
11/19/2014	1,3-dichlorobenzene	<1	ppb
11/19/2014	1,4-dichlorobenzene	<1	ppb
11/19/2014	2-Chloroethylvinylether	<2	ppb
11/19/2014	Benzene	<1	ppb
11/19/2014	Bromodichloromethane	<1	ppb
11/19/2014	Bromoform	<1	ppb
11/19/2014	Bromomethane	<10	ppb
11/19/2014	Carbon Tetrachloride	<1	ppb
11/19/2014	Chlorobenzene	<1	ppb
11/19/2014	Chloroethane	<10	ppb
11/19/2014	Chloroform	1	ppb
11/19/2014	Chloromethane	<10	ppb
11/19/2014	cis-1,3-Dichloropropene	<1	ppb
11/19/2014	Dibromochloromethane	1	ppb
11/19/2014	Ethylbenzene	<1	ppb
11/19/2014	Methylene Chloride	<5	ppb

Table 24: EPA Priority Pollutants Data Field's Point

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
11/18/2014	o- xylene	<1	ppb
11/18/2014	p&m xylene	<1	ppb
11/18/2014	Tetrachlorethene	<1	ppb
11/18/2014	Toluene	1	ppb
11/18/2014	Trans-1,2-Dichloroethene	<1	ppb
11/18/2014	Trans-1,3-Dichloropropene	<1	ppb
11/18/2014	Trichlorethene	<1	ppb
11/18/2014	Trichlorofluoromethane	<1	ppb
11/18/2014	Vinyl Chloride	<1	ppb
12/2/2014	1,1,1-Trichloroethane	<1	ppb
12/2/2014	1,1,2,2-Tetrachlorethene	<1	ppb
12/2/2014	1,1,2-Trichloroethane	<1	ppb
12/2/2014	1,1-Dichloroethane	<1	ppb
12/2/2014	1,1-Dichloroethene	<1	ppb
12/2/2014	1,2-dichlorobenzene	<1	ppb
12/2/2014	1,2-Dichloroethane	<1	ppb
12/2/2014	1,2-Dichloropropane	<1	ppb
12/2/2014	1,3-dichlorobenzene	<1	ppb
12/2/2014	1,4-dichlorobenzene	<1	ppb
12/2/2014	2-Chloroethylvinylether	<2	ppb
12/2/2014	Benzene	<1	ppb
12/2/2014	Bromodichloromethane	<1	ppb
12/2/2014	Bromoform	<1	ppb
12/2/2014	Bromomethane	<10	ppb
12/2/2014	Carbon Tetrachloride	<1	ppb
12/2/2014	Chlorobenzene	<1	ppb
12/2/2014	Chloroethane	<10	ppb
12/2/2014	Chloroform	4	ppb
12/2/2014	Chloromethane	<10	ppb
12/2/2014	cis-1,3-Dichloropropene	<1	ppb
12/2/2014	Dibromochloromethane	<1	ppb
12/2/2014	Ethylbenzene	<1	ppb
12/2/2014	Methylene Chloride	<5	ppb
12/2/2014	o- xylene	<1	ppb
12/2/2014	p&m xylene	<1	ppb
12/2/2014	Tetrachlorethene	1	ppb
12/2/2014	Toluene	2	ppb
12/2/2014	Trans-1,2-Dichloroethene	<1	ppb
12/2/2014	Trans-1,3-Dichloropropene	<1	ppb
12/2/2014	Trichlorethene	1	ppb
12/2/2014	Trichlorofluoromethane	<1	ppb
12/2/2014	Vinyl Chloride	<1	ppb

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
11/19/2014	o- xylene	<1	ppb
11/19/2014	p&m xylene	<1	ppb
11/19/2014	Tetrachlorethene	<1	ppb
11/19/2014	Toluene	<1	ppb
11/19/2014	Trans-1,2-Dichloroethene	<1	ppb
11/19/2014	Trans-1,3-Dichloropropene	<1	ppb
11/19/2014	Trichlorethene	<1	ppb
11/19/2014	Trichlorofluoromethane	<1	ppb
11/19/2014	Vinyl Chloride	<1	ppb
12/3/2014	1,1,1-Trichloroethane	<1	ppb
12/3/2014	1,1,2,2-Tetrachlorethene	<1	ppb
12/3/2014	1,1,2-Trichloroethane	<1	ppb
12/3/2014	1,1-Dichloroethane	<1	ppb
12/3/2014	1,1-Dichloroethene	<1	ppb
12/3/2014	1,2-dichlorobenzene	<1	ppb
12/3/2014	1,2-Dichloroethane	<1	ppb
12/3/2014	1,2-Dichloropropane	<1	ppb
12/3/2014	1,3-dichlorobenzene	<1	ppb
12/3/2014	1,4-dichlorobenzene	<1	ppb
12/3/2014	2-Chloroethylvinylether	<2	ppb
12/3/2014	Benzene	<1	ppb
12/3/2014	Bromodichloromethane	<1	ppb
12/3/2014	Bromoform	<1	ppb
12/3/2014	Bromomethane	<10	ppb
12/3/2014	Carbon Tetrachloride	<1	ppb
12/3/2014	Chlorobenzene	<1	ppb
12/3/2014	Chloroethane	<10	ppb
12/3/2014	Chloroform	1	ppb
12/3/2014	Chloromethane	<10	ppb
12/3/2014	cis-1,3-Dichloropropene	<1	ppb
12/3/2014	Dibromochloromethane	<1	ppb
12/3/2014	Ethylbenzene	<1	ppb
12/3/2014	Methylene Chloride	<5	ppb
12/3/2014	o- xylene	<1	ppb
12/3/2014	p&m xylene	<1	ppb
12/3/2014	Tetrachlorethene	<1	ppb
12/3/2014	Toluene	<1	ppb
12/3/2014	Trans-1,2-Dichloroethene	<1	ppb
12/3/2014	Trans-1,3-Dichloropropene	<1	ppb
12/3/2014	Trichlorethene	<1	ppb
12/3/2014	Trichlorofluoromethane	<1	ppb
12/3/2014	Vinyl Chloride	<1	ppb

Table 24: EPA Priority Pollutants Data Field's Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2014	1,1,1-Trichloroethane	<1	ppb
1/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
1/7/2014	1,1,2-Trichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethene	<1	ppb
1/7/2014	1,2-dichlorobenzene	<1	ppb
1/7/2014	1,2-Dichloroethane	<1	ppb
1/7/2014	1,2-Dichloropropane	<1	ppb
1/7/2014	1,3-dichlorobenzene	<1	ppb
1/7/2014	1,4-dichlorobenzene	<1	ppb
1/7/2014	2-Chloroethylvinylether	<2	ppb
1/7/2014	Benzene	<1	ppb
1/7/2014	Bromodichloromethane	<1	ppb
1/7/2014	Bromoform	<1	ppb
1/7/2014	Bromomethane	<10	ppb
1/7/2014	Carbon Tetrachloride	<1	ppb
1/7/2014	Chlorobenzene	<1	ppb
1/7/2014	Chloroethane	<10	ppb
1/7/2014	Chloroform	2	ppb
1/7/2014	Chloromethane	<10	ppb
1/7/2014	cis-1,3-Dichloropropene	<1	ppb
1/7/2014	Dibromochloromethane	<1	ppb
1/7/2014	Ethylbenzene	<1	ppb
1/7/2014	Methylene Chloride	<5	ppb
1/7/2014	o- xylene	<1	ppb
1/7/2014	p&m xylene	<1	ppb
1/7/2014	Tetrachlorethene	<1	ppb
1/7/2014	Toluene	4	ppb
1/7/2014	Trans-1,2-Dichloroethene	<1	ppb
1/7/2014	Trans-1,3-Dichloropropene	<1	ppb
1/7/2014	Trichlorethene	<1	ppb
1/7/2014	Trichlorofluoromethane	<1	ppb
1/7/2014	Vinyl Chloride	<1	ppb
2/4/2014	1,1,1-Trichloroethane	<1	ppb
2/4/2014	1,1,2,2-Tetrachlorethane	<1	ppb
2/4/2014	1,1,2-Trichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethene	<1	ppb
2/4/2014	1,2-dichlorobenzene	<1	ppb
2/4/2014	1,2-Dichloroethane	<1	ppb
2/4/2014	1,2-Dichloropropane	<1	ppb
2/4/2014	1,3-dichlorobenzene	<1	ppb
2/4/2014	1,4-dichlorobenzene	<1	ppb
2/4/2014	2-Chloroethylvinylether	<2	ppb
2/4/2014	Benzene	<1	ppb
2/4/2014	Bromodichloromethane	<1	ppb
2/4/2014	Bromoform	<1	ppb
2/4/2014	Bromomethane	<10	ppb
2/4/2014	Carbon Tetrachloride	<1	ppb
2/4/2014	Chlorobenzene	<1	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2014	1,1,1-Trichloroethane	<1	ppb
1/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
1/7/2014	1,1,2-Trichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethane	<1	ppb
1/7/2014	1,1-Dichloroethene	<1	ppb
1/7/2014	1,2-dichlorobenzene	<1	ppb
1/7/2014	1,2-Dichloroethane	<1	ppb
1/7/2014	1,2-Dichloropropane	<1	ppb
1/7/2014	1,3-dichlorobenzene	<1	ppb
1/7/2014	1,4-dichlorobenzene	<1	ppb
1/7/2014	2-Chloroethylvinylether	<2	ppb
1/7/2014	Benzene	<1	ppb
1/7/2014	Bromodichloromethane	<1	ppb
1/7/2014	Bromoform	<1	ppb
1/7/2014	Bromomethane	<10	ppb
1/7/2014	Carbon Tetrachloride	<1	ppb
1/7/2014	Chlorobenzene	<1	ppb
1/7/2014	Chloroethane	<10	ppb
1/7/2014	Chloroform	1	ppb
1/7/2014	Chloromethane	<10	ppb
1/7/2014	cis-1,3-Dichloropropene	<1	ppb
1/7/2014	Dibromochloromethane	<1	ppb
1/7/2014	Ethylbenzene	<1	ppb
1/7/2014	Methylene Chloride	<5	ppb
1/7/2014	o- xylene	<1	ppb
1/7/2014	p&m xylene	<1	ppb
1/7/2014	Tetrachlorethene	<1	ppb
1/7/2014	Toluene	<1	ppb
1/7/2014	Trans-1,2-Dichloroethene	<1	ppb
1/7/2014	Trans-1,3-Dichloropropene	<1	ppb
1/7/2014	Trichlorethene	<1	ppb
1/7/2014	Trichlorofluoromethane	<1	ppb
1/7/2014	Vinyl Chloride	<1	ppb
2/4/2014	1,1,1-Trichloroethane	<1	ppb
2/4/2014	1,1,2,2-Tetrachlorethane	<1	ppb
2/4/2014	1,1,2-Trichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethane	<1	ppb
2/4/2014	1,1-Dichloroethene	<1	ppb
2/4/2014	1,2-dichlorobenzene	<1	ppb
2/4/2014	1,2-Dichloroethane	<1	ppb
2/4/2014	1,2-Dichloropropane	<1	ppb
2/4/2014	1,3-dichlorobenzene	<1	ppb
2/4/2014	1,4-dichlorobenzene	<1	ppb
2/4/2014	2-Chloroethylvinylether	<2	ppb
2/4/2014	Benzene	<1	ppb
2/4/2014	Bromodichloromethane	<1	ppb
2/4/2014	Bromoform	<1	ppb
2/4/2014	Bromomethane	<10	ppb
2/4/2014	Carbon Tetrachloride	<1	ppb
2/4/2014	Chlorobenzene	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point



EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2014	Chloroethane	<10	ppb
2/4/2014	Chloroform	3	ppb
2/4/2014	Chloromethane	<10	ppb
2/4/2014	cis-1,3-Dichloropropene	<1	ppb
2/4/2014	Dibromochloromethane	<1	ppb
2/4/2014	Ethylbenzene	<1	ppb
2/4/2014	Methylene Chloride	<5	ppb
2/4/2014	o- xylene	<1	ppb
2/4/2014	p&m xylene	1	ppb
2/4/2014	Tetrachlorethene	2	ppb
2/4/2014	Toluene	4	ppb
2/4/2014	Trans-1,2-Dichloroethene	<1	ppb
2/4/2014	Trans-1,3-Dichloropropene	<1	ppb
2/4/2014	Trichlorethene	<1	ppb
2/4/2014	Trichlorofluoromethane	<1	ppb
2/4/2014	Vinyl Chloride	<1	ppb
3/4/2014	1,1,1-Trichloroethane	<1	ppb
3/4/2014	1,1,2,2-Tetrachlorethene	<1	ppb
3/4/2014	1,1,2-Trichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethene	<1	ppb
3/4/2014	1,2-dichlorobenzene	<1	ppb
3/4/2014	1,2-Dichloroethane	<1	ppb
3/4/2014	1,2-Dichloropropane	<1	ppb
3/4/2014	1,3-dichlorobenzene	<1	ppb
3/4/2014	1,4-dichlorobenzene	<1	ppb
3/4/2014	2-Chloroethylvinylether	<2	ppb
3/4/2014	Benzene	<1	ppb
3/4/2014	Bromodichloromethane	<1	ppb
3/4/2014	Bromoform	<1	ppb
3/4/2014	Bromomethane	<10	ppb
3/4/2014	Carbon Tetrachloride	<1	ppb
3/4/2014	Chlorobenzene	<1	ppb
3/4/2014	Chloroethane	<10	ppb
3/4/2014	Chloroform	3	ppb
3/4/2014	Chloromethane	<10	ppb
3/4/2014	cis-1,3-Dichloropropene	<1	ppb
3/4/2014	Dibromochloromethane	<1	ppb
3/4/2014	Ethylbenzene	<1	ppb
3/4/2014	Methylene Chloride	<5	ppb
3/4/2014	o- xylene	<1	ppb
3/4/2014	p&m xylene	<1	ppb
3/4/2014	Tetrachlorethene	<1	ppb
3/4/2014	Toluene	2	ppb
3/4/2014	Trans-1,2-Dichloroethene	<1	ppb
3/4/2014	Trans-1,3-Dichloropropene	<1	ppb
3/4/2014	Trichlorethene	<1	ppb
3/4/2014	Trichlorofluoromethane	<1	ppb
3/4/2014	Vinyl Chloride	<1	ppb
4/7/2014	1,1,1-Trichloroethane	<1	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2014	Chloroethane	<10	ppb
2/4/2014	Chloroform	<1	ppb
2/4/2014	Chloromethane	<10	ppb
2/4/2014	cis-1,3-Dichloropropene	<1	ppb
2/4/2014	Dibromochloromethane	<1	ppb
2/4/2014	Ethylbenzene	<1	ppb
2/4/2014	Methylene Chloride	<5	ppb
2/4/2014	o- xylene	<1	ppb
2/4/2014	p&m xylene	<1	ppb
2/4/2014	Tetrachlorethene	<1	ppb
2/4/2014	Toluene	<1	ppb
2/4/2014	Trans-1,2-Dichloroethene	<1	ppb
2/4/2014	Trans-1,3-Dichloropropene	<1	ppb
2/4/2014	Trichlorethene	<1	ppb
2/4/2014	Trichlorofluoromethane	<1	ppb
2/4/2014	Vinyl Chloride	<1	ppb
3/4/2014	1,1,1-Trichloroethane	<1	ppb
3/4/2014	1,1,2,2-Tetrachlorethene	<1	ppb
3/4/2014	1,1,2-Trichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethane	<1	ppb
3/4/2014	1,1-Dichloroethene	<1	ppb
3/4/2014	1,2-dichlorobenzene	<1	ppb
3/4/2014	1,2-Dichloroethane	<1	ppb
3/4/2014	1,2-Dichloropropane	<1	ppb
3/4/2014	1,3-dichlorobenzene	<1	ppb
3/4/2014	1,4-dichlorobenzene	<1	ppb
3/4/2014	2-Chloroethylvinylether	<2	ppb
3/4/2014	Benzene	<1	ppb
3/4/2014	Bromodichloromethane	<1	ppb
3/4/2014	Bromoform	<1	ppb
3/4/2014	Bromomethane	<10	ppb
3/4/2014	Carbon Tetrachloride	<1	ppb
3/4/2014	Chlorobenzene	<1	ppb
3/4/2014	Chloroethane	<10	ppb
3/4/2014	Chloroform	<1	ppb
3/4/2014	Chloromethane	<10	ppb
3/4/2014	cis-1,3-Dichloropropene	<1	ppb
3/4/2014	Dibromochloromethane	<1	ppb
3/4/2014	Ethylbenzene	<1	ppb
3/4/2014	Methylene Chloride	<5	ppb
3/4/2014	o- xylene	<1	ppb
3/4/2014	p&m xylene	<1	ppb
3/4/2014	Tetrachlorethene	<1	ppb
3/4/2014	Toluene	<1	ppb
3/4/2014	Trans-1,2-Dichloroethene	<1	ppb
3/4/2014	Trans-1,3-Dichloropropene	<1	ppb
3/4/2014	Trichlorethene	<1	ppb
3/4/2014	Trichlorofluoromethane	<1	ppb
3/4/2014	Vinyl Chloride	<1	ppb
4/8/2014	1,1,1-Trichloroethane	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
4/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
4/7/2014	1,1,2-Trichloroethane	<1	ppb
4/7/2014	1,1-Dichloroethane	<1	ppb
4/7/2014	1,1-Dichloroethene	<1	ppb
4/7/2014	1,2-dichlorobenzene	<1	ppb
4/7/2014	1,2-Dichloroethane	<1	ppb
4/7/2014	1,2-Dichloropropane	<1	ppb
4/7/2014	1,3-dichlorobenzene	<1	ppb
4/7/2014	1,4-dichlorobenzene	<1	ppb
4/7/2014	2-Chloroethylvinylether	<2	ppb
4/7/2014	Benzene	<1	ppb
4/7/2014	Bromodichloromethane	<1	ppb
4/7/2014	Bromoform	<1	ppb
4/7/2014	Bromomethane	<10	ppb
4/7/2014	Carbon Tetrachloride	<1	ppb
4/7/2014	Chlorobenzene	<1	ppb
4/7/2014	Chloroethane	<10	ppb
4/7/2014	Chloroform	4	ppb
4/7/2014	Chloromethane	<10	ppb
4/7/2014	cis-1,3-Dichloropropene	<1	ppb
4/7/2014	Dibromochloromethane	<1	ppb
4/7/2014	Ethylbenzene	<1	ppb
4/7/2014	Methylene Chloride	<5	ppb
4/7/2014	o- xylene	<1	ppb
4/7/2014	p&m xylene	1	ppb
4/7/2014	Tetrachlorethane	1	ppb
4/7/2014	Toluene	2	ppb
4/7/2014	Trans-1,2-Dichloroethene	<1	ppb
4/7/2014	Trans-1,3-Dichloropropene	<1	ppb
4/7/2014	Trichlorethane	1	ppb
4/7/2014	Trichlorofluoromethane	<1	ppb
4/7/2014	Vinyl Chloride	<1	ppb
5/5/2014	1,1,1-Trichloroethane	<1	ppb
5/5/2014	1,1,2,2-Tetrachlorethane	<1	ppb
5/5/2014	1,1,2-Trichloroethane	<1	ppb
5/5/2014	1,1-Dichloroethane	<1	ppb
5/5/2014	1,1-Dichloroethene	<1	ppb
5/5/2014	1,2-dichlorobenzene	<1	ppb
5/5/2014	1,2-Dichloroethane	<1	ppb
5/5/2014	1,2-Dichloropropane	<1	ppb
5/5/2014	1,3-dichlorobenzene	<1	ppb
5/5/2014	1,4-dichlorobenzene	<1	ppb
5/5/2014	2-Chloroethylvinylether	<2	ppb
5/5/2014	Benzene	<1	ppb
5/5/2014	Bromodichloromethane	<1	ppb
5/5/2014	Bromoform	<1	ppb
5/5/2014	Bromomethane	<10	ppb
5/5/2014	Carbon Tetrachloride	<1	ppb
5/5/2014	Chlorobenzene	<1	ppb
5/5/2014	Chloroethane	<10	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
4/8/2014	1,1,2,2-Tetrachlorethane	<1	ppb
4/8/2014	1,1,2-Trichloroethane	<1	ppb
4/8/2014	1,1-Dichloroethane	<1	ppb
4/8/2014	1,1-Dichloroethene	<1	ppb
4/8/2014	1,2-dichlorobenzene	<1	ppb
4/8/2014	1,2-Dichloroethane	<1	ppb
4/8/2014	1,2-Dichloropropane	<1	ppb
4/8/2014	1,3-dichlorobenzene	<1	ppb
4/8/2014	1,4-dichlorobenzene	<1	ppb
4/8/2014	2-Chloroethylvinylether	<2	ppb
4/8/2014	Benzene	<1	ppb
4/8/2014	Bromodichloromethane	<1	ppb
4/8/2014	Bromoform	<1	ppb
4/8/2014	Bromomethane	<10	ppb
4/8/2014	Carbon Tetrachloride	<1	ppb
4/8/2014	Chlorobenzene	<1	ppb
4/8/2014	Chloroethane	<10	ppb
4/8/2014	Chloroform	<1	ppb
4/8/2014	Chloromethane	<10	ppb
4/8/2014	cis-1,3-Dichloropropene	<1	ppb
4/8/2014	Dibromochloromethane	<1	ppb
4/8/2014	Ethylbenzene	<1	ppb
4/8/2014	Methylene Chloride	<5	ppb
4/8/2014	o- xylene	<1	ppb
4/8/2014	p&m xylene	<1	ppb
4/8/2014	Tetrachlorethane	<1	ppb
4/8/2014	Toluene	<1	ppb
4/8/2014	Trans-1,2-Dichloroethene	<1	ppb
4/8/2014	Trans-1,3-Dichloropropene	<1	ppb
4/8/2014	Trichlorethane	<1	ppb
4/8/2014	Trichlorofluoromethane	<1	ppb
4/8/2014	Vinyl Chloride	<1	ppb
5/6/2014	1,1,1-Trichloroethane	<1	ppb
5/6/2014	1,1,2,2-Tetrachlorethane	<1	ppb
5/6/2014	1,1,2-Trichloroethane	<1	ppb
5/6/2014	1,1-Dichloroethane	<1	ppb
5/6/2014	1,1-Dichloroethene	<1	ppb
5/6/2014	1,2-dichlorobenzene	<1	ppb
5/6/2014	1,2-Dichloroethane	<1	ppb
5/6/2014	1,2-Dichloropropane	<1	ppb
5/6/2014	1,3-dichlorobenzene	<1	ppb
5/6/2014	1,4-dichlorobenzene	<1	ppb
5/6/2014	2-Chloroethylvinylether	<2	ppb
5/6/2014	Benzene	<1	ppb
5/6/2014	Bromodichloromethane	<1	ppb
5/6/2014	Bromoform	<1	ppb
5/6/2014	Bromomethane	<10	ppb
5/6/2014	Carbon Tetrachloride	<1	ppb
5/6/2014	Chlorobenzene	<1	ppb
5/6/2014	Chloroethane	<10	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
5/5/2014	Chloroform	3	ppb
5/5/2014	Chloromethane	<10	ppb
5/5/2014	cis-1,3-Dichloropropene	<1	ppb
5/5/2014	Dibromochloromethane	<1	ppb
5/5/2014	Ethylbenzene	<1	ppb
5/5/2014	Methylene Chloride	<5	ppb
5/5/2014	o- xylene	<1	ppb
5/5/2014	p&m xylene	1	ppb
5/5/2014	Tetrachlorethene	1	ppb
5/5/2014	Toluene	3	ppb
5/5/2014	Trans-1,2-Dichloroethene	<1	ppb
5/5/2014	Trans-1,3-Dichloropropene	<1	ppb
5/5/2014	Trichlorethene	<1	ppb
5/5/2014	Trichlorofluoromethane	<1	ppb
5/5/2014	Vinyl Chloride	<1	ppb
6/2/2014	1,1,1-Trichloroethane	<1	ppb
6/2/2014	1,1,2,2-Tetrachlorethene	<1	ppb
6/2/2014	1,1,2-Trichloroethane	<1	ppb
6/2/2014	1,1-Dichloroethane	<1	ppb
6/2/2014	1,1-Dichloroethene	<1	ppb
6/2/2014	1,2-dichlorobenzene	<1	ppb
6/2/2014	1,2-Dichloroethane	<1	ppb
6/2/2014	1,2-Dichloropropane	<1	ppb
6/2/2014	1,3-dichlorobenzene	<1	ppb
6/2/2014	1,4-dichlorobenzene	<1	ppb
6/2/2014	2-Chloroethylvinylether	<2	ppb
6/2/2014	Benzene	<1	ppb
6/2/2014	Bromodichloromethane	<1	ppb
6/2/2014	Bromoform	<1	ppb
6/2/2014	Bromomethane	<10	ppb
6/2/2014	Carbon Tetrachloride	<1	ppb
6/2/2014	Chlorobenzene	<1	ppb
6/2/2014	Chloroethane	<10	ppb
6/2/2014	Chloroform	6	ppb
6/2/2014	Chloromethane	<10	ppb
6/2/2014	cis-1,3-Dichloropropene	<1	ppb
6/2/2014	Dibromochloromethane	<1	ppb
6/2/2014	Ethylbenzene	<1	ppb
6/2/2014	Methylene Chloride	<5	ppb
6/2/2014	o- xylene	<1	ppb
6/2/2014	p&m xylene	<1	ppb
6/2/2014	Tetrachlorethene	2	ppb
6/2/2014	Toluene	5	ppb
6/2/2014	Trans-1,2-Dichloroethene	<1	ppb
6/2/2014	Trans-1,3-Dichloropropene	<1	ppb
6/2/2014	Trichlorethene	<1	ppb
6/2/2014	Trichlorofluoromethane	<1	ppb
6/2/2014	Vinyl Chloride	<1	ppb
7/7/2014	1,1,1-Trichloroethane	<1	ppb
7/7/2014	1,1,2,2-Tetrachlorethene	<1	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
5/6/2014	Chloroform	<1	ppb
5/6/2014	Chloromethane	<10	ppb
5/6/2014	cis-1,3-Dichloropropene	<1	ppb
5/6/2014	Dibromochloromethane	<1	ppb
5/6/2014	Ethylbenzene	<1	ppb
5/6/2014	Methylene Chloride	<5	ppb
5/6/2014	o- xylene	<1	ppb
5/6/2014	p&m xylene	<1	ppb
5/6/2014	Tetrachlorethene	<1	ppb
5/6/2014	Toluene	<1	ppb
5/6/2014	Trans-1,2-Dichloroethene	<1	ppb
5/6/2014	Trans-1,3-Dichloropropene	<1	ppb
5/6/2014	Trichlorethene	<1	ppb
5/6/2014	Trichlorofluoromethane	<1	ppb
5/6/2014	Vinyl Chloride	<1	ppb
6/3/2014	1,1,1-Trichloroethane	<1	ppb
6/3/2014	1,1,2,2-Tetrachlorethene	<1	ppb
6/3/2014	1,1,2-Trichloroethane	<1	ppb
6/3/2014	1,1-Dichloroethane	<1	ppb
6/3/2014	1,1-Dichloroethene	<1	ppb
6/3/2014	1,2-dichlorobenzene	<1	ppb
6/3/2014	1,2-Dichloroethane	<1	ppb
6/3/2014	1,2-Dichloropropane	<1	ppb
6/3/2014	1,3-dichlorobenzene	<1	ppb
6/3/2014	1,4-dichlorobenzene	<1	ppb
6/3/2014	2-Chloroethylvinylether	<2	ppb
6/3/2014	Benzene	<1	ppb
6/3/2014	Bromodichloromethane	<1	ppb
6/3/2014	Bromoform	<1	ppb
6/3/2014	Bromomethane	<10	ppb
6/3/2014	Carbon Tetrachloride	<1	ppb
6/3/2014	Chlorobenzene	<1	ppb
6/3/2014	Chloroethane	<10	ppb
6/3/2014	Chloroform	2	ppb
6/3/2014	Chloromethane	<10	ppb
6/3/2014	cis-1,3-Dichloropropene	<1	ppb
6/3/2014	Dibromochloromethane	<1	ppb
6/3/2014	Ethylbenzene	<1	ppb
6/3/2014	Methylene Chloride	<5	ppb
6/3/2014	o- xylene	<1	ppb
6/3/2014	p&m xylene	<1	ppb
6/3/2014	Tetrachlorethene	<1	ppb
6/3/2014	Toluene	<1	ppb
6/3/2014	Trans-1,2-Dichloroethene	<1	ppb
6/3/2014	Trans-1,3-Dichloropropene	<1	ppb
6/3/2014	Trichlorethene	<1	ppb
6/3/2014	Trichlorofluoromethane	<1	ppb
6/3/2014	Vinyl Chloride	<1	ppb
7/8/2014	1,1,1-Trichloroethane	<1	ppb
7/8/2014	1,1,2,2-Tetrachlorethene	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
7/7/2014	1,1,2-Trichloroethane	<1	ppb
7/7/2014	1,1-Dichloroethane	<1	ppb
7/7/2014	1,1-Dichloroethene	<1	ppb
7/7/2014	1,2-dichlorobenzene	<1	ppb
7/7/2014	1,2-Dichloroethane	<1	ppb
7/7/2014	1,2-Dichloropropane	<1	ppb
7/7/2014	1,3-dichlorobenzene	<1	ppb
7/7/2014	1,4-dichlorobenzene	<1	ppb
7/7/2014	2-Chloroethylvinylether	<2	ppb
7/7/2014	Benzene	<1	ppb
7/7/2014	Bromodichloromethane	<1	ppb
7/7/2014	Bromoform	<1	ppb
7/7/2014	Bromomethane	<10	ppb
7/7/2014	Carbon Tetrachloride	<1	ppb
7/7/2014	Chlorobenzene	<1	ppb
7/7/2014	Chloroethane	<10	ppb
7/7/2014	Chloroform	4	ppb
7/7/2014	Chloromethane	<10	ppb
7/7/2014	cis-1,3-Dichloropropene	<1	ppb
7/7/2014	Dibromochloromethane	<1	ppb
7/7/2014	Ethylbenzene	<1	ppb
7/7/2014	Methylene Chloride	<5	ppb
7/7/2014	o- xylene	<1	ppb
7/7/2014	p&m xylene	<1	ppb
7/7/2014	Tetrachlorethene	1	ppb
7/7/2014	Toluene	4	ppb
7/7/2014	Trans-1,2-Dichloroethene	<1	ppb
7/7/2014	Trans-1,3-Dichloropropene	<1	ppb
7/7/2014	Trichlorethene	<1	ppb
7/7/2014	Trichlorofluoromethane	<1	ppb
7/7/2014	Vinyl Chloride	<1	ppb
8/4/2014	1,1,1-Trichloroethane	<1	ppb
8/4/2014	1,1,2,2-Tetrachlorethane	<1	ppb
8/4/2014	1,1,2-Trichloroethane	<1	ppb
8/4/2014	1,1-Dichloroethane	<1	ppb
8/4/2014	1,1-Dichloroethene	<1	ppb
8/4/2014	1,2-dichlorobenzene	<1	ppb
8/4/2014	1,2-Dichloroethane	<1	ppb
8/4/2014	1,2-Dichloropropane	<1	ppb
8/4/2014	1,3-dichlorobenzene	<1	ppb
8/4/2014	1,4-dichlorobenzene	<1	ppb
8/4/2014	2-Chloroethylvinylether	<2	ppb
8/4/2014	Benzene	<1	ppb
8/4/2014	Bromodichloromethane	<1	ppb
8/4/2014	Bromoform	<1	ppb
8/4/2014	Bromomethane	<10	ppb
8/4/2014	Carbon Tetrachloride	<1	ppb
8/4/2014	Chlorobenzene	<1	ppb
8/4/2014	Chloroethane	<10	ppb
8/4/2014	Chloroform	4	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
7/8/2014	1,1,2-Trichloroethane	<1	ppb
7/8/2014	1,1-Dichloroethane	<1	ppb
7/8/2014	1,1-Dichloroethene	<1	ppb
7/8/2014	1,2-dichlorobenzene	<1	ppb
7/8/2014	1,2-Dichloroethane	<1	ppb
7/8/2014	1,2-Dichloropropane	<1	ppb
7/8/2014	1,3-dichlorobenzene	<1	ppb
7/8/2014	1,4-dichlorobenzene	<1	ppb
7/8/2014	2-Chloroethylvinylether	<2	ppb
7/8/2014	Benzene	<1	ppb
7/8/2014	Bromodichloromethane	<1	ppb
7/8/2014	Bromoform	<1	ppb
7/8/2014	Bromomethane	<10	ppb
7/8/2014	Carbon Tetrachloride	<1	ppb
7/8/2014	Chlorobenzene	<1	ppb
7/8/2014	Chloroethane	<10	ppb
7/8/2014	Chloroform	<1	ppb
7/8/2014	Chloromethane	<10	ppb
7/8/2014	cis-1,3-Dichloropropene	<1	ppb
7/8/2014	Dibromochloromethane	<1	ppb
7/8/2014	Ethylbenzene	<1	ppb
7/8/2014	Methylene Chloride	<5	ppb
7/8/2014	o- xylene	<1	ppb
7/8/2014	p&m xylene	<1	ppb
7/8/2014	Tetrachlorethene	<1	ppb
7/8/2014	Toluene	<1	ppb
7/8/2014	Trans-1,2-Dichloroethene	<1	ppb
7/8/2014	Trans-1,3-Dichloropropene	<1	ppb
7/8/2014	Trichlorethene	<1	ppb
7/8/2014	Trichlorofluoromethane	<1	ppb
7/8/2014	Vinyl Chloride	<1	ppb
8/5/2014	1,1,1-Trichloroethane	<1	ppb
8/5/2014	1,1,2,2-Tetrachlorethane	<1	ppb
8/5/2014	1,1,2-Trichloroethane	<1	ppb
8/5/2014	1,1-Dichloroethane	<1	ppb
8/5/2014	1,1-Dichloroethene	<1	ppb
8/5/2014	1,2-dichlorobenzene	<1	ppb
8/5/2014	1,2-Dichloroethane	<1	ppb
8/5/2014	1,2-Dichloropropane	<1	ppb
8/5/2014	1,3-dichlorobenzene	<1	ppb
8/5/2014	1,4-dichlorobenzene	<1	ppb
8/5/2014	2-Chloroethylvinylether	<2	ppb
8/5/2014	Benzene	<1	ppb
8/5/2014	Bromodichloromethane	<1	ppb
8/5/2014	Bromoform	<1	ppb
8/5/2014	Bromomethane	<10	ppb
8/5/2014	Carbon Tetrachloride	<1	ppb
8/5/2014	Chlorobenzene	<1	ppb
8/5/2014	Chloroethane	<10	ppb
8/5/2014	Chloroform	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
8/4/2014	Chloromethane	<10	ppb
8/4/2014	cis-1,3-Dichloropropene	<1	ppb
8/4/2014	Dibromochloromethane	<1	ppb
8/4/2014	Ethylbenzene	<1	ppb
8/4/2014	Methylene Chloride	<5	ppb
8/4/2014	o- xylene	<1	ppb
8/4/2014	p&m xylene	<1	ppb
8/4/2014	Tetrachlorethene	1	ppb
8/4/2014	Toluene	4	ppb
8/4/2014	Trans-1,2-Dichloroethene	<1	ppb
8/4/2014	Trans-1,3-Dichloropropene	<1	ppb
8/4/2014	Trichlorethene	<1	ppb
8/4/2014	Trichlorofluoromethane	<1	ppb
8/4/2014	Vinyl Chloride	<1	ppb
9/8/2014	1,1,1-Trichloroethane	<1	ppb
9/8/2014	1,1,2,2-Tetrachlorethane	<1	ppb
9/8/2014	1,1,2-Trichloroethane	<1	ppb
9/8/2014	1,1-Dichloroethane	<1	ppb
9/8/2014	1,1-Dichloroethene	<1	ppb
9/8/2014	1,2-dichlorobenzene	<1	ppb
9/8/2014	1,2-Dichloroethane	<1	ppb
9/8/2014	1,2-Dichloropropane	<1	ppb
9/8/2014	1,3-dichlorobenzene	<1	ppb
9/8/2014	1,4-dichlorobenzene	<1	ppb
9/8/2014	2-Chloroethylvinylether	<2	ppb
9/8/2014	Benzene	<1	ppb
9/8/2014	Bromodichloromethane	<1	ppb
9/8/2014	Bromoform	<1	ppb
9/8/2014	Bromomethane	<10	ppb
9/8/2014	Carbon Tetrachloride	<1	ppb
9/8/2014	Chlorobenzene	<1	ppb
9/8/2014	Chloroethane	<10	ppb
9/8/2014	Chloroform	5	ppb
9/8/2014	Chloromethane	<10	ppb
9/8/2014	cis-1,3-Dichloropropene	<1	ppb
9/8/2014	Dibromochloromethane	<1	ppb
9/8/2014	Ethylbenzene	<1	ppb
9/8/2014	Methylene Chloride	<5	ppb
9/8/2014	o- xylene	<1	ppb
9/8/2014	p&m xylene	<1	ppb
9/8/2014	Tetrachlorethene	1	ppb
9/8/2014	Toluene	3	ppb
9/8/2014	Trans-1,2-Dichloroethene	<1	ppb
9/8/2014	Trans-1,3-Dichloropropene	<1	ppb
9/8/2014	Trichlorethene	<1	ppb
9/8/2014	Trichlorofluoromethane	<1	ppb
9/8/2014	Vinyl Chloride	<1	ppb
10/6/2014	1,1,1-Trichloroethane	<1	ppb
10/6/2014	1,1,2,2-Tetrachlorethane	<1	ppb
10/6/2014	1,1,2-Trichloroethane	<1	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
8/5/2014	Chloromethane	<10	ppb
8/5/2014	cis-1,3-Dichloropropene	<1	ppb
8/5/2014	Dibromochloromethane	<1	ppb
8/5/2014	Ethylbenzene	<1	ppb
8/5/2014	Methylene Chloride	<5	ppb
8/5/2014	o- xylene	<1	ppb
8/5/2014	p&m xylene	<1	ppb
8/5/2014	Tetrachlorethene	<1	ppb
8/5/2014	Toluene	<1	ppb
8/5/2014	Trans-1,2-Dichloroethene	<1	ppb
8/5/2014	Trans-1,3-Dichloropropene	<1	ppb
8/5/2014	Trichlorethene	<1	ppb
8/5/2014	Trichlorofluoromethane	<1	ppb
8/5/2014	Vinyl Chloride	<1	ppb
9/9/2014	1,1,1-Trichloroethane	<1	ppb
9/9/2014	1,1,2,2-Tetrachlorethane	<1	ppb
9/9/2014	1,1,2-Trichloroethane	<1	ppb
9/9/2014	1,1-Dichloroethane	<1	ppb
9/9/2014	1,1-Dichloroethene	<1	ppb
9/9/2014	1,2-dichlorobenzene	<1	ppb
9/9/2014	1,2-Dichloroethane	<1	ppb
9/9/2014	1,2-Dichloropropane	<1	ppb
9/9/2014	1,3-dichlorobenzene	<1	ppb
9/9/2014	1,4-dichlorobenzene	<1	ppb
9/9/2014	2-Chloroethylvinylether	<2	ppb
9/9/2014	Benzene	<1	ppb
9/9/2014	Bromodichloromethane	<1	ppb
9/9/2014	Bromoform	<1	ppb
9/9/2014	Bromomethane	<10	ppb
9/9/2014	Carbon Tetrachloride	<1	ppb
9/9/2014	Chlorobenzene	<1	ppb
9/9/2014	Chloroethane	<10	ppb
9/9/2014	Chloroform	<1	ppb
9/9/2014	Chloromethane	<10	ppb
9/9/2014	cis-1,3-Dichloropropene	<1	ppb
9/9/2014	Dibromochloromethane	<1	ppb
9/9/2014	Ethylbenzene	<1	ppb
9/9/2014	Methylene Chloride	<5	ppb
9/9/2014	o- xylene	<1	ppb
9/9/2014	p&m xylene	<1	ppb
9/9/2014	Tetrachlorethene	<1	ppb
9/9/2014	Toluene	<1	ppb
9/9/2014	Trans-1,2-Dichloroethene	<1	ppb
9/9/2014	Trans-1,3-Dichloropropene	<1	ppb
9/9/2014	Trichlorethene	<1	ppb
9/9/2014	Trichlorofluoromethane	<1	ppb
9/9/2014	Vinyl Chloride	<1	ppb
10/7/2014	1,1,1-Trichloroethane	<1	ppb
10/7/2014	1,1,2,2-Tetrachlorethane	<1	ppb
10/7/2014	1,1,2-Trichloroethane	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
10/6/2014	1,1-Dichloroethane	<1	ppb
10/6/2014	1,1-Dichloroethene	<1	ppb
10/6/2014	1,2-dichlorobenzene	<1	ppb
10/6/2014	1,2-Dichloroethane	<1	ppb
10/6/2014	1,2-Dichloropropane	<1	ppb
10/6/2014	1,3-dichlorobenzene	<1	ppb
10/6/2014	1,4-dichlorobenzene	<1	ppb
10/6/2014	2-Chloroethylvinylether	<2	ppb
10/6/2014	Benzene	<1	ppb
10/6/2014	Bromodichloromethane	<1	ppb
10/6/2014	Bromoform	<1	ppb
10/6/2014	Bromomethane	<10	ppb
10/6/2014	Carbon Tetrachloride	<1	ppb
10/6/2014	Chlorobenzene	<1	ppb
10/6/2014	Chloroethane	<10	ppb
10/6/2014	Chloroform	3	ppb
10/6/2014	Chloromethane	<10	ppb
10/6/2014	cis-1,3-Dichloropropene	<1	ppb
10/6/2014	Dibromochloromethane	<1	ppb
10/6/2014	Ethylbenzene	<1	ppb
10/6/2014	Methylene Chloride	<5	ppb
10/6/2014	o- xylene	<1	ppb
10/6/2014	p&m xylene	<1	ppb
10/6/2014	Tetrachlorethene	<1	ppb
10/6/2014	Toluene	12	ppb
10/6/2014	Trans-1,2-Dichloroethene	<1	ppb
10/6/2014	Trans-1,3-Dichloropropene	<1	ppb
10/6/2014	Trichlorethene	<1	ppb
10/6/2014	Trichlorofluoromethane	<1	ppb
10/6/2014	Vinyl Chloride	<1	ppb
11/17/2014	1,1,1-Trichloroethane	<1	ppb
11/17/2014	1,1,2,2-Tetrachlorethane	<1	ppb
11/17/2014	1,1,2-Trichloroethane	<1	ppb
11/17/2014	1,1-Dichloroethane	<1	ppb
11/17/2014	1,1-Dichloroethene	<1	ppb
11/17/2014	1,2-dichlorobenzene	<1	ppb
11/17/2014	1,2-Dichloroethane	<1	ppb
11/17/2014	1,2-Dichloropropane	<1	ppb
11/17/2014	1,3-dichlorobenzene	<1	ppb
11/17/2014	1,4-dichlorobenzene	<1	ppb
11/17/2014	2-Chloroethylvinylether	<2	ppb
11/17/2014	Benzene	<1	ppb
11/17/2014	Bromodichloromethane	<1	ppb
11/17/2014	Bromoform	<1	ppb
11/17/2014	Bromomethane	<10	ppb
11/17/2014	Carbon Tetrachloride	<1	ppb
11/17/2014	Chlorobenzene	<1	ppb
11/17/2014	Chloroethane	<10	ppb
11/17/2014	Chloroform	1	ppb
11/17/2014	Chloromethane	<10	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
10/7/2014	1,1-Dichloroethane	<1	ppb
10/7/2014	1,1-Dichloroethene	<1	ppb
10/7/2014	1,2-dichlorobenzene	<1	ppb
10/7/2014	1,2-Dichloroethane	<1	ppb
10/7/2014	1,2-Dichloropropane	<1	ppb
10/7/2014	1,3-dichlorobenzene	<1	ppb
10/7/2014	1,4-dichlorobenzene	<1	ppb
10/7/2014	2-Chloroethylvinylether	<2	ppb
10/7/2014	Benzene	<1	ppb
10/7/2014	Bromodichloromethane	<1	ppb
10/7/2014	Bromoform	<1	ppb
10/7/2014	Bromomethane	<10	ppb
10/7/2014	Carbon Tetrachloride	<1	ppb
10/7/2014	Chlorobenzene	<1	ppb
10/7/2014	Chloroethane	<10	ppb
10/7/2014	Chloroform	<1	ppb
10/7/2014	Chloromethane	<10	ppb
10/7/2014	cis-1,3-Dichloropropene	<1	ppb
10/7/2014	Dibromochloromethane	<1	ppb
10/7/2014	Ethylbenzene	<1	ppb
10/7/2014	Methylene Chloride	<5	ppb
10/7/2014	o- xylene	<1	ppb
10/7/2014	p&m xylene	<1	ppb
10/7/2014	Tetrachlorethene	<1	ppb
10/7/2014	Toluene	<1	ppb
10/7/2014	Trans-1,2-Dichloroethene	<1	ppb
10/7/2014	Trans-1,3-Dichloropropene	<1	ppb
10/7/2014	Trichlorethene	<1	ppb
10/7/2014	Trichlorofluoromethane	<1	ppb
10/7/2014	Vinyl Chloride	<1	ppb
11/18/2014	1,1,1-Trichloroethane	<1	ppb
11/18/2014	1,1,2,2-Tetrachlorethane	<1	ppb
11/18/2014	1,1,2-Trichloroethane	<1	ppb
11/18/2014	1,1-Dichloroethane	<1	ppb
11/18/2014	1,1-Dichloroethene	<1	ppb
11/18/2014	1,2-dichlorobenzene	<1	ppb
11/18/2014	1,2-Dichloroethane	<1	ppb
11/18/2014	1,2-Dichloropropane	<1	ppb
11/18/2014	1,3-dichlorobenzene	<1	ppb
11/18/2014	1,4-dichlorobenzene	<1	ppb
11/18/2014	2-Chloroethylvinylether	<2	ppb
11/18/2014	Benzene	<1	ppb
11/18/2014	Bromodichloromethane	<1	ppb
11/18/2014	Bromoform	<1	ppb
11/18/2014	Bromomethane	<10	ppb
11/18/2014	Carbon Tetrachloride	<1	ppb
11/18/2014	Chlorobenzene	<1	ppb
11/18/2014	Chloroethane	<10	ppb
11/18/2014	Chloroform	<1	ppb
11/18/2014	Chloromethane	<10	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

EPA Priority Pollutants Data Bucklin Point 2014

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
11/17/2014	cis-1,3-Dichloropropene	<1	ppb
11/17/2014	Dibromochloromethane	<1	ppb
11/17/2014	Ethylbenzene	<1	ppb
11/17/2014	Methylene Chloride	<5	ppb
11/17/2014	o- xylene	<1	ppb
11/17/2014	p&m xylene	<1	ppb
11/17/2014	Tetrachlorethene	<1	ppb
11/17/2014	Toluene	3	ppb
11/17/2014	Trans-1,2-Dichloroethene	<1	ppb
11/17/2014	Trans-1,3-Dichloropropene	<1	ppb
11/17/2014	Trichlorethene	<1	ppb
11/17/2014	Trichlorofluoromethane	<1	ppb
11/17/2014	Vinyl Chloride	<1	ppb
12/1/2014	1,1,1-Trichloroethane	<1	ppb
12/1/2014	1,1,2,2-Tetrachlorethene	<1	ppb
12/1/2014	1,1,2-Trichloroethane	<1	ppb
12/1/2014	1,1-Dichloroethane	<1	ppb
12/1/2014	1,1-Dichloroethene	<1	ppb
12/1/2014	1,2-dichlorobenzene	<1	ppb
12/1/2014	1,2-Dichloroethane	<1	ppb
12/1/2014	1,2-Dichloropropane	<1	ppb
12/1/2014	1,3-dichlorobenzene	<1	ppb
12/1/2014	1,4-dichlorobenzene	<1	ppb
12/1/2014	2-Chloroethylvinylether	<2	ppb
12/1/2014	Benzene	<1	ppb
12/1/2014	Bromodichloromethane	<1	ppb
12/1/2014	Bromoform	<1	ppb
12/1/2014	Bromomethane	<10	ppb
12/1/2014	Carbon Tetrachloride	<1	ppb
12/1/2014	Chlorobenzene	<1	ppb
12/1/2014	Chloroethane	<10	ppb
12/1/2014	Chloroform	8	ppb
12/1/2014	Chloromethane	<10	ppb
12/1/2014	cis-1,3-Dichloropropene	<1	ppb
12/1/2014	Dibromochloromethane	<1	ppb
12/1/2014	Ethylbenzene	<1	ppb
12/1/2014	Methylene Chloride	<5	ppb
12/1/2014	o- xylene	<1	ppb
12/1/2014	p&m xylene	<1	ppb
12/1/2014	Tetrachlorethene	1	ppb
12/1/2014	Toluene	2	ppb
12/1/2014	Trans-1,2-Dichloroethene	<1	ppb
12/1/2014	Trans-1,3-Dichloropropene	<1	ppb
12/1/2014	Trichlorethene	<1	ppb
12/1/2014	Trichlorofluoromethane	<1	ppb
12/1/2014	Vinyl Chloride	<1	ppb

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
11/18/2014	cis-1,3-Dichloropropene	<1	ppb
11/18/2014	Dibromochloromethane	<1	ppb
11/18/2014	Ethylbenzene	<1	ppb
11/18/2014	Methylene Chloride	<5	ppb
11/18/2014	o- xylene	<1	ppb
11/18/2014	p&m xylene	<1	ppb
11/18/2014	Tetrachlorethene	<1	ppb
11/18/2014	Toluene	<1	ppb
11/18/2014	Trans-1,2-Dichloroethene	<1	ppb
11/18/2014	Trans-1,3-Dichloropropene	<1	ppb
11/18/2014	Trichlorethene	<1	ppb
11/18/2014	Trichlorofluoromethane	<1	ppb
11/18/2014	Vinyl Chloride	<1	ppb
12/2/2014	1,1,1-Trichloroethane	<1	ppb
12/2/2014	1,1,2,2-Tetrachlorethene	<1	ppb
12/2/2014	1,1,2-Trichloroethane	<1	ppb
12/2/2014	1,1-Dichloroethane	<1	ppb
12/2/2014	1,1-Dichloroethene	<1	ppb
12/2/2014	1,2-dichlorobenzene	<1	ppb
12/2/2014	1,2-Dichloroethane	<1	ppb
12/2/2014	1,2-Dichloropropane	<1	ppb
12/2/2014	1,3-dichlorobenzene	<1	ppb
12/2/2014	1,4-dichlorobenzene	<1	ppb
12/2/2014	2-Chloroethylvinylether	<2	ppb
12/2/2014	Benzene	<1	ppb
12/2/2014	Bromodichloromethane	<1	ppb
12/2/2014	Bromoform	<1	ppb
12/2/2014	Bromomethane	<10	ppb
12/2/2014	Carbon Tetrachloride	<1	ppb
12/2/2014	Chlorobenzene	<1	ppb
12/2/2014	Chloroethane	<10	ppb
12/2/2014	Chloroform	<1	ppb
12/2/2014	Chloromethane	<10	ppb
12/2/2014	cis-1,3-Dichloropropene	<1	ppb
12/2/2014	Dibromochloromethane	<1	ppb
12/2/2014	Ethylbenzene	<1	ppb
12/2/2014	Methylene Chloride	<5	ppb
12/2/2014	o- xylene	<1	ppb
12/2/2014	p&m xylene	<1	ppb
12/2/2014	Tetrachlorethene	<1	ppb
12/2/2014	Toluene	<1	ppb
12/2/2014	Trans-1,2-Dichloroethene	<1	ppb
12/2/2014	Trans-1,3-Dichloropropene	<1	ppb
12/2/2014	Trichlorethene	<1	ppb
12/2/2014	Trichlorofluoromethane	<1	ppb
12/2/2014	Vinyl Chloride	<1	ppb

Table 25: EPA Priority Pollutants Data Bucklin Point

Sanitary Manhole Sampling Data 2014

Date	Location	As (ppb)	BOD (ppm)	Cd (ppb)	Cr (ppb)	Cu (ppb)	CN (ppb)	Pb (ppb)	Hg (ppt)	Mo (ppb)	Ni (ppb)	Se (ppb)	Ag (ppb)	Sn (ppb)	TSS (ppm)	Zn (ppb)
1/8/2014	BS24	0.5	162	0.166	1.331	27.50	2.32	2.886	19	0.504	2.17	1	0.4693	5	160	66.55
1/22/2014	BS03	0.5	116.97	0.07467	0.487	10.61	4.00	0.7703	13.2	0.327	1.518	1	0.1003	5	84	49.83
2/5/2014	BS26	0.7443	419.2	0.2287	1.991	33.27	6.49	3.253	32.1	1.688	3.877	1	0.465	5	2350	188.1
2/26/2014	FS17	0.544	396	0.1413	0.9367	21.29	4.00	12.09	43.5	0.7587	1.989	1	0.314		300	107.9
3/5/2014	BS26	0.6117	326.82	0.09567	0.7617	17.37	4	2.015	13	0.9223	1.715	1	0.1003	5	60	81.02
3/26/2014	BS20	0.5	650	0.4053	7.127	79.24	8.00	10.35	65	1.933	5.695	1	0.396	5	476	378.7
4/2/2014	FS25	0.5	143.42	0.1113	0.6463	11.68	4.06	5.579	26.9	0.8303	1.853	1.142	0.06667		106	94.36
4/9/2014	BS15	0.6073	1613.2	0.924	7.667	90.08	4.00	3.046	105	2.455	5.593	1	0.557	5	1456	321.5
4/16/2014	FS37	0.5	338.58	0.2857	2.47	23.17	4	5.37	70.2	0.994	4.453	1	0.113		134	107.6
4/23/2014	BS02	0.5587	183.6	0.1157	1.426	73.66	4.00	12.33	30.1	0.858	2.531	1	0.285	5	186	126.3
4/30/2014	FS31	0.5	94.6	0.1507	0.961	27.90	4	1.63	27.1	0.774	1.952	1	0.1267		196	90.48
5/7/2014	BS09	0.5633	206.06	0.3647	1.717	130.9	4.00	43.77	90	1.092	3.02	1	0.3693	5	1192	256.1
5/14/2014	FS34	0.5	375.42	0.313	0.563	8.49	8	1.431	13.5	1.096	1.091	1	0.05933		206	46.49
5/22/2014	BS05	0.5	86.4	0.1167	0.4473	5.423	4.00	0.482	7.82	0.3	1.932	1	0.02267	5	34	40.27
5/28/2014	BS04	0.5053	522.56	1.101	3.243	48.46	8	4.19	59	2.982	7.761	1.143	0.2043	5	895	385.4
6/4/2014	BS11	0.83	314.62	0.219	1.896	2812	4.00	19.64	282	0.9423	2.286	1	6.698	5	332	162
6/11/2014	FS19	0.611	307.16	0.1653	0.8997	23.59	NM	9.688	46.2	0.902	2.208	1	0.4953		176	89.16
6/18/2014	BS06	0.519	287.62	0.2843	1.025	152.8	4.00	18.5	35.5	0.95	2.561	1	0.2927	5	174	193.2
6/25/2014	FS14	0.5	200.57	0.1803	1.115	54.00	4	3.888	17.4	0.571	1.496	1	0.2247		284	133.6
7/16/2014	BS15	0.5	270.34	0.3043	2.961	43.66	4.58	4.375	46.5	0.8023	2.995	1	0.299	5	366	186.1
7/23/2014	FS24	0.944	346.28	0.4047	2.426	56.35	8	52.5	52.9	1.59	4.617	1	0.6503		258	237.5
7/30/2014	BS10	0.6107	231.04	1.196	1.653	115.3	4.00	2264	33.2	0.9223	2.809	1	1.052	5	292	146.1
8/6/2014	FS05	0.689	71.6	0.114	1.069	15.21	5.37	7.139	29.2	0.886	1.769	1	0.16		124	50.007
8/15/2014	BS23	0.5		0.119	1.164	100.163	186.00	19.93	79.3	0.557	1.857	1	0.264	5		133.833
8/24/2014	FS13	0.5	291.24	0.245	0.917	15.47	4	2.903	20.2	0.49	2.142	1	0.157		420	75.98
8/27/2014	BS10	0.552	167.14	0.231	2.293	131.2	4.00	8.197	55.9	0.811	7.038	1	0.248	5	298	148.267
9/3/2014	FS43	0.89	475.72	0.318	2.903	93.35	8	101.433	47.4	1.649	4.118	1	0.199		454	281.5
9/10/2014	BS02	1.205	763.35	0.472	2.659	241.967	5.11	15.44	61.1	2.46	5.873	1.182	1.313	5	352	504.233
9/17/2014	FS04	0.614	195	0.147	1.235	31.47	4	181.533	35.3	0.713	1.914	1	0.159		244	112.333
9/24/2014	FS12	0.77	862	0.339	1.509	42.11	8	7.493	27.7	2.469	4.459	1.539	0.288		276	295.533
10/1/2014	BS16	0.504	192.28	0.144	0.944	82.36	4	5.878	53.3	3.426	2.716	1	0.237	5	142	111.933
10/8/2014	FS13	0.507	580.2	0.468	1.874	35.37	8	7.167	74.8	2.152	3.683	1	0.259		1010	311.533
10/15/2014	BS17	0.562	304	0.198	1.499	80.54	4	6.996	52.7	1.058	2.781	1	0.29	5	270	143.433
10/22/2014	FS20	0.586	237.07	0.104	0.729	25.51	4	2.05	8.67	0.64	1.48	1	0.122		196	68.903
10/29/2014	FS14	0.5	167.57	0.156	0.665	40.83	4.00	2.014	22.7	0.524	1.36	1	0.118		190	82.023
11/4/2014	BS11	0.5	216.72	0.112	0.641	40.53	4	3.485	184	0.61	1.671	1	0.409	5	136	114.433
11/12/2014	FS11	0.5	308.8	0.213	1.074	28.11	4	12.557	52.1	0.987	2.204	1	0.462		380	126.067
11/19/2014	BS01	0.5		0.063	1.397	54.41	4	5.316	16.9	0.661	1.245	1	0.071	5		48.163
11/25/2014	FS01	0.575	300.19	0.106	0.666	16.88	4	7.367	34.2	0.673	1.656	1	0.268		228	76.703
12/3/2014	BS24	1.592	336.6	0.205	0.448	26.353	7.91	1.642	31	0.542	1.132	1	0.027	5	68	149.367
12/10/2014	FS17	0.5	288.68	0.237	1.805	42.85	4.95	12.723	39.2	1.17	2.707	1	0.404		410	147.3
12/17/2014	BS14	0.5	8.14	0.119	0.3	0.887	4.15	0.3	2	0.3	0.592	1	0.02	5	2	10.837

BS= Bucklin Point Sanitary Manhole FS= Field's Point Sanitary Manhole

Table: 26 Sanitary Manhole Sampling Data



NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
A & F Plating Company	#1	22	12/3/2014	C	0		No	0.015	0.075	0.022	0.075	0.05	0.136		0.025	898.72	104	0.158	14.49	Ammonia = 2.48 As = 0.005	FP
A & F Plating Company	#1	11	12/8/2014	C	3620		No	0.015	0.075	0.376	0.075	2.53	1.14	0.447	0.025					Ammonia = 9.9 As = 0.005	FP
A & F Plating Company	#1	25	12/9/2014	C	6358		No												31.68	Ammonia = 0.163 As = 0.006	FP
A & F Plating Company	#2	22	11/6/2014	G		1500	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025					Ammonia = 552 As = 0.005	FP
A & F Plating Company	#3	22	11/5/2014	C	24460		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025					Ammonia = 57.4 As = 0.005	FP
A & F Plating Company	#4	40	2/24/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		6		4	As = 0.001	FP
A & F Plating Company	#4	40	3/24/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		60		4	As = 0.003	FP
A & F Plating Company	#5	40	2/24/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		54		4	As = 0.002	FP
A. Harrison & Company, Inc.	#1	11	7/30/2014	C	1272		No	0.015	0.075	0.214	0.075	0.16	0.066	0.004	0.025					As = 0.005	FP
A. Harrison & Company, Inc.	#1	11	9/9/2014	C	1210		No	0.015	0.075	0.079	0.075	0.147	0.066	0.015	0.025					As = 0.005	FP
A. Harrison & Company, Inc.	#1	43	9/15/2014	C	3665		No	0.015	0.075	0.02	0.075	0.05	0.811		0.025					As = 0.005	FP
A. Harrison & Company, Inc.	#5	40	1/13/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		120		4	As = 0.003	FP
A.T. Cross Company	#3	59	5/6/2014	G			No	0.015	0.075	2.73	0.075	0.05	0.132		0.025						BP
A.T. Cross Company	#3	59	8/7/2014	G			No	0.015	0.075	0.261	0.075	0.05	0.06		0.025						BP
Accent Plating Company	#1	11	2/18/2014	C	3100		No	0.015	0.075	0.245	0.075	0.06	0.117	0.004	0.025						BP
Accent Plating Company	#1	11	9/24/2014	C	2000		No	0.015	0.075	0.133	0.075	0.05	0.06	0.004	0.025						BP
AG&G Incorporated	#1	11	7/15/2014	C	913		No	0.112	0.276	0.476	0.075	18.12	7.87	0.004	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	7/30/2014	C	12268		No	0.015	0.122	0.128	0.075	1.16	0.154	0.033	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	7/31/2014	C	45030		No	0.015	0.075	3.3	0.075	0.381	1.16	0.017	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	8/6/2014	C	2760		No	0.015	0.075	2.9	0.075	0.287	0.063	2.7	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	8/19/2014	C	9442		No	0.015	0.332	0.192	0.075	0.156	0.945	0.004	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	9/9/2014	C	299		No	0.015	0.075	0.394	0.075	0.058	0.094	0.004	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	9/10/2014	C	1646		No	0.02	0.125	0.926	0.075	0.522	0.288	0.29	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	9/19/2014	C	5461		No	0.015	0.225	0.114	0.075	0.783	0.471	0.01	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	9/24/2014	C	556		No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025					As = 0.005	FP
AG&G Incorporated	#1	27	10/8/2014	C	96600		No	0.015	0.075	0.02										As = 0.005	FP
AG&G Incorporated	#1	11	10/28/2014	C	5236		No	0.015	0.292	0.025	0.075	0.05	0.851	0.007	0.025					As = 0.005	FP
AG&G Incorporated	#1	11	11/19/2014	C	3964		No	0.015	0.075	0.475	0.075	0.364	0.375	0.072	0.356					As = 0.005	FP
Alloy Holdings, LLC	#1	11	9/8/2014	C	10040		No	0.015	0.075	0.267	0.075	0.058	0.06	0.012	0.025					As = 0.005	FP
Alloy Holdings, LLC	#1	11	9/10/2014	C	4500		No	0.015	0.075	0.201	0.075	0.933	0.069	0.012	0.025					As = 0.005	FP
Alloy Holdings, LLC	#1	11	9/11/2014	C	11744		No	0.015	0.075	0.079	0.075	0.103	0.06	0.016	0.029					As = 0.005	FP
Alloy Holdings, LLC	#1	11	10/9/2014	G	0	0	No	0.015	0.075	0.023	0.075	0.092	0.06	0.006	0.025					As = 0.005	FP
Alloy Holdings, LLC	#1	71	11/6/2014	G	0	1	No	0.015	0.075	8.85	0.579	0.05	0.458	0.004	0.025					As = 0.005	FP
Alloy Holdings, LLC	#1	11	11/24/2014	C	763		No	0.015	0.309	0.02	0.075	0.05	0.06	0.016	0.025			0.001		As = 0.005	FP
Angelica Textile Service	#1	25	1/6/2014	C	0	1	No									405.8	34		21.89		BP
Angelica Textile Service	#1	25	9/30/2014	C	0	1	No									345.73	42		12.87		BP
Armbrust International, Ltd.	#1	11	7/31/2014	C	8901		No			1.18		0.33	0.535	0.015						As = 0.005	FP
Armbrust International, Ltd.	#1	11	9/4/2014	C	2468		No	0.015	0.075	0.085	0.075	0.112	0.06	0.144	0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	11	9/10/2014	C	12492		No	0.015	0.075	1.855				0.912						As = 0.005	FP
Armbrust International, Ltd.	#1	11	9/15/2014	C	2670		No	0.015	0.075	0.156	0.075	0.05	0.06	0.004	0.027					As = 0.005	FP
Armbrust International, Ltd.	#1	11	9/30/2014	C	0	1346	No	0.015	0.075	0.124	0.075	0.056	0.06	0.021	0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	11	10/2/2014	C	5161		No	0.015	0.595	0.106	0.075	0.05	0.06	0.007	0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	11	10/9/2014	G		400	No				0.408	0.05	0.084		0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	11	10/20/2014	C	15708		No	0.015	0.075	0.501	0.075	0.324	0.243	0.005	0.187					As = 0.005	FP
Armbrust International, Ltd.	#1	11	10/21/2014	C	748		No	0.018	0.063	1.52				0.684						As = 0.005	FP
Armbrust International, Ltd.	#1	22	10/21/2014	C		7800	No	0.015	0.109					0.005	0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	24	10/22/2014	C			No	0.015	0.075	0.02	0.075	0.05	0.06		0.025					As = 0.005	FP

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
Armbrust International, Ltd.	#1	11	10/28/2014	C	224		No	0.015	0.075	1.18	0.075	0.777	0.077	1.82	0.55					As = 0.005	FP
Armbrust International, Ltd.	#1	11	11/18/2014	C	4563		No	0.015	0.075	0.147	0.075	0.236	0.143	0.009	0.025					As = 0.005	FP
Armbrust International, Ltd.	#1	34	12/8/2014	G		300	No									167.22	40		18.55	As = 0.005	FP
Aspen Aerogels Rhode Island, LLC	#1	27	2/6/2014	C	10000		No									13663.929	200	0.007			BP
Aspen Aerogels Rhode Island, LLC	#1	27	11/19/2014	C	10334		No									22666.07	30	0.02			BP
Barletta Heavy Division, Inc.	#1	40	1/9/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		104		4	As = 0.006	FP
Barletta Heavy Division, Inc.	#1	40	2/24/2014	C	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025		48		4	As = 0.006	FP
Barletta Heavy Division, Inc.	#1	22	11/6/2014	G		6000	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025					As = 0.005 Ammonia = 8910	FP
Barletta Heavy Division, Inc.	#1	11	11/18/2014	C	2500		No	0.015	0.075	0.029	0.075	0.05	0.06	0.019	0.025					As = 0.005 Ammonia = 0.1	FP
Barletta Heavy Division, Inc.	#2	34	12/2/2014	C	224		No									6167.81	422		54.78	As = 0.007	FP
Barletta Heavy Division, Inc.	#3	34	12/2/2014	C	275457		No	0.015	0.212	0.02	0.075	0.073	0.06	0.022	0.025	1077.35	34	0.617	4	As = 0.269 Off Season Total Nitrogen = 927 Off Season TKN = 927 Off Season Nitrate+Nitrite = 0.1 Off Season Ammonia = 838	FP
Bliss Manufacturing Co., Inc.	#1	11	3/3/2014	C	546		No	0.015	0.075	0.091	0.075	0.05	0.06	0.887	1.68						BP
Bliss Manufacturing Co., Inc.	#1	11	4/15/2014	C	606		No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025						BP
Bliss Manufacturing Co., Inc.	#1	11	11/19/2014	C	850		No	0.015	0.075	0.1	0.075	0.05	0.06	0.004	0.025						BP
Chemart Company	#1	11	1/8/2014	C	11720		No	0.015	0.075	0.304	0.075	0.112	0.06	0.019	0.025						BP
Chemart Company	#1	11	8/4/2014	C	8521		No	0.015	0.075	1.69	0.075	0.493	0.184	0.007	0.025						BP
Cintas Corporation	#1	25	3/11/2014	C	0	1	No	0.015	0.106	0.13	0.075	0.065	0.192	0.006	0.025	157.39	72	0.036	14.42		BP
Cintas Corporation	#1	25	11/13/2014	C	22215		No				0.114	0.065	0.175		0.018		21.5	0.03			BP
Darlene Group	#1	11	2/12/2014	C	333		No	0.015	0.075	0.042	0.075	0.05	0.06	0.004	0.025						BP
Darlene Group	#1	11	8/5/2014	C	68		No	0.015	0.075	0.178	0.075	0.05	0.06	0.004	0.025						BP
Denison Acquisition Company, LLC	#1	14	1/21/2014	C		1100	No	0.015	0.075	0.071	0.075	0.05	0.262		0.025	1389.036	10	12.155		Acetone = 12 N-Amyl Acetate = 0.01 Ethyl Acetate = 0.18 Isopropyl Acetate = 0.01	BP
Denison Acquisition Company, LLC	#1	14	10/31/2014	G		1200	No	0.015	0.075	0.114	0.075	0.05	7.41		0.025	1244.13	70	13.472		Isopropyl Acetate = 0.01 Ethyl Acetate = 0.01 N-Amyl Acetate = 0.01 Acetone = 13	BP
Dominion Energy Manchester St., Inc.	#3	34	12/16/2014	C	276540		No	0.015	0.19	0.02	0.075	0.068	0.06	0.018	0.025	850.95	54	0.431	4	Off Season Total Nitrogen = 826 As = 0.198 Off Season Nitrate+Nitrite = 0.1 Off Season Ammonia = 697 Off Season TKN = 826	FP
Eaton Aerospace	#1	11	1/14/2014	C	322		No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025						BP
Eaton Aerospace	#1	11	11/19/2014	C			No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025						BP
Ecological Fibers, Inc.	#1	24	3/3/2014	C	2700		No	0.015	0.075	0.048	0.075	0.098	1.06		0.025	243.29	48				BP
Ecological Fibers, Inc.	#1	24	9/29/2014	C	3000		No	0.015	0.075	0.052	0.075	0.241	6.8		0.025	728.02	34	0.01			BP
Ecological Fibers, Inc.	#1	24	10/16/2014	C	300		No	0.015	0.075	0.053	0.075	0.073			0.025	367.3	39	0.034			BP

Table: 27 NBC Significant Industrial User Sample Results

## NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
Ecological Fibers, Inc.	#1	24	12/9/2014	C	2600		No	0.015	0.075	0.048	0.075	0.112	5.01		0.025	532.8	20	0.012			BP
Electrolizing, Inc.	#1	11	1/29/2014	C	950		No	0.015	0.075	0.07	0.075	0.248	0.06	0.268	0.025						FP
Evans Plating Corporation (N.P.)	#1	11	1/23/2014	C	1047		No	0.015	0.08	0.144	0.075	0.112	0.06	0.013	0.025						FP
Evans Plating Corporation (N.P.)	#1	22	1/29/2014	G	0	0	No											0.002	4		FP
Evans Plating Corporation (N.P.)	#1	22	10/22/2014	G	0	0	No											0.04			FP
G. Tanury Plating Company	#1	11	2/18/2014	C	374		No	0.015	0.075	1.61	0.075	0.121	0.177	0.004	0.025						FP
G. Tanury Plating Company	#1	11	3/4/2014	C	2917		No	0.015	0.075	0.145	0.075	0.229	0.071	0.012	0.025						FP
G. Tanury Plating Company	#1	43	3/5/2014	C	4937		No	0.015	0.075	0.02	0.075	0.05	0.15		0.025						FP
General Cable Industries, LLC	#1	27	3/10/2014	C	199		No	0.015	0.075	0.126	0.075	0.05	0.433		0.025	801.44	118				BP
General Cable Industries, LLC	#1	27	11/18/2014	C	3951		No	0.015	0.075	0.105	0.075	0.05	0.617		0.025	976.93	54		4		BP
Godfrey & Wing, Inc.	#1	27	11/20/2014	C	6290	0	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.039			BP
Godfrey & Wing, Inc.	#1	27	12/9/2014	C	13135		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.043			BP
Herff Jones, Inc.	#1	11	2/17/2014	C	11445		No	0.015	0.176	0.235	0.075	1.35	0.08	0.009	0.025						FP
Herff Jones, Inc.	#1	27	3/20/2014	C	73190		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025						FP
Hord Crystal Corporation	#1	11	1/21/2014	G	0	300	No	0.015	0.075	0.223	0.075	0.05	0.06	0.008	0.025						BP
Hord Crystal Corporation	#1	11	10/9/2014	G	0	300	No	0.015	0.075	0.871	0.075	0.05	0.085	0.013	0.025						BP
HP Services, Inc.	#1	11	3/3/2014	G	0	60	No	0.015	0.075	0.315	0.075	0.05	0.077	0.019	0.025				4		BP
HP Services, Inc.	#1	11	11/14/2014	G	0	200	No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025						BP
Impco, Inc.	#1	27	2/4/2014	C	0	11160	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.042			BP
Impco, Inc.	#1	27	7/8/2014	C	12005		No	0.015	0.075	0.123	0.075	0.05	0.06	0.015	0.025			0.055			BP
Induplate LLC	#1	11	1/23/2014	C	1800		No	0.015	0.075	0.294	0.075	0.1	0.06	0.093	0.025						FP
Induplate LLC	#1	25	2/19/2014	C	0	1	No									84.79	6		5.298		FP
Induplate LLC	#1	22	2/26/2014	C	1122		No	0.015	0.075	0.058	0.075	0.05	0.364		0.025	2598.4	174	10.065	407.7		FP
International Chromium Plating	#1	11	2/26/2014	C	5012		No	0.015	0.239	0.074	0.075	0.05	1.15	0.004	0.025						FP
International Etching, Inc.	#1	11	2/12/2014	C	1391		No	0.015	0.075	0.02	0.075	0.05	0.06	0.013	0.025						FP
International Etching, Inc.	#1	11	2/26/2014	C	48022		No	0.015	0.075	0.698	0.075	0.605	0.06	0.04	0.025						FP
International Etching, Inc.	#1	11	4/29/2014	C	0	1	No	0.245	0.305	0.329	0.075	0.369	0.627	0.097	0.025						FP
International Insignia Corporation	#1	11	1/13/2014	C	5685		No	0.015	0.075	0.035	0.075	0.05	0.06	0.006	0.025						FP
International Insignia Corporation	#1	11	3/11/2014	C	299		No	0.015	0.075	0.746	0.075	0.082	0.06	0.014	0.025						FP
International Insignia Corporation	#1	11	6/3/2014	C	374		No	0.015	0.075	1.16	0.075	0.378	0.154	0.008	1.18						FP
International Insignia Corporation	#1	11	9/11/2014	G	0		No	0.015	0.075	0.095	0.075	0.323	0.06	0.008	0.031						FP
Interplex Engineered Products, Inc.	#1	11	1/28/2014	C	0	1	No	0.015	0.075	0.086	0.075	1.41	0.06	0.025	0.025						BP
Interplex Engineered Products, Inc.	#1	11	11/25/2014	C	0		No	0.015	0.075	0.026	0.075	0.4	0.06	0.011	0.025						BP
Ira Green, Inc.	#1	11	1/7/2014	C	5386		No	0.015	0.076	0.248	0.075	0.299	0.087	0.01	0.025						FP
Ira Green, Inc.	#1	11	2/4/2014	C	12973		No	0.015	0.075	0.052	0.075	0.075	0.379	0.004	0.025						FP
Ira Green, Inc.	#1	11	2/11/2014	C	1496		No	0.06	0.564	1.09	0.075	0.258	1.4	0.097	0.025						FP
J.H. Lynch & Sons, Inc.	#1	40	3/6/2014	C	651600	1	No	0.015	0.075	0.027	0.075	0.05	0.114		0.025			214	4	As = 0.005	BP
J.H. Lynch & Sons, Inc.	#1	40	3/11/2014	C	6881		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025			8	4	As = 0.001	BP
John H. Collins & Sons Company	#1	27	2/18/2014	C	860		No	0.015	0.075	1.04	0.182	0.061	0.31	0.02	0.05			0.369	186.3		BP
John H. Collins & Sons Company	#1	27	11/25/2014	C	1200		No	0.015	0.075	0.021	0.075	0.05	0.166	0.009	0.025			0.085	13.93		BP

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
JRB Associates Inc.	#1	11	1/7/2014	C	3700		No	0.015	0.075	1.33	0.075	1.16	0.345	0.007	0.025						FP
JRB Associates Inc.	#1	11	2/10/2014	C	4300		No	0.015	0.075	0.57	0.075	0.701	0.157	0.009	0.025						FP
JRB Associates Inc.	#1	11	3/5/2014	C	4360		No	0.015	0.075	0.02	0.075	0.05	0.06	0.004	0.025						FP
Lincoln Manufacturing, Inc.	#1	22	2/3/2014	G		900	No												2056		BP
Lincoln Manufacturing, Inc.	#1	22	10/8/2014	G		900	No												187.4		BP
Liquid Blue	#1	23	1/15/2014	G	0	1	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025	414.98	18				BP
Liquid Blue	#1	23	10/7/2014	G	0	0	No	0.015	0.075	0.049	0.075	0.05	0.06		0.025	145.05	32				BP
Liquid Blue	#1	23	11/17/2014	G	0	1	No	0.015	0.075	0.078	0.075	0.05	0.06		0.025	332.99	32				BP
Liquid Blue	#2	23	1/15/2014	G	0		No	0.015	0.075	0.025	0.075	0.05	0.06		0.025	219.68	36				BP
Liquid Blue	#2	23	10/7/2014	G	0	0	No	0.015	0.075	19.4	0.075	0.05	0.067		0.025	80.9	14				BP
Liquid Blue	#2	23	11/17/2014	G	0	1	No	0.015	0.075	2.72	0.075	0.05	0.185		0.025	193.43	60				BP
Mahr Federal Inc.	#1	11	1/28/2014	C	17300		No	0.015	0.075	0.076	0.075	0.121	0.06	0.043	0.025						FP
Materion Technical Materials, Inc.	#1	11	1/14/2014	C	55000		No	0.015	0.075	0.028	0.075	0.05	0.06	0.012	0.025						BP
Materion Technical Materials, Inc.	#1	11	7/15/2014	C	49947		No	0.015	0.075	0.043	0.075	0.113	0.144	0.004	0.045						BP
Microfibres, Inc.	#1	23	3/4/2014	C	57400		No	0.015	0.075	0.033	0.075	0.05	0.06		0.025	965	420		52.79		BP
Microfibres, Inc.	#1	23	11/18/2014	C	41200		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025	575.5	580		14.8		BP
Monarch Metal Finishing Co., Inc.	#1	11	1/6/2014	C	7900		No	0.015		0.293	0.075				0.059						FP
Monarch Metal Finishing, Inc.	#1	11	1/24/2014	G	0		No	0.015	0.493	0.224	0.075	0.788	0.509	0.01	0.025						FP
Monarch Metal Finishing, Inc.	#1	71	2/12/2014	G	0		No	0.015	0.075	19.89	0.075	0.068	0.076	0.007	0.025						FP
Monarch Metal Finishing, Inc.	#1	11	2/26/2014	C	568		No	0.015	0.224	0.02	0.075	0.053	0.06	0.004	0.025						FP
Monarch Metal Finishing, Inc.	#1	11	6/16/2014	C	9810		No	0.015	0.075						0.025						FP
Murdock Webbing Co., Inc.	#1	23	1/15/2014	C	3516		No	0.015	0.075	0.246	0.075	0.05	0.124		0.025	1442.614	68		62.16		BP
Murdock Webbing Co., Inc.	#1	23	8/5/2014	C	0		No	0.015	0.075	0.079	0.075	0.057	0.192		0.025	1423.43	28		53.95		BP
New England Linen Supply, Inc.	#1	25	1/27/2014	C	33525		No									979.68	382		99.24		BP
New England Linen Supply, Inc.	#1	25	7/30/2014	C	34800		No									1085.5	410		104.2		BP
Northeast Remsco Construction, Inc.	#1	11	2/13/2014	C	1620		No	0.015	0.075		0.075				0.025						FP
Northeast Remsco Construction, Inc.	#1	11	3/13/2014	C	11295		No	0.015	0.075	1.835	0.075										FP
Northeast Remsco Construction, Inc.	#1	11	4/16/2014	C	8976		No	0.015	0.075		0.075			0.639	0.025						FP
Osram Sylvania, Inc.	#1	27	2/12/2014	G			No	0.015	0.195	0.276	0.075	0.479	0.075		0.025					305.7	BP
Osram Sylvania, Inc.	#1	27	4/23/2014	G		2625	No	0.015							0.025						BP
Pawtucket Power Associates	#1	16	3/24/2014	C	29900		No	0.015		0.079					0.025					4	BP
Pawtucket Power Associates	#1	16	7/15/2014	C	286		No	0.015	0.075	0.052	0.075	0.091	0.06		0.025					4	BP
Pawtucket Power Associates	#3	16	3/24/2014	G	100		No	0.015	0.075	0.02					0.025						BP
Pawtucket Power Associates	#3	16	7/16/2014	G		100	No								0.025						BP
Pawtucket Power Associates	#4	16	7/9/2014	C	4690		No								0.025						BP
Precision Dermatology	#1	14	2/25/2014	G			No	0.015	0.075	0.108	0.075	0.05	0.084	0.046	0.025	476.75	54	2.52	121.8	Isopropyl Acetate = 0.01 N-Amyl Acetate = 0.01 Acetone = 2.5 Ethyl Acetate = 0.039	BP

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
Precision Dermatology	#1	14	3/25/2014	G			No	0.015	0.075	0.14	0.075	0.05	0.112	0.004	0.025	903.63	6	0.87	88.85	Acetone = 0.84 N-Amyl Acetate = 0.01 Ethyl Acetate = 0.01 Isopropyl Acetate = 0.01 Methylene Chloride = 0.005	BP
Providence Metallizing Company, Inc.	#1	11	6/9/2014	C	14288		No	0.018	0.064	0.09				0.007							BP
Providence Metallizing Company, Inc.	#1	11	12/3/2014	C	19375		No				0.063	0.181	0.035		0.018						BP
R. E. Sturdy Company, Inc.	#1	24	1/28/2014	C	0	1	No	0.015	0.075	0.054	0.075	0.05	0.06		0.025				7.02		FP
R. E. Sturdy Company, Inc.	#1	11	1/30/2014	G			No	0.015	0.075	0.02	0.075	0.05	0.082	0.052	0.025				4		FP
Rhode Island Resource Recovery Corp.	#1	34	3/19/2014	G			No									1446.1	808		666.2		FP
Shank/Balfour Beatty	#2	34	3/19/2014	C	48620		No									26685	1278		450.5		FP
Stackbin Corporation	#1	11	4/22/2014	G	0	1150	No		0.075		0.075		0.164		0.025						BP
Stackbin Corporation	#1	11	10/8/2014	G	0	1150	No	0.015	0.075	0.023	0.075	0.05	0.11	0.085	0.025						BP
Stackbin Corporation	#2	11	4/22/2014	G	0	600	No		0.075		0.075		0.06		0.025						BP
Stackbin Corporation	#2	11	10/8/2014	G	0	600	No	0.015	0.075	0.02	0.075	0.05	0.06	0.326	0.025						BP
Summit Manufacturing Corporation	#1	11	1/16/2014	C	8826		No	0.015	0.075	0.359	0.075	0.05	0.06	0.007	0.025						BP
Summit Manufacturing Corporation	#1	11	8/27/2014	C	13464		No	0.015	0.136	0.35	0.075	0.129	0.06	0.016	0.025						BP
Tanury Industries	#1	11	3/12/2014	C	25290		No	0.015	0.534	2.99	0.075	2.91	0.178	0.054	0.287						BP
Tanury Industries	#1	11	4/21/2014	C	17930		No	0.015	0.193	1.07	0.075	0.577	0.06	0.346	0.168						BP
Tanury Industries	#1	11	9/24/2014	C	147200		No	0.015	0.36	0.527	0.075	0.484	0.06	0.276	0.269						BP
Tanury Industries PVD, Inc.	#1	11	9/24/2014	G	0	1	No	0.015	0.568		0.075	1	0.886	0.04	0.053						BP
Tanury Industries PVD, Inc.	#1	11	11/20/2014	G	0		No	0.015	0.636		0.075	1.13	0.961	0.1	0.049						BP
Technodic, Inc.	#1	11	2/25/2014	C	449		No	0.015	0.075	0.67	0.075	0.499	0.123	0.046	0.107						FP
Tedor Pharma Inc.	#1	14	2/27/2014	G			No	0.015	0.075	0.274	0.075	0.05	0.571		0.025	192.71	34	0.198	4	Methylene Chloride = 0.005 Isopropyl Acetate = 0.01 Ethyl Acetate = 0.01 N-Amyl Acetate = 0.01 Acetone = 0.78	BP
Tedor Pharma Inc.	#1	14	7/21/2014	G		362	No		0.075		0.075	0.05			0.025						BP
Teknicote, Inc.	#1	11	3/26/2014	G		800	No	0.015	0.075	0.02	0.075	0.05	1.08	0.004	0.025						BP
Teknicote, Inc.	#1	11	11/6/2014	G		200	No	0.015	0.075	0.02	0.075	0.05	0.332	0.066	0.025						BP
Teknicote, Inc. (Cumberland)	#1	11	1/7/2014	G		800	No	0.015	0.075	0.038	0.075	0.075	0.42	0.071	0.025						BP
Teknicote, Inc. (Cumberland)	#1	11	1/15/2014	G		900	No	0.015	0.075	0.07				0.004							BP
Tiffany and Company	#1	15	3/4/2014	C	5818		No	0.015	0.075	0.072	0.075	0.05	0.06	0.004	0.05						BP
Tiffany and Company	#1	15	7/17/2014	C			No	0.015	0.075	0.049	0.075	0.05	0.06	0.004	0.034						BP
Tri-Jay Company	#1	11	2/10/2014	C	10322		No	0.015	0.105		0.075										FP
Tri-Jay Company	#1	11	3/5/2014	C	4488		No	0.015	0.075	0.365	0.075	0.257	0.278	0.007	0.025						FP
Tri-Jay Company	#1	11	3/6/2014	C	3890		No	0.015	0.578	0.102	0.075	0.05	0.06	0.015	0.025						FP
Tri-Jay Company	#1	11	5/27/2014	C	4937		No	0.015	0.075	0.289	0.075	0.31	0.177	0.006	0.025						FP
Tri-Jay Company	#4	11	5/28/2014	G			No	0.015	0.075	0.021	0.075	0.05	0.06		0.025						FP
Truex, Inc.	#1	11	3/18/2014	C	2394		No	0.015	0.075	0.614	0.075	0.05	0.272	0.004	0.025						BP
Truex, Inc.	#1	11	10/22/2014	C	1197		No	0.015	0.075	0.374	0.075	0.05	0.165	0.004	0.025				4		BP
Umicore USA, Incorporated	#1	22	1/8/2014	G		6000	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025						FP
Umicore USA, Incorporated	#2	22	1/8/2014	G		1500	No	0.015	0.075	0.714	0.075	1.68	1.28		0.025						FP
Unique Plating Company	#3	22	1/8/2014	C	18401		No	0.015	0.075	0.02	0.075	0.05	0.06		0.025						FP

Table: 27 NBC Significant Industrial User Sample Results

NBC Significant Industrial User Sample Results

User Name	Location	Cat. #	Sample Date	Type	Flow	Volume	CDF	Cd	Cr	Cu	Pb	Ni	Zn	Cn	Ag	BOD	TSS	TTO	Total O & G	Misc	District
Univar USA, Inc.	#1	11	1/13/2014	C	673		No	0.015	0.075	0.194	0.075	0.374	0.06	0.2	0.025						FP
Univar USA, Inc.	#1	22	3/19/2014	C		7000	No	0.015	0.075	0.055	0.075	0.342	0.433	0.034	0.025			0.24			FP
Universal Plating Company, Inc.	#1	11	1/30/2014	C	0	972	No	0.015	0.075	0.642	0.075	0.071	0.06	0.009	0.025						FP
Vital Diagnostics, Inc.	#1	22	1/7/2014	G	0	25	No	0.015	0.075	0.02	0.075	0.05	6.45		0.025			0.002			BP
Vital Diagnostics, Inc.	#1	22	1/27/2014	G	0	25	No	0.015	0.075	0.02	0.075	0.05	0.06		0.025			0.04			BP

Table: 27 NBC Significant Industrial User Sample Results

**Septage Monitoring Data - 2014**

Results in ppb

Sample No.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
BA52179	1/2/2014	15.0	15.0	108.9	75.0	17800	20.0	271.2	75.0	815.6	50.0	40.0	40.0	12430	60.0
BA53063	1/6/2014	29.5	15.0	171.9	75.0	16330	20.0	571.1	75.0	1285.0	50.0	267.8	40.0	20850	60.0
BA53064	1/8/2014	26.5	15.0	136.7	75.0	18110	20.0	569.2	75.0	1485.0	50.0	47.5	40.0	18360	60.0
BA53065	1/9/2014	18.0	15.0	118.3	75.0	8524	20.0	544.3	75.0	174.8	50.0	45.2	40.0	8686	60.0
BA53737	1/14/2014	15.0	15.0	106.7	75.0	1772	20.0	114.1	75.0	61.8	50.0	40.0	40.0	3655	60.0
BA53738	1/15/2014	15.0	15.0	75.0	75.0	1094	20.0	75.0	75.0	50.0	50.0	40.0	40.0	1749	60.0
BA53739	1/16/2014	20.7	15.0	96.5	75.0	12620	20.0	403.4	75.0	2165.0	50.0	40.0	40.0	14270	60.0
BA54481	1/21/2014	15.0	15.0	102.8	75.0	2771	20.0	310.2	75.0	89.7	50.0	40.0	40.0	8494	60.0
BA54482	1/23/2014	34.6	15.0	288.3	75.0	19770	20.0	1234.0	75.0	360.2	50.0	149.5	40.0	17580	60.0
BA54483	1/24/2014	63.6	15.0	209.8	75.0	7889	20.0	640.0	75.0	726.1	50.0	40.0	40.0	19920	60.0
BA55064	1/28/2014	15.0	15.0	75.0	75.0	519.7	20.0	75.0	75.0	63.6	50.0	40.0	40.0	812.9	60.0
BA55065	1/29/2014	15.0	15.0	75.0	75.0	271.2	20.0	75.0	75.0	50.0	50.0	40.0	40.0	557.6	60.0
BA55066	1/30/2014	15.0	15.0	75.0	75.0	761.3	20.0	75.0	75.0	97.9	50.0	40.0	40.0	1086	60.0
BA55861	2/4/2014	15.0	15.0	107.6	75.0	4739	20.0	185.2	75.0	437.5	50.0	48.8	40.0	7292	60.0
BA55862	2/6/2014	26.1	15.0	232.0	75.0	8480	20.0	365.6	75.0	817.0	50.0	85.3	40.0	14180	60.0
BA55863	2/7/2014	15.0	15.0	100.8	75.0	4688	20.0	166.2	75.0	416.4	50.0	50.7	40.0	6845	60.0
BA56267	2/10/2014	21.0	15.0	337.4	75.0	23690	20.0	654.5	75.0	787.5	50.0	40.0	40.0	15200	60.0
BA56268	2/11/2014	21.3	15.0	137.9	75.0	3742	20.0	264.7	75.0	211.4	50.0	40.0	40.0	5550	60.0
BA56269	2/12/2014	15.0	15.0	75.0	75.0	6294	20.0	158.9	75.0	564.4	50.0	40.0	40.0	7500	60.0
BA56978	2/17/2014	18.9	15.0	190.8	75.0	12320	20.0	632.5	75.0	259.8	50.0	40.0	40.0	15130	60.0
BA56977	2/20/2014	15.0	15.0	100.3	75.0	14900	20.0	407.0	75.0	688.9	50.0	40.0	40.0	14360	60.0
BA56976	2/21/2014	70.0	15.0	298.2	75.0	11430	20.0	814.5	75.0	588.5	50.0	245.9	40.0	25130	60.0
BA57654	2/27/2014	15.0	15.0	89.8	75.0	9583	20.0	302.5	75.0	83.6	50.0	40.0	40.0	4940	60.0
BA57653	2/28/2014	15.0	15.0	89.7	75.0	2476	20.0	154.8	75.0	161.0	50.0	40.0	40.0	8156	60.0
BA57652	3/1/2014	15.0	15.0	75.0	75.0	1457	20.0	84.0	75.0	99.2	50.0	40.0	40.0	4918	60.0
BA58251	3/5/2014	15.0	15.0	75.0	75.0	10340	20.0	314.7	75.0	172.6	50.0	40.0	40.0	11020	60.0
BA58252	3/6/2014	24.0	15.0	159.1	75.0	4236	20.0	307.3	75.0	314.9	50.0	40.0	40.0	15470	60.0
BA58253	3/7/2014	32.0	15.0	216.3	75.0	11920	20.0	676.0	75.0	363.4	50.0	40.0	40.0	19010	60.0
BA58688	3/13/2014	20.1	15.0	123.8	75.0	13660	20.0	376.0	75.0	186.5	50.0	40.0	40.0	7791	60.0
BA58689	3/14/2014	28.0	15.0	103.0	75.0	7059	20.0	303.6	75.0	178.9	50.0	40.0	40.0	26000	60.0
BA58690	3/15/2014	15.0	15.0	75.0	75.0	3278	20.0	181.9	75.0	88.4	50.0	40.0	40.0	7204	60.0
BA58750	3/20/2014	15.0	15.0	75.0	75.0	1068	20.0	350.6	75.0	50.0	50.0	40.0	40.0	2085	60.0
BA58751	3/21/2014	15.0	15.0	75.0	75.0	3113	20.0	950.2	75.0	63.4	50.0	40.0	40.0	4705	60.0
BA58752	3/22/2014	15.0	15.0	75.0	75.0	9889	20.0	215.3	75.0	155.3	50.0	40.0	40.0	6199	60.0
BA60414	3/27/2014	15.4	15.0	98.0	75.0	6939	20.0	763.3	75.0	109.0	50.0	40.0	40.0	9003	60.0

All values that were at or below the detection limit were reported at the detection limit

Table 28: Septage Sampling Data

**Septage Monitoring Data - 2014**

Results in ppb

Sample No.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
BA60415	3/28/2014	17.6	15.0	123.0	75.0	8869	20.0	460.8	75.0	165.7	50.0	47.9	40.0	17930	60.0
BA60416	3/29/2014	66.0	15.0	196.1	75.0	52590	20.0	829.8	75.0	247.0	50.0	40.0	40.0	20960	60.0
BA61137	4/3/2014	33.3	15.0	265.7	75.0	28900	20.0	800.2	75.0	453.4	50.0	40.0	40.0	18720	60.0
BA61136	4/4/2014	18.5	15.0	129.0	75.0	15910	20.0	454.0	75.0	164.8	50.0	40.0	40.0	16310	60.0
BA61135	4/5/2014	34.6	15.0	145.6	75.0	18320	20.0	1429.0	75.0	167.1	50.0	40.0	40.0	17060	60.0
BA61804	4/9/2014	15.0	15.0	143.7	75.0	23280	20.0	751.2	75.0	151.6	50.0	40.0	40.0	13550	60.0
BA61803	4/10/2014	15.0	15.0	75.0	75.0	4258	20.0	124.4	75.0	59.6	50.0	40.0	40.0	5112	60.0
BA61802	4/11/2014	15.0	15.0	75.0	75.0	1810	20.0	149.7	75.0	50.0	50.0	40.0	40.0	5551	60.0
BA62487	4/17/2014	15.0	15.0	75.0	75.0	1986	20.0	81.9	75.0	50.0	50.0	40.0	40.0	2223	60.0
BA62488	4/18/2014	15.0	15.0	75.0	75.0	2001	20.0	75.0	75.0	50.0	50.0	40.0	40.0	2261	60.0
BA62489	4/19/2014	22.3	15.0	317.5	75.0	14620	20.0	547.9	75.0	160.2	50.0	40.0	40.0	15250	60.0
BA63160	4/22/2014	15.0	15.0	75.0	75.0	336.7	20.0	75.0	75.0	50.0	50.0	40.0	40.0	570.1	60.0
BA63161	4/23/2014	15.0	15.0	75.0	75.0	2808	20.0	75.0	75.0	73.5	50.0	40.0	40.0	5073	60.0
BA63162	4/24/2014	15.0	15.0	75.0	75.0	550.9	20.0	100.9	75.0	50.0	50.0	40.0	40.0	1250	60.0
BA63808	5/1/2014	15.0	15.0	75.0	75.0	940.3	20.0	107.2	75.0	50.0	50.0	40.0	40.0	2176	60.0
BA63809	5/2/2014	15.0	15.0	95.3	75.0	5329	20.0	316.8	75.0	151.6	50.0	40.0	40.0	8768	60.0
BA63810	5/3/2014	15.0	15.0	75.0	75.0	2398	20.0	206.9	75.0	103.4	50.0	40.0	40.0	6166	60.0
BA64482	5/5/2014	23.7	15.0	170.8	75.0	14140	20.0	676.2	75.0	999.5	50.0	40.6	40.0	20920	60.0
BA64483	5/6/2014	25.2	15.0	165.7	75.0	7749	20.0	1165.0	75.0	173.3	50.0	130.7	40.0	12610	60.0
BA64484	5/7/2014	25.6	15.0	367.1	75.0	13330	20.0	805.2	75.0	395.7	50.0	48.8	40.0	28910	60.0
BA65228	5/15/2014	27.3	15.0	253.5	75.0	9754	20.0	709.5	75.0	392.6	50.0	43.5	40.0	24690	60.0
BA65227	5/16/2014	48.3	15.0	423.8	75.0	25500	20.0	1544.0	75.0	449.8	50.0	68.1	40.0	42870	60.0
BA65226	5/17/2014	19.3	15.0	242.0	75.0	9175	20.0	867.9	75.0	319.0	50.0	729.5	40.0	15780	60.0
BA66013	5/19/2014	15.0	15.0	75.0	75.0	4681	20.0	279.3	75.0	354.8	50.0	40.0	40.0	8080	60.0
BA66012	5/20/2014	15.0	15.0	75.0	75.0	1294	20.0	120.1	75.0	85.0	50.0	40.0	40.0	5377	60.0
BA66011	5/21/2014	15.0	15.0	75.0	75.0	1502	20.0	86.7	75.0	50.0	50.0	40.0	40.0	2121	60.0
BA66697	5/29/2014	15.0	15.0	75.0	75.0	2158	20.0	140.7	75.0	70.7	50.0	40.0	40.0	4618	60.0
BA66698	5/30/2014	15.0	15.0	75.0	75.0	2664	20.0	108.1	75.0	67.1	50.0	40.0	40.0	7464	60.0
BA66699	5/31/2014	15.0	15.0	75.0	75.0	1669	20.0	108.1	75.0	55.7	50.0	40.0	40.0	5124	60.0
BA67464	6/5/2014	15.0	15.0	75.0	75.0	3784	20.0	220.6	75.0	60.6	50.0	40.0	40.0	6362	60.0
BA67463	6/6/2014	16.0	15.0	75.0	75.0	3011	20.0	1075.0	75.0	73.9	50.0	42.5	40.0	5190	60.0
BA67462	6/7/2014	15.0	15.0	114.1	75.0	11800	20.0	930.2	75.0	159.0	50.0	40.0	40.0	15000	60.0
BA68183	6/9/2014	31.3	15.0	213.2	75.0	10110	20.0	560.1	75.0	223.1	50.0	40.0	40.0	18210	60.0
BA68184	6/10/2014	29.7	15.0	173.9	75.0	18660	20.0	732.2	75.0	218.1	50.0	40.0	40.0	24680	60.0
BA68185	6/14/2014	27.6	15.0	209.7	75.0	13280	20.0	1424.0	75.0	235.7	50.0	40.0	40.0	17660	60.0

All values that were at or below the detection limit were reported at the detection limit

Table 28: Septage Sampling Data



**Septage Monitoring Data - 2014**

Results in ppb

Sample No.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
BA68863	6/16/2014	30.9	15.0	365.9	75.0	11400	20.0	1341.0	75.0	585.5	50.0	94.1	40.0	18480	60.0
BA68864	6/17/2014	15.0	15.0	75.0	75.0	1394	20.0	77.3	75.0	65.3	50.0	40.0	40.0	3058	60.0
BA68865	6/18/2014	17.5	15.0	154.4	75.0	11340	20.0	544.5	75.0	207.9	50.0	50.5	40.0	13360	60.0
BA69517	6/24/2014	24.8	15.0	154.6	75.0	10510	20.0	509.6	75.0	278.1	50.0	63.7	40.0	14040	60.0
BA69518	6/25/2014	35.4	15.0	338.2	75.0	20670	20.0	1483.0	75.0	355.3	50.0	41.2	40.0	24320	60.0
BA69519	6/26/2014	15.7	15.0	222.0	75.0	7707	20.0	675.9	75.0	204.0	50.0	40.0	40.0	16060	60.0
BA70285	7/1/2014	15.0	15.0	75.0	75.0	1712	20.0	96.0	75.0	107.5	50.0	40.0	40.0	2819	60.0
BA70286	7/2/2014	17.1	15.0	140.6	75.0	8988	20.0	618.9	75.0	232.1	50.0	40.0	40.0	16120	60.0
BA70287	7/3/2014	15.0	15.0	165.2	75.0	2775	20.0	352.9	75.0	121.1	50.0	40.0	40.0	9851	60.0
BA70993	7/10/2014	15.0	15.0	75.0	75.0	2531	20.0	102.5	75.0	51.1	50.0	40.0	40.0	3428	60.0
BA70994	7/11/2014	21.1	15.0	194.6	75.0	15540	20.0	1123.0	75.0	725.4	50.0	40.0	40.0	18190	60.0
BA70995	7/12/2014	15.0	15.0	167.3	75.0	18550	20.0	694.1	75.0	171.2	50.0	40.0	40.0	13420	60.0
BA71469	7/16/2014	15.0	15.0	75.0	75.0	3077	20.0	75.0	75.0	50.0	50.0	40.0	40.0	6721	60.0
BA71471	7/18/2014	15.0	15.0	75.0	75.0	589.4	20.0	75.0	75.0	112.8	50.0	40.0	40.0	1836	60.0
BA71470	7/19/2014	15.0	15.0	85.4	75.0	20020	20.0	688.6	75.0	82.7	50.0	40.0	40.0	6413	60.0
BA71822	7/24/2014	25.8	15.0	163.0	75.0	19610	20.0	701.8	75.0	977.3	50.0	45.7	40.0	20490	60.0
BA71823	7/25/2014	15.0	15.0	75.0	75.0	2422	20.0	123.0	75.0	50.0	50.0	40.0	40.0	4108	60.0
BA71824	7/26/2014	15.0	15.0	75.0	75.0	2475	20.0	177.5	75.0	171.0	50.0	40.0	40.0	5057	60.0
BA73287	7/28/2014	25.7	15.0	374.2	75.0	13660	20.0	636.9	75.0	498.7	50.0	40.0	40.0	21110	60.0
BA73286	7/29/2014	15.0	15.0	120.6	75.0	4712	20.0	234.8	75.0	162.9	50.0	40.0	40.0	9798	60.0
BA73285	7/30/2014	25.6	15.0	204.5	75.0	21870	20.0	535.0	75.0	481.3	50.0	40.0	40.0	30010	60.0
BA73957	8/6/2014	18.0	15.0	173.3	75.0	6362	20.0	2113.0	75.0	283.1	50.0	41.9	40.0	20720	60.0
BA73958	8/7/2014	24.2	15.0	188.6	75.0	8152	20.0	594.5	75.0	214.6	50.0	40.0	40.0	19460	60.0
BA73959	8/8/2014	17.1	15.0	172.0	75.0	8063	20.0	604.8	75.0	223.8	50.0	40.0	40.0	17040	60.0
BA74626	8/14/2014	39.2	15.0	300.2	75.0	35690	20.0	1210.0	75.0	352.9	50.0	44.5	40.0	46680	60.0
BA74627	8/15/2014	15.0	15.0	80.3	75.0	2638	20.0	2610.0	75.0	73.8	50.0	40.0	40.0	8558	60.0
BA74628	8/16/2014	15.0	15.0	93.2	75.0	2076	20.0	75.0	75.0	342.9	50.0	40.0	40.0	8129	60.0
BA75256	8/18/2014	15.0	15.0	75.0	75.0	1710	20.0	154.0	75.0	196.0	50.0	40.0	40.0	2520	60.0
BA75255	8/19/2014	36.4	15.0	400.0	75.0	9120	20.0	704.0	75.0	304.0	50.0	69.5	40.0	16000	60.0
BA75254	8/20/2014	15.0	15.0	137.0	75.0	3460	20.0	248.0	75.0	112.0	50.0	40.0	40.0	6740	60.0
BA75947	8/27/2014	15.0	15.0	75.0	75.0	589	20.0	75.0	75.0	178.0	50.0	1470.0	40.0	3050	60.0
BA75948	8/28/2014	28.7	15.0	162.0	75.0	3920	20.0	432.0	75.0	580.0	50.0	2650.0	40.0	13800	60.0
BA75949	8/29/2014	19.5	15.0	125.0	75.0	2740	20.0	295.0	75.0	404.0	50.0	1520.0	40.0	9720	60.0
BA76720	9/3/2014	15.0	15.0	75.0	75.0	814	20.0	96.4	75.0	144.0	50.0	394.0	40.0	3570	60.0
BA76721	9/4/2014	15.0	15.0	75.0	75.0	11900	20.0	224.0	75.0	235.0	50.0	40.0	40.0	8960	60.0

All values that were at or below the detection limit were reported at the detection limit

Table 28: Septage Sampling Data

**Septage Monitoring Data - 2014**

Results in ppb

Sample No.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
BA76722	9/5/2014	15.0	15.0	121.0	75.0	6900	20.0	1760.0	75.0	109.0	50.0	40.0	40.0	7820	60.0
BA77294	9/11/2014	15.1	15.0	110.0	75.0	11800	20.0	689.0	75.0	124.0	50.0	40.0	40.0	11600	60.0
BA77295	9/12/2014	29.3	15.0	147.0	75.0	8470	20.0	282.0	75.0	303.0	50.0	40.0	40.0	14000	60.0
BA77296	9/13/2014	15.0	15.0	85.8	75.0	6180	20.0	200.0	75.0	316.0	50.0	42.3	40.0	7920	60.0
BA78038	9/18/2014	31.5	15.0	174.0	75.0	9150	20.0	428.0	75.0	258.0	50.0	62.5	40.0	20300	60.0
BA78037	9/19/2014	15.0	15.0	75.0	75.0	18800	20.0	314.0	75.0	199.0	50.0	40.0	40.0	10600	60.0
BA78036	9/20/2014	42.7	15.0	225.0	75.0	14700	20.0	848.0	75.0	281.0	50.0	60.1	40.0	20900	60.0
BA78722	9/25/2014	15.0	15.0	75.0	75.0	987	20.0	75.0	75.0	50.4	50.0	40.0	40.0	2390	60.0
BA78723	9/26/2014	15.0	15.0	75.0	75.0	1170	20.0	75.0	75.0	50.0	50.0	40.0	40.0	1910	60.0
BA78724	9/27/2014	21.8	15.0	133.0	75.0	5110	20.0	866.0	75.0	157.0	50.0	40.0	40.0	17100	60.0
BA79551	9/29/2014	15.0	15.0	94.6	75.0	6010	20.0	303.0	75.0	251.0	50.0	40.0	40.0	11200	60.0
BA79552	9/30/2014	15.0	15.0	75.0	75.0	1280	20.0	75.0	75.0	50.0	50.0	40.0	40.0	2460	60.0
BA79553	10/1/2014	24.1	15.0	269.0	75.0	4750	20.0	438.0	75.0	223.0	50.0	251.0	40.0	21200	60.0
BA80209	10/9/2014	15.0	15.0	75.0	75.0	647	20.0	75.0	75.0	50.0	50.0	40.0	40.0	876	60.0
BA80208	10/10/2014	15.0	15.0	75.0	75.0	1260	20.0	78.9	75.0	78.6	50.0	40.0	40.0	2230	60.0
BA80207	10/11/2014	15.0	15.0	75.0	75.0	286	20.0	75.0	75.0	50.0	50.0	40.0	40.0	1160	60.0
BA80970	10/16/2014	54.9	15.0	196.0	75.0	6800	20.0	1110.0	75.0	550.0	50.0	60.5	40.0	15100	60.0
BA80969	10/17/2014	15.0	15.0	75.0	75.0	6210	20.0	75.0	75.0	312.0	50.0	40.0	40.0	3160	60.0
BA80968	10/18/2014	24.0	15.0	81.6	75.0	19100	20.0	658.0	75.0	785.0	50.0	60.5	40.0	12200	60.0
BA81650	10/23/2014	15.0	15.0	75.0	75.0	3500	20.0	141.0	75.0	67.8	50.0	40.0	40.0	7220	60.0
BA81651	10/24/2014	15.8	15.0	89.3	75.0	8420	20.0	378.0	75.0	98.4	50.0	40.0	40.0	8980	60.0
BA81652	10/25/2014	47.2	15.0	273.0	75.0	17500	20.0	1030.0	75.0	243.0	50.0	44.5	40.0	25600	60.0
BA82384	10/27/2014	27.5	15.0	207.0	75.0	9480	20.0	211.0	75.0	253.0	50.0	40.0	40.0	24000	60.0
BA82382	10/30/2014	54.8	15.0	311.0	75.0	17700	20.0	491.0	75.0	347.0	50.0	44.2	40.0	26500	60.0
BA82383	11/1/2014	21.5	15.0	185.0	75.0	5380	20.0	312.0	75.0	221.0	50.0	40.1	40.0	15100	60.0
BA83056	11/3/2014	15.0	15.0	105.0	75.0	5790	20.0	230.0	75.0	119.0	50.0	40.0	40.0	10700	60.0
BA83057	11/4/2014	22.3	15.0	156.0	75.0	7310	20.0	374.0	75.0	223.0	50.0	82.7	40.0	16100	60.0
BA83058	11/5/2014	15.0	15.0	79.9	75.0	3750	20.0	170.0	75.0	108.0	50.0	40.9	40.0	8610	60.0
BA83714	11/12/2014	15.0	15.0	75.0	75.0	7960	20.0	122.0	75.0	50.0	50.0	40.0	40.0	1530	60.0
BA83715	11/13/2014	15.0	15.0	75.0	75.0	3810	20.0	133.0	75.0	94.9	50.0	40.0	40.0	5570	60.0
BA83713	11/14/2014	15.0	15.0	75.0	75.0	8040	20.0	75.8	75.0	50.0	50.0	40.0	40.0	1610	60.0
BA84448	11/20/2014	15.0	15.0	94.1	75.0	31400	20.0	1070.0	75.0	386.0	50.0	40.0	40.0	15700	60.0
BA84447	11/21/2014	15.0	15.0	75.0	75.0	9810	20.0	307.0	75.0	98.7	50.0	40.0	40.0	5080	60.0
BA84446	11/22/2014	38.7	15.0	330.0	75.0	32600	20.0	1170.0	75.0	534.0	50.0	72.5	40.0	40300	60.0
BA85002	11/24/2014	15.0	15.0	75.0	75.0	1290	20.0	75.0	75.0	50.0	50.0	40.0	40.0	1690	60.0

All values that were at or below the detection limit were reported at the detection limit

Table 28: Septage Sampling Data

**Septage Monitoring Data - 2014**

Results in ppb

Sample No.	DATE	Cd	Cd MDL	Cr	Cr MDL	Cu	Cu MDL	Pb	Pb MDL	Ni	Ni MDL	Ag	Ag MDL	Zn	Zn MDL
BA85001	11/25/2014	15.0	15.0	75.0	75.0	948	20.0	75.0	75.0	92.5	50.0	40.0	40.0	4290	60.0
BA85000	11/26/2014	15.0	15.0	75.0	75.0	363	20.0	75.0	75.0	50.0	50.0	40.0	40.0	1490	60.0
BA85868	12/1/2014	21.2	15.0	178.0	75.0	8920	20.0	789.0	75.0	179.0	50.0	40.0	40.0	13500	60.0
BA85869	12/3/2014	15.0	15.0	75.0	75.0	1390	20.0	75.0	75.0	50.0	50.0	40.0	40.0	2130	60.0
BA85870	12/4/2014	15.0	15.0	144.0	75.0	8600	20.0	460.0	75.0	162.0	50.0	40.0	40.0	11500	60.0
BA86530	12/11/2014	15.0	15.0	128.0	75.0	8400	20.0	1240.0	75.0	147.0	50.0	40.0	40.0	12800	60.0
BA86531	12/12/2014	18.1	15.0	102.0	75.0	6690	20.0	365.0	75.0	133.0	50.0	40.0	40.0	10500	60.0
BA86532	12/13/2014	36.0	15.0	332.0	75.0	45900	20.0	638.0	75.0	358.0	50.0	40.0	40.0	22500	60.0
BA87314	12/17/2014	37.5	15.0	265.0	75.0	12400	20.0	979.0	75.0	200.0	50.0	106.0	40.0	14000	60.0
BA87315	12/18/2014	29.0	15.0	238.0	75.0	8150	20.0	545.0	75.0	155.0	50.0	40.0	40.0	14600	60.0
BA87316	12/21/2014	28.2	15.0	253.0	75.0	20700	20.0	887.0	75.0	375.0	50.0	55.4	40.0	13400	60.0
BA87877	12/22/2014	150.0	15.0	1130.0	75.0	36300	20.0	3210.0	75.0	724.0	50.0	594.0	40.0	22500	60.0
BA87875	12/23/2014	167.0	15.0	1480.0	75.0	45100	20.0	3700.0	75.0	867.0	50.0	691.0	40.0	24700	60.0
BA87876	12/24/2014	15.0	15.0	75.0	75.0	5010	20.0	192.0	75.0	62.3	50.0	40.0	40.0	4960	60.0
BA88485	12/29/2014	16.5	15.0	100.0	75.0	3860	20.0	1590.0	75.0	145.0	50.0	40.0	40.0	6930	60.0
BA88486	12/30/2014	15.0	15.0	75.0	75.0	1200	20.0	84.8	75.0	50.0	50.0	40.0	40.0	1970	60.0
BA88484	12/31/2014	99.9	15.0	624.0	75.0	31200	20.0	3020.0	75.0	447.0	50.0	412.0	40.0	16300	60.0

All values that were at or below the detection limit were reported at the detection limit

Table 28: Septage Sampling Data

**Metals Loading to Bucklin Point from Septage (lbs/yr)**

<b>Year</b>	<b>Cadmium</b>	<b>Chromium</b>	<b>Copper</b>	<b>Lead</b>	<b>Nickel</b>	<b>Silver</b>	<b>Zinc</b>	<b>Total Metals</b>	<b>MGY</b>
<b>1996</b>	4.5	77.6	946.0	167.0	33.9	19.6	1414	2663	14.7600
<b>1997</b>	3.9	33.2	806.0	113.0	27.4	10.3	1060	2054	14.2200
<b>1998</b>	4.5	29.2	830.0	93.0	31.0	5.7	1016	2009	17.5300
<b>1999</b>	3.4	26.5	623.0	61.0	20.0	4.1	849	1587	21.5000
<b>2000</b>	2.8	21.8	591.0	53.0	26.7	4.1	873	1572	23.3400
<b>2001</b>	1.5	20.7	436.0	42.3	22.4	4.2	633	1160	17.3900
<b>2002</b>	0.95	8.2	322.6	30.4	22.8	33.1	473	892	17.0360
<b>2003</b>	0.89	3.8	196.4	15.9	7.1	4.2	299	527	13.0331
<b>2004</b>	0.90	5.0	256.3	15.9	8.9	3.3	321	612	9.1004
<b>2005</b>	0.93	7.9	349.9	25.5	11.3	1.9	458	855	8.9612
<b>2006</b>	1.35	8.8	416.0	24.2	13.2	3.3	495	961	9.3629
<b>2007</b>	1.5	11.5	532.3	28.2	14.8	4.2	605	1197	8.5260
<b>2008</b>	2.8	10.5	440.3	19.8	9.5	5.3	508	996	9.3012
<b>2009</b>	1.5	12.1	435.4	23.0	11.6	4.2	554	1042	9.0800
<b>2010</b>	1.4	12.5	505.1	30.7	15.5	3.3	640	1208	8.0228
<b>2011</b>	1.6	21.1	558.4	35.8	16.8	5.1	745	1384	7.0695
<b>2012</b>	1.6	17.7	775.6	39.0	22.5	3.4	989	1848	7.0769
<b>2013</b>	1.9	9.7	545.4	35.9	17.0	5.0	688	1303	7.2422
<b>2014</b>	1.5	10.5	606.7	36.2	15.9	7.0	780.8	1459	7.9219

Table 29: Septage Summary 1996-2014

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS							TSS AND CHLOROPHYLL PARAMETERS			COMMENTS
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)	
<b>BAY</b>																		
01/08/14	1:55 PM	Phillipsdale Landing	BAY	0.5		0.68	7.58	304.00	3.31	98.10	50.10	909.0	863.0	615.0	266	3.553	6.318	Surface
01/08/14	2:00 PM	Phillipsdale Landing	BAY			1.86	7.08	308.00	4.41	62.50	45.90	949.0	801.0	552.0	274			Bottom
02/19/14	1:40 PM	Phillipsdale Landing	BAY	0.2	16.3	1.71	7.11	1050.00	15.00	163.00	196.00	2360.0	1700.0	1570.0	108	1.479	0.8474	Surface
02/19/14	1:40 PM	Phillipsdale Landing	BAY	1.1	22.33	1.67	7.08	1080.00	17.10	161.00	188.00	2280.0	1660.0	1380.0	98			Bottom
02/19/14	1:40 PM	Phillipsdale Landing	BAY	1.1	22.33	1.67	7.08	1140.00	14.10	161.00	197.00	2320.0	1720.0	1430.0	102			Bottom Duplicate
02/20/14	10:00 AM	Conimicut Point	BAY	0.5	26.53	1.2	8.14	167.00	<1.5	15.20	10.00	407.0	608.0	325.0	328	5.699	0.9914	Surface
02/20/14	10:10 AM	Conimicut Point	BAY	9.0	30.31	1.29	8	45.10	<1.5	<7.0	5.79	185.0	540.0	171.0	384			Bottom
02/20/14	12:55 PM	Edgewood Yacht Club	BAY	0.5	37.14	3.33	8	249.00	4.52	49.30	25.60	524.0	828.0	436.0	338	5.517	1.055	Surface
02/20/14	1:00 PM	Edgewood Yacht Club	BAY	5.0	29.4	2.18	7.76	65.60	<1.5	17.40	9.04	231.0	586.0	275.0	370			Bottom
02/20/14	1:45 PM	India Point Park	BAY	0.5	20.72	2.82	8.01	300.00	3.03	64.20	34.50	726.0	808.0	513.0	386	7.118	1.536	Surface
02/20/14	1:50 PM	India Point Park	BAY	9.0	29.15	1.59	8.03	124.00	<1.5	26.40	18.00	336.0	617.0	282.0	354			Bottom
02/20/14	10:50 AM	Pawtuxet @ Red Can	BAY	0.5	6.47	1.87	7.07	344.00	5.33	78.50	31.20	800.0	810.0	574.0	286	6.143	1.07	Surface
02/20/14	11:00 AM	Pawtuxet @ Red Can	BAY	11.5	26.37	1.08	8.09	253.00	3.92	51.40	22.60	586.0	743.0	442.0	324			Bottom
02/20/14	1:15 PM	Pomham Rocks	BAY	0.5	19.59	3.57	7.98	51.10	<1.5	<7.0	7.43	193.0	518.0	209.0	372	8.636	1.628	Surface
02/20/14	1:20 PM	Pomham Rocks	BAY	9.0	29.71	1.33	8.02	42.30	<1.5	14.50	11.00	166.0	503.0	206.0	300			Bottom
02/20/14	10:25 AM	Bullocks Reach Buoy	BAY	0.5	27.19	1.49	8.17	132.00	<1.5	11.70	11.30	350.0	591.0	331.0	330	5.761	0.9881	Surface
02/20/14	10:30 AM	Bullocks Reach Buoy	BAY	9.0	29.69	1.09	8.05	30.10	<1.5	<7.0	7.27	148.0	535.0	199.0	370			Bottom
04/02/14	1:40 PM	Phillipsdale Landing	BAY	0.5		6.56	7.36	639	11.1	88.5	82.8	1480	900	983	12	2.016	1.746	Surface
04/02/14	1:45 PM	Phillipsdale Landing	BAY	1.5		6.53	7.24	626	10.6	91.8	83.3	1580	931	971	8			Bottom
04/16/14	1:00 PM	Phillipsdale Landing	BAY			12.22	7.99	833.00	22.60	128.00	119.00	1890.0	1240.0	1300	14	7.666	5.798	Surface
04/30/14	1:28 PM	Phillipsdale Landing	BAY			8.99	7.68	202	4.84	98.4	30.8	590	848	450	68	3.313	4.831	Surface
04/30/14	1:33 PM	Phillipsdale Landing	BAY			8.97	7.63	194	4.5	100	29.1	589	772	442	72			Bottom
05/14/14	1:25 PM	Phillipsdale Landing	BAY			15.88	7.75	459	6.62	64.6	90.9	1030	976	977	62			Surface
05/28/14	9:38 AM	Conimicut Point	BAY	0.5	23.32	15.14	7.93	97.6	3.84	20.9	15.8	710	586	261	44	4.598	2.817	Surface
05/28/14	9:40 AM	Conimicut Point	BAY					8.37	1.5	17.7	13.1	476	304	129	15			Bottom
05/28/14	1:00 PM	Edgewood Yacht Club	BAY	0.5	24.76	14.30	7.81	77.7	3.81	8.41	17.8	707	482	311	15	10.96	6.177	Surface
05/28/14	1:05 PM	Edgewood Yacht Club	BAY					36.3	2.19	29.9	16.9	615	452	191	34			Bottom
05/28/14	10:35 AM	Pomham Rocks	BAY	0.5	25.00	14.22	7.70	85.3	2.89	32.2	21.6	685	415	269	13	6.884	4.077	Surface
05/28/14	10:38 AM	Pomham Rocks	BAY					11.7	1.5	27.3	17.8	529	315	150	6			Bottom
05/28/14	1:28 PM	India Point Park	BAY	0.5	17.07	14.55	7.48	290	7.19	97.9	46.2	1110	479	581	37	3.832	4.09	Surface
05/28/14	1:32 PM	India Point Park	BAY					77.9	2.98	99.8	31.9	673	479	352	35			Bottom
05/28/14	2:02 PM	Phillipsdale Landing	BAY	0.5	13.90	15.12	7.41	384	8.31	109	66.5	1250	789	758	28	8.296	5.913	Surface
05/28/14	2:10 PM	Phillipsdale Landing	BAY					127	5.21	102	39.8	786	572	396	25			Bottom
05/28/14	8:55 AM	Bullocks Reach Buoy	BAY	0.5	21.88	15.26	7.87	140	4.83	35.5	20.3	819	457	355	17	4.639	2.946	Surface
05/28/14	9:00 AM	Bullocks Reach Buoy	BAY					23.4	<1.5	17.2	11.6	525	381	188	21	4.541	2.392	Middle
05/28/14	9:05 AM	Bullocks Reach Buoy	BAY					11.2	<1.5	14.6	13.5	487	283	143	20	2.571	2.472	Bottom
05/28/14	8:55 AM	Bullocks Reach Buoy	BAY	0.5	21.88	15.26	7.87									4.08	2.772	Surface
05/28/14	10:58 AM	Pawtuxet @ Red Can	BAY	0.5	7.00	15.58	7.60	642	11.6	51.2	23.4	1690	1060	1010	10	16.37	6.562	Surface
05/28/14	11:01 AM	Pawtuxet @ Red Can	BAY					331	8.06	55.8	26.4	1110	596	579	14			Bottom
06/11/14	8:53 AM	Conimicut Point	BAY	0.5	23.51	18.68	8.13	6.8	<1.5	<7.0	<5.00	425	513	187	14	24.88	8.608	Surface
06/11/14	9:02 AM	Conimicut Point	BAY	n/a	n/a	n/a	n/a	8.31	2.5	25.2	20.3	553	358	156	20			Bottom
06/11/14	2:35 PM	Edgewood Yacht Club	BAY	0.5	23.80	20.15	8.11	131	6.4	7.03	30.6	811	666	337	20	19.52	9.888	Surface
06/11/14	2:39 PM	Edgewood Yacht Club	BAY	n/a	n/a	n/a	n/a	39.8	4.45	85.8	30.4	648	499	278	14			Bottom
06/11/14	2:20 PM	Pomham Rocks	BAY	0.5	22.79	20.02	8.09	6.93	1.61	<7.0	15.3	569	713	281	18	17.31	11.05	Surface
06/11/14	2:25 PM	Pomham Rocks	BAY	n/a	n/a	n/a	n/a	16.9	3.83	132	48.3	663	503	270	18			Bottom
06/11/14	1:53 PM	India Point Park	BAY	0.5	16.21	18.59	7.77	266	9.35	27.2	45.2	1090	862	499	160	28.79	11.74	Surface
06/11/14	1:57 PM	India Point Park	BAY	n/a	n/a	n/a	n/a	40.7	3.74	102	38.1	611	449	278	24			Bottom
06/11/14	1:24 PM	Phillipsdale Landing	BAY	0.5	14.45	19.96	8.59	155	9.17	<7.0	33	1030	975	437	20	13.85		Surface
06/11/14	1:31 PM	Phillipsdale Landing	BAY	n/a	n/a	n/a	n/a	135	9.82	<7.0	43.1	1160	1380	354	362			Bottom
06/11/14	9:30 AM	Bullocks Reach Buoy	BAY	n/a	n/a	n/a	n/a	8.87	1.59	41	24	592	526	214	524			Bottom
06/11/14	9:18 AM	Bullocks Reach Buoy	BAY	0.5	22.54	18.62	8.10	19.3	2.86	<7.0	11	514	665	224	258	20.14	8.271	Surface
06/11/14	9:20 AM	Bullocks Reach Buoy	BAY	1.5	22.68	18.91	8.10	6	<1.5	<7.0	<5.00	403	690	177	346	16.95	8.65	Middle
06/11/14	8:33 AM	Pawtuxet @ Red Can	BAY	0.5	6.31	18.82	7.21	593	13.3	58.2	33.6	1430	1180	917	382	1.285	25.85	Surface
06/11/14	8:45 AM	Pawtuxet @ Red Can	BAY	n/a	n/a	n/a	n/a	128	6.46	64.9	36.8	810	809	385	352			Bottom
06/25/14	2:46 PM	Pomham Rocks	BAY	0.5	25.15	22.06	8.28	6.13	<1.5	<7.0	45.40	798.0	676	193	38	26.22	2.614	Surface
06/25/14	2:14 PM	India Point Park	BAY	n/a				7.36	<1.5	7.81	33.10	774.0	497	152	34			Bottom

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS							TSS AND CHLOROPHYLL PARAMETERS			COMMENTS
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)	
06/25/14	1:30 PM	Phillipsdale Landing	BAY	0.5	9.35	23.89	8.62	221.00	7.97	7.06	94.80	842.0	1470	517	17	33.82	7.17	Surface
06/25/14	1:40 PM	Phillipsdale Landing	BAY	n/a				37.20	1.87	124.00	139.00	1220.0	1050	536	17			Bottom
06/25/14	9:36 AM	Conimicut Point	BAY	0.5	28.74	20.55	8.13	<6.0	<1.5	<7.0	12.50	379.0	604	110	27	6.126	1.845	Surface
06/25/14	9:44 AM	Conimicut Point	BAY	n/a				6.29	<1.5	<7.0	20.60	468.0	378	193	24			Bottom
06/25/14	10:55 AM	Edgewood Yacht Club	BAY	0.5	25.69	21.40	8.09	14.90	<1.5	<7.0	36.90	745.0	643	309	20	11.32	3.252	Surface
06/25/14	11:00 AM	Edgewood Yacht Club	BAY	n/a				<6.0	<1.5	<7.0	35.70	713.0	665	176	31			Bottom
06/25/14	2:51 PM	Ponham Rocks	BAY	n/a				6.09	<1.5	23.10	31.60	638.0	489	180	24			Bottom
06/25/14	2:10 PM	India Point Park	BAY	0.5	19.97	22.13	8.10	38.40	1.79	16.20	73.30	1040.0	720	381	14	13.88	4.837	Surface
06/25/14	10:00 AM	Bullocks Reach	BAY	0.5	28.08	20.68	7.96	<6.0	<1.5	<7.0	23.00	529.0	589	356	22	8.841	4.563	Surface
06/25/14	10:14 AM	Bullocks Reach	BAY	mid				7.12	<1.5	<7.0	18.20	460.0	506	181	101	18.95	6.101	Middle
06/25/14	10:04 AM	Bullocks Reach	BAY	bottom				7.31	<1.5	32.30	30.40	590.0	417	219	28	7.572	6.335	Bottom
06/25/14	3:13 PM	Edgewood Shoal Surface	BAY	0.5	25.87	21.84	8.20									16.44	4.213	Surface
06/25/14	3:23 PM	Edgewood Shoal Bottom	BAY	n/a												13.16	6.312	Bottom
07/09/14	9:00 AM	Conimicut Point	BAY	0.5	26.56	23.09	7.97	7.58	<1.5	<7.0	11.3	661	563	179	6	12.55	1.898	Surface
07/09/14	2:10 PM	Edgewood Yacht Club	BAY	0.5	22.44	24.51	8.29	6.55	<1.5	<7.0	5.68	632	865	209	268	30.47	3.583	Surface
07/09/14	1:25 PM	Ponham Rocks	BAY	0.5	22.39	24.18	8.31	<6.0	<1.5	<7.0	31.9	628	1350	449	240	23.06		Surface
07/09/14	1:50 PM	India Point Park	BAY	0.5	12.40	25.22	8.66	475	9.32	<7.0	23	1610	1060	891	236	14.14	2.72	Surface
07/09/14	1:10 PM	Phillipsdale Landing	BAY	0.5	8.22	25.77	8.50	493	39.8	51.8	112	1130	1580	941	122	15.79		Surface
07/09/14	9:17 AM	Bullocks Reach Buoy	BAY	0.5	24.77	23.64	8.05	<6.0	<1.5	<7.0	8.2	623	794	299	86	22.33	2.074	Surface
07/09/14	9:20 AM	Bullocks Reach Buoy	BAY	2.0	n/a	n/a	n/a	<6.0	<1.5	<7.0	12	703	1050	195	< 2	14.39	2.496	Middle
07/09/14	9:25 AM	Bullocks Reach Buoy	BAY	n/a	n/a	n/a	n/a									32.11		Bottom
07/09/14	1:00 PM	Pawtuxet @ Red Can	BAY	0.5	10.42	24.97	7.68									8.952	2.546	Surface
07/09/14	8:35 AM	Edgewood Shoal Surface	BAY	0.1	23.28	23.50	8.27									15.02	4.809	Surface
07/09/14	8:40 AM	Edgewood Shoal Bottom	BAY	n/a	n/a	n/a	n/a									26.71	3.351	Bottom
07/23/14	9:25 AM	Conimicut Point	BAY	0.5	26.70	24.17	8.09	<6.0	<1.5	<7.0	24.8	872	543	184	342	16.1	3.63	Surface
07/23/14	9:30 AM	Conimicut Point	BAY					12	2.28	14.2	62.2	1300	524	198	440			Bottom
07/23/14	2:00 PM	Edgewood Yacht Club	BAY	0.5	22.83	25.00	8.17	10.9	<1.5	<7.0	40	910	569	199	378	23.59	4.539	Surface
07/23/14	2:05 PM	Edgewood Yacht Club	BAY					7.11	<1.5	<7.0	38.8	771	552	136	332			Bottom
07/23/14	1:07 PM	Ponham Rocks	BAY	0.5	22.29	25.34	8.27	7.9	<1.5	<7.0	31.8	813	550	212	398	28.56	5.1	Surface
07/23/14	1:12 PM	Ponham Rocks	BAY					26.3	5.98	130	81.5	1320	614	300	446			Bottom
07/23/14	1:35 PM	India Point Park	BAY	0.5	20.53	25.47	7.94	12.4	3.79	<7.0	145	1570	755	232	304	40.33	0.9484	Surface
07/23/14	1:40 PM	India Point Park	BAY					34	7.32	163	111	1380	581	369	374			Bottom
07/23/14	1:23 PM	Phillipsdale Landing	BAY		25.28		8.19	<6.0	3.74	18.3	225	1570	1600	523	220	13.84	<	Surface
07/23/14	1:28 PM	Phillipsdale Landing	BAY		24.70		7.85	<6.0	<1.5	54.8	314	1840	875	283	320			Bottom
07/23/14	9:40 PM	Bullocks Reach Buoy	BAY	0.5	24.68	24.46	8.19	<6.0	<1.5	<7.0	18.7	854	549	193	420	15.85	4.138	Surface
07/23/14	9:45 AM	Bullocks Reach Buoy	BAY					8.61	<1.5	<7.0	15.9	841	538	303	440	13.9	3.062	Middle
07/23/14	9:55 AM	Bullocks Reach Buoy	BAY					15.9	3.04	23.5	56.2	1220	510	171	454	15.42	3.37	Bottom
07/23/14	12:50 PM	Pawtuxet @ Red Can	BAY	0.5	11.72	25.64	7.90	457	15.4	<7.0	63.1	1630	946	732	232	32.55	<	Surface
07/23/14	1:00 PM	Pawtuxet @ Red Can	BAY					8.45	<1.5	<7.0	50.2	970	692	175	394			Bottom
08/06/14	9:18 AM	Conimicut Point	BAY	0.5	27.04		8.10	<6.0	<1.5	<7.0	48.40		610.0	287	266	20.2	3.8	Surface
08/06/14	9:37 AM	Bullocks Reach Buoy	BAY	0.5	26.09	24.48	8.27	7.61	<1.5	<7.0	46.20		602.0	350	270	23.2	6.4	Surface
08/06/14	9:40 AM	Bullocks Reach Buoy	BAY							<7.0						20.1	4.3	Middle
08/06/14	9:45 AM	Bullocks Reach Buoy	BAY							<7.0						6.8	3.0	Bottom
08/06/14	2:18 PM	Edgewood Yacht Club	BAY	0.5	24.95	25.66	8.36	7.84	<1.5	<7.0	69.30		668.0	226	270	30.1	11.4	Surface
08/06/14	2:18 PM	Edgewood Yacht Club	BAY	0.5	24.95	25.66	8.36	<6.0	<1.5	<7.0	70.90		652.0	189	260	31.4	11.4	Surface Duplicate
08/06/14	1:04 PM	Ponham Rocks	BAY	0.5	24.04	25.67	8.22	7.59	<1.5	<7.0	74.10		647.0	185	14	38.8	10.3	Surface
08/06/14	1:55 PM	India Point Park	BAY	0.5	22.35	25.29	8.06	12.00	3.39	<7.0	139.00		761.0	231	276	40.1	7.4	Surface
08/06/14	12:47 PM	Pawtuxet Red Can	BAY	0.5	24.76	14.19	8.28	<6.0	<1.5	<7.0	75.30		555.0	223	272	25.1	12.5	Surface
08/06/14	8:56 AM	Edgewood Shoals	BAY	0.5	25.97	24.38	8.21									24.2	7.6	Surface
08/06/14	9:06 AM	Edgewood Shoals	BAY													6.6	3.2	Bottom
08/06/14	1:36 PM	Phillipsdale Landing	BAY	0.5	16.86	26.16	8.65	101.00	8.45	<7.0	231.00		3090.0	405	126	242.1	10.0	Surface
08/20/14	8:59 AM	Conimicut Point	BAY	0.5	26.83	22.20	8.20	<6.0	<1.5	<7.0	25.5	590	548	288	30	10.043	3.167	Surface
08/20/14	9:04 AM	Conimicut Point	BAY					15.3	1.81	75.4	49.3	1050	571	340	26			Bottom
08/20/14	10:37 AM	Edgewood Yacht Club	BAY	0.5	25.88	23.04	8.05	<6.0	<1.5	<7.0	53.2	847	493	180	35	21.696	3.222	Surface
08/20/14	10:43 AM	Edgewood Yacht Club	BAY					8.23	<1.5	<7.0	46.6	872	578	158	43			Bottom
08/20/14	1:31 PM	Ponham Rocks	BAY	0.5	22.04	24.90	8.07	38.5	3.46	<7.0	84.9	950	884	274	41	46.006	4.664	Surface
08/20/14	1:36 PM	Ponham Rocks	BAY					32.7	3.2	125	68.7	1230	541	289	23			Bottom

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS							TSS AND CHLOROPHYLL PARAMETERS			COMMENTS
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)	
08/20/14	1:01 PM	India Point Park	BAY	0.5	23.32	21.67	7.38	104	8.2	70.5	112	1390	858	483	38	16.296	2.839	Surface
08/20/14	1:05 PM	India Point Park	BAY					23	3.48	165	93.9	1300	520	506	43			Bottom
08/20/14	2:05 PM	Phillipsdale Landing	BAY	0.5		25.47	8.35	108	10.9	67.7	160	1570	633	404	40	4.741	1.502	Surface
08/20/14	2:10 PM	Phillipsdale Landing	BAY	1.4		24.41	7.42	95.4	11.6	93	148	1620	732	391	42			Bottom
08/20/14	9:23 AM	Bullocks Reach Buoy	BAY	0.5	25.89	22.86	8.31	8.05	<1.5	<7.0	22.2	573	593	190	39	14.192	2.931	Surface
08/20/14	9:36 AM	Bullocks Reach Buoy	BAY					7.66	<1.5	<7.0	28.5	692	649	158	43	17.295	3.598	Middle
08/20/14	9:28 AM	Bullocks Reach Buoy	BAY					14.8	2.51	52.8	53.1	1160	560	354	42	11.585	2.209	Bottom
08/20/14	8:36 AM	Pawtuxet @ Red Can	BAY	0.5	10.20	21.64	7.40	504	28.5	29.5	53.6	1590	1090	793		5.172	1.566	Surface
08/20/14	8:42 AM	Pawtuxet @ Red Can	BAY					36.1	4.51	32.6	87.6	1240	632	339	49			Bottom
08/20/14	8:10 AM	Edgewood Shoals	BAY	0.5	26.35	22.17	8.23									20.246	3.602	Surface
08/20/14	8:24 AM	Edgewood Shoals	BAY													8.994	2.197	Bottom
09/03/14	9:17 AM	Conimicut Point	BAY	0.5	28.65	23.93	7.68	13.2	<1.5	27.3	54.4	1270	472	221	408	8.9	3.882	Surface
09/03/14	10:39 AM	Edgewood Yacht Club	BAY	0.5	26.80	24.25	7.71	6.41	<1.5	<7.0	88.6	1220	522	212	388	5.7	2.185	Surface Duplicate
09/03/14	10:39 AM	Edgewood Yacht Club	BAY	0.5	26.80	24.25	7.71	<6.0	<1.5	<7.0	89	1220	505	187	414	16.3	5.684	Surface
09/03/14	9:31 AM	Bullocks Reach Buoy	BAY	0.5	27.77	24.06	7.77	13.1	<1.5	<7.0	67.8	1270	480	187	426	18.3	5.138	Surface
09/03/14	9:41 AM	Bullocks Reach Buoy	BAY													7.1	3.968	Middle
09/03/14	9:46 AM	Bullocks Reach Buoy	BAY													1.7	2.495	Bottom
09/03/14	1:43 PM	Pomham Rocks	BAY	0.5	25.91	24.82	7.86	11.6	2.09	<7.0	95.7	1190	611	204	396	22.9	4.364	Surface
09/03/14	2:05 PM	India Point Park	BAY	0.5	24.19	25.76	7.82	38.2	3.78	32.1	108	1190	543	261	424	12.1	3.341	Surface
09/03/14	1:30 PM	Pawtuxet @ Red Can	BAY	0.5	16.04	24.98	7.49	701	6.01	69.2	92.5	1990	1410	1070	212	7.9	2.271	Surface
09/03/14	8:50 AM	Phillipsdale Landing	BAY	0.5	16.59	22.95	7.72	246	8.38	44	140	1040	1180	551	264	66.7	7.026	Surface
09/03/14	12:59 PM	Ohio Ledge	BAY	0.5	30.03	23.73	7.69	<6.0	<1.5	<7.0	31.5	1080	333	263	328			Surface
09/03/14	8:57 AM	Edgewood Shoals	BAY	0.5	26.91	24.26	7.80											Surface
09/03/14	9:03 AM	Edgewood Shoals	BAY															Bottom
09/17/14	8:51 AM	Conimicut Point	BAY	0.5	28.58	20.11	7.47	89.9	8.22	72.5	69.8	337	589	337	370	10.8	2.61	Surface
09/17/14	8:58 AM	Conimicut Point	BAY					26.8	4.3	85.3	48.5	340	537	340	404			Bottom
09/17/14	10:30 AM	Edgewood Yacht Club	BAY	0.5	28.58	21.05	7.30	83.4	10.2	156	92	517	719	517	412	8.099	2.297	Surface
09/17/14	10:30 AM	Edgewood Yacht Club	BAY	0.5	28.58	21.05	7.30	80.9	10.2	154	93	449	639	449	360	7.28	2.032	Surface Duplicate
09/17/14	10:36 AM	Edgewood Yacht Club	BAY					87.8	10.3	156	91	417	636	417	374			Bottom
09/17/14	2:09 PM	Pomham Rocks	BAY	0.5	28.33	21.92	7.54	99.9	10.1	94.8	96.7	396	684	396	390	4.882	0.7167	Surface
09/17/14	2:13 PM	Pomham Rocks	BAY					83.6	9.71	109	86.9	371	651	371	350			Bottom
09/17/14	2:44 PM	India Point Park	BAY	0.5	27.92	22.33	7.38	102	9.92	168	97.9	440	657	440	374	7.932	1.331	Surface
09/17/14	2:48 PM	India Point Park	BAY					32.5	4.97	170	78.3	467	604	467	408			Bottom
09/17/14	9:15 AM	Bullocks Reach Buoy	BAY	0.5	28.33	20.61	7.41	96	9.59	102	90.4	376	643	376	400	12.42	2.359	Surface
09/17/14	9:30 AM	Bullocks Reach Buoy	BAY													14.27	2.669	Middle
09/17/14	9:23 AM	Bullocks Reach Buoy	BAY					33	5.45	106	56.3	369	572	369	424	3.151	2.244	Bottom
09/17/14	9:52 AM	Pawtuxet @ Red Can	BAY	0.5	18.21	19.61	7.63	422	10.2	<7.0	67.7	758	1180	758	298	35.6	2	Surface
09/17/14	9:57 AM	Pawtuxet @ Red Can	BAY					99.8	11.7	109	97.9	399	710	399	366			Bottom
09/17/14	8:23 AM	Edgewood Shoals	BAY	0.5	28.47	20.41	7.42									17.39	2.251	Surface
09/17/14	8:28 AM	Edgewood Shoals	BAY													7.392	2.443	Surface
09/17/14	10:43 AM	Phillipsdale Landing	BAY					176	16.8	252	150	681	867	681	258	9.086	6.389	Surface
09/17/14	1:33 PM	Ohio Ledge	BAY			21.48	7.61	23.4	3.76	<7.0	38.7	195	433	195	328	17.73	2.5	Surface
09/17/14	1:38 PM	Ohio Ledge	BAY					<6.0	<1.5	<7.0	28.6	230	375	230	324			Bottom
10/01/14	9:01 AM	Conimicut Point	BAY	0.5	28.64	18.91	7.59	92.8	9.79	129	82.3	1010	629	379	30	6.32	2.752	Surface
10/01/14	10:12 AM	Edgewood Yacht Club	BAY	0.5	29.28	19.14	7.51	85.3	9.04	166	89.4	1010	631	410	32	3.859	2.14	Surface Duplicate
10/01/14	10:12 AM	Edgewood Yacht Club	BAY	0.5	29.28	19.14	7.51	81.6	9	163	89.9	1020	590	450	31	3.159	1.654	Surface
10/01/14	1:09 PM	Pomham Rocks	BAY	0.5	29.07	19.03	7.53	97.8	8.86	138	91.4	1020	615	412	32	6.496	2.29	Surface
10/01/14	1:29 PM	India Point Park	BAY	0.5	28.40	19.15	7.52	54.4	6.33	176	78.6	958	585	380	33	2.457	2.222	Surface
10/01/14	9:18 AM	Bullocks Reach Buoy	BAY	0.5	29.14	18.99	7.55	86.8	9.23	154	89.3	1000	594	415	46	4.67	2.649	Surface
10/01/14	9:30 AM	Bullocks Reach Buoy	BAY													4.083	2.664	Surface
10/01/14	9:32 AM	Bullocks Reach Buoy	BAY													4.291	2.283	Middle
10/01/14	12:45 PM	Pawtuxet @ Red Can	BAY	0.5	19.93	18.08	7.49	249	11.4	163	104	1310	818	619	18	11.06	3.951	Bottom
10/01/14	1:56 PM	Phillipsdale Landing	BAY	0.5	23.53	18.40	7.43	242	15.2	252	155	1180	943	748	35	8.133	2.955	Surface
10/01/14	8:38 AM	Edgewood Shoals	BAY	0.5	28.85	18.88	7.55	105	11.5	166	99.7	1100	676	429	34	7.553	3.271	Surface
10/01/14	8:48 AM	Edgewood Shoals	BAY													4.498	2.652	Bottom
10/15/14	9:15 AM	Conimicut Point	BAY					100	10.9	78.5	54.9	714	471	373	382			Bottom
10/15/14	1:14 PM	Edgewood Yacht Club	BAY	0.5	27.75	17.94	7.46	198	13.6	94.4	70.4	923	763	479	18	6.8	1.783	Surface

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS								TSS AND CHLOROPHYLL PARAMETERS			COMMENTS
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)		
10/15/14	1:14 PM	Edgewood Yacht Club	BAY	0.5	27.75	17.94	7.46	197	13.8	93.6	71	956	674	399	16	4.532	1.146	Surface Duplicate	
10/15/14	1:22 PM	Edgewood Yacht Club	BAY					178	14.4	83.7	69.7	927	694	544	356			Bottom	
10/15/14	11:02 AM	Pomham Rocks	BAY	0.5	28.25	17.53	7.41	195	14.1	97.6	72.2	876	673	443	16	8.691	1.589	Surface	
10/15/14	11:15 AM	Pomham Rocks	BAY					185	14.1	86.6	73.2	904	621	428	354			Bottom	
10/15/14	2:06 PM	India Point Park	BAY	0.5	26.19	19.48	7.48	279	18.7	145	106	854	844	613	22	7.305	1.108	Surface	
10/15/14	2:11 PM	India Point Park	BAY					135	13.5	174	85.9	934	579	611	554			Bottom	
10/15/14	9:33 AM	Bullocks Reach Buoy	BAY	0.5	29.05	17.22	7.48	123	13	106	63.8	784	614	454	10	3.906	1.045	Surface	
10/15/14	9:42 AM	Bullocks Reach Buoy	BAY												4.07	1.124	Middle		
10/15/14	9:48 AM	Bullocks Reach Buoy	BAY					98.3	11.6	101	56.7	787	614	310	14	2.6	1.588	Bottom	
10/15/14	1:41 PM	Pawtuxet @ Red Can	BAY	0.5	10.59	17.68	7.08	172	13.9	104	70.1	884	715	414	68	5.221	1.158	Surface	
10/15/14	1:44 PM	Pawtuxet @ Red Can	BAY					172	14.2	109	73.3	929	633	442	364			Bottom	
10/15/14	8:35 AM	Ohio Ledge	BAY	0.5	30.92	16.72	7.55	80.7	9.3	56.1	44.3	647	424	399	42	4.252	0.9049	Surface	
10/15/14	8:45 AM	Ohio Ledge	BAY					77.1	9.46	54.6	43.3	633	421	281	346			Bottom	
10/15/14	10:37 AM	Edgewood Shoals	BAY	0.5	28.34	17.52	7.45									3.644	1.689	Surface	
10/15/14	10:41 AM	Edgewood Shoals	BAY													8.776	1.812	Bottom	
10/15/14	1:35 PM	Phillipsdale Landing	BAY			17.14	7.56	327	23.7	153	116	741	961	652	254	19.71	2.102	Surface	
10/15/14	1:40 PM	Phillipsdale Landing	BAY			17.00	7.52	246	25.8	228	111	914	952	736	310			Bottom	
10/29/14	8:59 AM	Conimicut Point	BAY	0.5	28.92	14.95	7.81	125	9.13	<7.0	56	489	540	330	372	4.344		Surface	
10/29/14	10:04 AM	Edgewood Yacht Club	BAY	0.5	25.97	15.84	7.66	210	9.78	108	85.8	690	669	457	340	3.092		Surface	
10/29/14	10:04 AM	Edgewood Yacht Club	BAY	0.5	25.97	15.84	7.66	206	9.91	107	87	681	631	472	244	2.521		Surface Duplicate	
10/29/14	10:24 AM	Pomham Rocks	BAY	0.5	26.34	15.57	7.68	203	9.61	105	85.7	661	611	448	338	2.194		Surface	
10/29/14	12:59 PM	India Point Park	BAY	0.5	22.45	16.47	7.59	237	9.77	115	72.5	839	765	516	6	4.366		Surface	
10/29/14	9:10 AM	Bullocks Reach Buoy	BAY	0.5	28.94	15.10	7.75	120	8.78	64.2	59.9	490	585	309	284	6.067		Surface	
10/29/14	9:20 AM	Bullocks Reach Buoy	BAY												4.604		Middle		
10/29/14	9:24 AM	Bullocks Reach Buoy	BAY												2.31		Bottom		
10/29/14	10:35 AM	Pawtuxet Red Can	BAY	0.5	10.49	14.70	7.20	885	8.24	72.5	46.3	1760	1410	1150	396	2.278		Surface	
10/29/14	8:35 AM	Edgewood Shoals	BAY	0.5	26.13	15.65	7.74									1.878		Surface	
10/29/14	8:41 AM	Edgewood Shoals	BAY													3.472		Bottom	
10/29/14	1:28 PM	Phillipsdale Landing	BAY	0.5	14.20	15.68	7.28	327	11	130	85.5	1000	821	625	162	5.446		Surface	
11/12/14	10:03 AM	Conimicut Point	BAY	0.5	26.83	11.50	7.82	208.00	10.60	98.80	65.10	662.0	622.0	453	360	4.695	0.7777	Surface	
11/12/14	10:08 AM	Conimicut Point	BAY					106.00	7.18	74.30	49.00	580.0	438.0	290	390			Bottom	
11/12/14	2:25 PM	Edgewood Yacht Club	BAY	0.5	23.51	12.79	7.94	160.00	9.41	105.00	63.20	631.0	565.0	405	340	1.501	0.8447	Surface	
11/12/14	2:25 PM	Edgewood Yacht Club	BAY	0.5	23.51	12.79	7.94	162.00	9.53	103.00	64.00	635.0	520.0	494	238	2.161	1.013	Surface Duplicate	
11/12/14	2:30 PM	Edgewood Yacht Club	BAY					148.00	10.30	121.00	63.40	648.0	526.0	368	236			Bottom	
11/12/14	1:30 PM	Pomham Rocks	BAY	0.5	22.66	12.58	6.04	243.00	10.80	120.00	83.70	743.0	650.0	492	208	4.007	1.212	Surface	
11/12/14	1:34 PM	Pomham Rocks	BAY					101.00	8.22	85.60	51.30	598.0	433.0	311	192			Bottom	
11/12/14	1:54 PM	India Point Park	BAY	0.5	17.73	12.17	7.90	333.00	11.40	121.00	84.20	855.0	822.0	625	138	0.7936	0.7344	Surface	
11/12/14	1:59 PM	India Point Park	BAY					130.00	9.40	116.00	56.50	605.0	640.0	388	178			Bottom	
11/12/14	10:21 AM	Bullocks Reach Buoy	BAY	0.5	26.80	11.61	7.81	191.00	10.10	97.30	65.90	665.0	709.0	448	172	6.012	1.038	Surface	
11/12/14	10:40 AM	Bullocks Reach Buoy	BAY					123.00	7.87	78.20	50.00	595.0	534.0	343	208	1.312	1.02	Bottom	
11/12/14	10:31 AM	Bullocks Reach Buoy	BAY													3.624	1.077	Middle	
11/12/14	1:10 PM	Pawtuxet @ Red Can	BAY	0.5	22.01	12.14	7.74	305.00	10.80	124.00	86.10	818.0	782.0	617	334	3.236	1.065	Surface	
11/12/14	1:14 PM	Pawtuxet @ Red Can	BAY					214.00	11.20	105.00	70.00	680.0	643.0	480	374			Bottom	
11/12/14	9:26 AM	Edgewood Shoals	BAY	0.5	24.88	11.97	7.71									3.299	0.9672	Surface	
11/12/14	9:49 AM	Edgewood Shoals	BAY													1.199	1.072	Bottom	
11/12/14	2:19 PM	Phillipsdale Landing	BAY			7.86	7.12	119.00	11.90	137.00	66.90	715.0	648.0	519	358	1.499	1.741	Surface	
11/12/14	2:22 PM	Phillipsdale Landing	BAY			7.11	7.18	600.00	13.70	118.00	344.00	1180.0	1100.0	993	180			Bottom	
11/25/14	8:48 AM	Conimicut Point	BAY	0.5	27.20	8.63	7.54	230.00	12.10	93.90	55.50	722.0	565.0	457	408	1.581	1.636	Surface	
11/25/14	10:45 AM	Edgewood Yacht Club	BAY	0.5	21.25	9.97	7.43	389.00	16.70	149.00	86.40	882.0	899.0	675	322	1.223	1.213	Surface	
11/25/14	10:45 AM	Edgewood Yacht Club	BAY	0.5	21.25	9.97	7.43	376.00	16.20	149.00	84.20	886.0	959.0	786	310	1.206	1.158	Surface Duplicate	
11/25/14	10:13 AM	Pomham Rocks	BAY	0.5	21.14	10.05	7.44	384.00	18.50	234.00	91.80	860.0	1140.0	820	338	1.070	0.9186	Surface	
11/25/14	1:08 PM	India Point Park	BAY	0.5	13.71	9.14	7.36	464.00	13.00	125.00	66.90	1000.0	1090.0	758	218	1.555	1.597	Surface	
11/25/14	9:00 AM	Bullocks Reach Buoy	BAY	0.5	27.01	8.89	7.54	238.00	12.20	97.70	59.00	745.0	716.0	604	374	1.983	1.702	Surface	
11/25/14	9:10 AM	Bullocks Reach Buoy	BAY												2.231	2.132	Middle		
11/25/14	9:13 AM	Bullocks Reach Buoy	BAY												1.606	1.688	Bottom		
11/25/14	10:32 AM	Pawtuxet @ Red Can	BAY	0.5	7.42	9.30	7.13	758.00	11.20	112.00	59.10	1650.0	1320.0	1060	204	1.725	1.068	Surface	
11/25/14	8:25 AM	Edgewood Shoals-Surface	BAY	0.5	20.39	9.77	7.43									0.575	1.001	Surface	

Table 30: River and Bay Nutrients Data





NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS		
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)	
02/19/14	12:50 PM	Runnins River @ River Road	RIVER			0.32	7.07	753.00	7.32	37.40	5.61	2510.0	1030.0	1070	6				
02/19/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			0.09	8.45	578.00	13.20	87.80	10.60	1340.0	902.0	900	2				
02/19/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			0.09	8.45	567.00	13.30	76.10	10.80	1060.0	896.0	871	8				Duplicate
03/05/14	8:30 AM	Blackstone River @ Bikepath Bridge @ Rt. 116	RIVER			0.55	7.11	831.00	12.10	32.10	63.30	2470.0	1140.0	1130	2				
03/05/14	9:30 AM	Moshassuck @ Higgins Ave, S-1	RIVER			1.48	7.51	708.00	4.01	8.00	<5.000	3050.0	922.0	1020	2				
03/05/14	10:10 AM	Blackstone River @ Slater Dam	RIVER			0.43	7.48	835.00	9.18	34.90	43.20	2490.0	1140.0	1070	18				
03/05/14	1:00 PM	Woonasquatucket @ Manton Ave	RIVER			2.22	7.39	685.00	34.80	97.30	12.00	2580.0	960.0	989	4				
03/05/14	1:25 PM	Woonasquatucket @ Valley Street	RIVER			2.47	7.26	676.00	33.10	69.50	<5.000	2270.0	904.0	982	12				
03/05/14	1:25 PM	Woonasquatucket @ Valley Street	RIVER			2.47	7.26	674.00	32.80	67.00	<5.000	2300.0	921.0	970	10				Duplicate
03/05/14	1:50 PM	Moshassuck @ Mill Street Bridge	RIVER			2.48	6.98	860.00	6.19	87.90	<5.000	3370.0	1260.0	1150	6				
03/05/14	3:00 PM	Pawtuxet River @ Broad	RIVER			2.81	6.91	1910.00	17.10	413.00	29.80	3210.0	2620.0	2610	6				
03/05/14	8:55 AM	Taunton River @ Berkley Bridge	RIVER			1.85	8.08	639.00	19.40	162.00	9.990	1630.0	1150.0	1160.0	4.0				
03/05/14	10:20 AM	Ten Mile Central Ave.	RIVER			2.61	7.56	2360.00	46.80	198.00	15.70	2390.0	3040.0	2840.0	6				
03/05/14	2:25 PM	Lees River @ Rte. 6	RIVER			1.23	7.22	667.00	1.98	12.40	<5.000	2370.0	1070.0	926.0	36				
03/05/14	2:00 PM	Coles River @ Milford Rd	RIVER			1.79	7.23	408.00	<1.5	29.00	11.60	513.0	779.0	780.0	4				
03/05/14	1:35 PM	Warren Reservoir/Kickemuit River	RIVER			2.02	7.71	910.00	8.33	27.80	<5.000	1310.0	1390.0	1260.0	12				
03/05/14	1:35 PM	Warren Reservoir/Kickemuit River	RIVER			2.02	7.71	916.00	4.77	11.00	<5.000	1620.0	1420.0	1310.0	10				Duplicate
03/05/14	1:10 PM	Palmer River @ Old Providence Rd	RIVER			0.62	7.22	391.00	<1.5	9.82	<5.000	2210.0	876.0	835.0	96				
03/05/14	12:55 PM	Runnins River @ River Road	RIVER			2.21	7.73	1140.00	9.29	<7.0	<5.000	2510.0	1330.0	1340.0	7				
03/19/14	8:30 AM	Blackstone River @ Slater Dam	RIVER			2.40	7.95	659	17.2	37.8	7.92	2970	1080	903	10				
03/19/14	10:15 AM	Blackstone River @ Stateline	RIVER			1.85	7.30	509	23.7	101	<5.000	2160	912	826	4				
03/19/14	9:10 AM	Blackstone River @ Bikepath Bridge @ Rt. 116	RIVER			2.23	7.91	660	37.1	122	33.6	2340	1060	997	6				
03/19/14	2:05 PM	Moshassuck @ Mill Street Bridge	RIVER			4.76	7.33	759	5.05	56	<5.000	3210	1080	984	8				
03/19/14	2:05 PM	Moshassuck @ Mill Street Bridge	RIVER			4.76	7.33	763	5.16	57.5	<5.000	3090	1050	968	8				Duplicate
03/19/14	11:05 AM	Moshassuck @ Higginson Ave, S-1	RIVER			3.17	7.10	628	3.85	<7.0	<5.000	3020	945	784	6				
03/19/14	3:10 PM	Pawtuxet River @ Broad	RIVER			4.99	7.25	1460	6.19	30.7	10.1	2790	1990	1670	10				
03/19/14	1:35 PM	Woonasquatucket @ Valley Street	RIVER			4.35	7.54	668	3.42	<7.0	<5.000	2300	869	787	8				
03/19/14	1:05 PM	Woonasquatucket @ Manton Ave	RIVER			3.77	6.17	664	3.24	<7.0	<5.000	2460	846	766	8				
03/19/14	1:25 PM	Warren Reservoir/Kickemuit River	RIVER			6.81	8.55	471	4.95	18.8	<5.000	1440	1110	762	4				
03/19/14	1:47 PM	Coles River @ Milford Rd	RIVER			4.61	8.34	181	<1.5	<7.0	6.12	513	672	449	10				
03/19/14	1:00 PM	Palmer River @ Old Providence Rd	RIVER			3.60	7.53	105	<1.5	<7.0	<5.000	1770	2470	379	2				
03/19/14	12:40 PM	Runnins River @ River Road	RIVER			2.40	7.51	723	3.75	<7.0	<5.000	1730	966	1070	150				
03/19/14	8:45 AM	Taunton River @ Berkley Bridge	RIVER			2.81	8.82	534	17.6	148	12.1	1430	1160	915	2				
03/19/14	10:40 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			4.40	7.43	1550	16.4	<7.0	7.33	2250	2020	1630	24				
03/19/14	10:00 AM	Ten Mile Central Ave.	RIVER			4.25	7.54	1720	19.8	63.5	9.78	2740	2070	2070	6				
03/19/14	10:00 AM	Ten Mile Central Ave.	RIVER			4.25	7.54	1650	21.2	59.5	9.49	2540	3540	2010	22				Duplicate
04/02/14	11:10 AM	Palmer River @ Old Providence Rd	RIVER			4.96	7.29	186	<1.5	12.7	15.7	316	613	552	8				
04/02/14	10:55 AM	Runnins River @ River Road	RIVER			4.97	7.13	446	<1.5	<7.0	8.55	1210	766	875	<2.00				
04/02/14	8:50 AM	Taunton River @ Berkley Bridge	RIVER			5.17	7.90	307	4.87	70.2	21.4	487	1060	736	8				
04/02/14	2:25 PM	Ten Mile River @ Outlet of Omega Pond	RIVER			6.11	7.37	694	6.55	88.6	11.8	835	1260	1050	2				
04/02/14	1:00 PM	Ten Mile Central Ave.	RIVER			5.21	7.41	1060	5.53	23.9	8.18	872	1500	1410	2				
04/02/14	10:30 AM	Warren Reservoir/Kickemuit River	RIVER			5.33	7.87	157	<1.5	14.2	20.4	104	701	763	2				
04/02/14	10:15 AM	Coles River @ Milford Rd	RIVER			5.19	7.37	130	<1.5	<7.0	12.1	172	558	539	4				
04/02/14	10:30 AM	Blackstone @ Slater Dam	RIVER			5.39	7.07	461	2.96	47.7	42.5	1540	737	777	6				
04/02/14	8:40 AM	Blackstone @ Stateline	RIVER			4.85	6.74	471	17.9	43.8	9.64	1180	664	774	<2.00				
04/02/14	8:40 AM	Blackstone @ Stateline	RIVER			4.85	6.74	471	18.3	30	9.24	1030	835	772	4				Duplicate
04/02/14	9:25 AM	Blackstone @ Bikepath Bridge	RIVER			5.15	6.99	459	4.1	41.9	28.2	1580	754	790	6				
04/02/14	2:40 PM	Pawtuxet River @ Broad	RIVER			6.29	6.90	643	2.88	50.4	9.46	1210	1070	1040	2				
04/02/14	1:20 PM	Moshassuck @ Mill Street Bridge	RIVER			6.69	7.05	625	2.44	25.8	6.17	2460	799	898	4				
04/02/14	10:10 AM	Moshassuck @ Higgins Ave, S-1	RIVER			6.05	7.14	527	2.78	<7.0	7.04	2320	700	801	<2.00				
04/02/14	1:00 PM	Woonasquatucket @ Valley Street	RIVER			6.38	7.03	413	<1.5	<7.0	<5.000	407	607	599	2				
04/02/14	12:45 PM	Woonasquatucket @ Manton Ave	RIVER			6.34	6.95	440	<1.5	<7.0	<5.000	1520	610	630	<2.00				
04/16/14	8:35 AM	Blackstone River @ Stateline	RIVER			12.14	6.75	410.00	26.20	108.00	12.00	1540.0	776.0	708	12				
04/16/14	10:45 AM	Blackstone River @ Slater Dam	RIVER			13.02	7.28	614.00	20.50	61.50	44.60	1730.0	954.0	911	16				
04/16/14	9:35 AM	Blackstone River @ Bikepath Bridge @ Rt. 116	RIVER			12.67	7.17	502.00	17.10	54.90	25.50	1540.0	835.0	780	16				
04/16/14	2:40 PM	Pawtuxet River @ Broad	RIVER			11.21	6.91	538.00	3.32	<7.0	15.60	1080.0	787.0	786	8				
04/16/14	1:10 PM	Woonasquatucket @ Valley Street	RIVER			11.88	7.15	475.00	2.47	<7.0	<5.000	1280.0	657.0	679	8				

Table 30: River and Bay Nutrients Data

## NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS			
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)		
04/16/14	1:30 PM	Moshassuck @ Mill Street Bridge	RIVER			12.12	7.16	443.00	2.94	9.03	5.30	1750.0	635.0	717	6					
04/16/14	10:10 AM	Moshassuck @ Higgins Ave, S-1	RIVER			12.25	7.36	362.00	2.48	12.90	<5.00	2020.0	505.0	551	6					
04/16/14	10:10 AM	Moshassuck @ Higgins Ave, S-1	RIVER			12.25	7.36	361.00	2.97	11.80	<5.00	1860.0	495.0	624	8					Duplicate
04/16/14	12:40 PM	Woonasquatucket @ Manton Ave	RIVER			11.45	7.13	437.00	2.09	15.90	<5.00	1330.0	610.0	641	6					
04/16/14	1:56 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			12.92	7.39	1050.00	6.64	<7.0	15.70	1510.0	1400.0	1390	6					
04/16/14	1:56 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			12.92	7.39	1090.00	6.13	<7.0	16.40	1540.0	1400.0	1360	8					Duplicate
04/16/14	12:50 PM	Ten Mile Central Ave.	RIVER			11.54	7.32	532.00	9.28	47.40	8.50	1160.0	851.0	878	2					
04/16/14	2:00 PM	Warren Reservoir/Kickemuit River	RIVER			9.54	6.94	209.00	3.66	7.22	18.70	313.0	807.0	723	2					
04/16/14	2:35 PM	Coles River @ Milford Rd	RIVER			n/a	n/a	185.00	<1.5	<7.0	19.60	186.0	738.0	622	2					
04/16/14	1:35 PM	Palmer River @ Old Providence Rd	RIVER			10.19	7.04	140.00	3.05	19.00	38.90	206.0	641.0	559	10					
04/16/14	1:25 PM	Runnins River @ River Road	RIVER			10.19	7.24	341.00	2.50	<7.0	8.25	925.0	663.0	660	2					
04/16/14	10:00 AM	Taunton River @ Berkley Bridge	RIVER			12.13	7.93	213.00	4.05	103.00	16.90	257.0	819.0	658	4					
04/30/14	9:54 AM	Blackstone River @ Stateline	RIVER			9.82		479	23	68.8	6.95	1480	691	703	6					
04/30/14	8:30 AM	Blackstone River @ Slater Mill	RIVER			10.29	6.91	639	24.7	61.6	5.68	1190	851	882	4					
04/30/14	9:04 AM	Blackstone River @ Bikepath bridge at Rt. 116	RIVER			10.32	6.98	639	22.2	57.3	6.39	1540	854	872	2					
04/30/14	9:04 AM	Blackstone River @ Bikepath bridge at Rt. 116	RIVER			10.32	6.98	649	22.3	57.3	6.39	1570	823	988	4					Duplicate
04/30/14	2:17 AM	Pawtuxet River @ Broad	RIVER			10.34	6.89	750	4.65	31	18.5	1330	1100	1010	10					
04/30/14	1:16 PM	Woonasquatucket @ Valley Street	RIVER			10.19	6.98	449	1.75	<7.0	<5.00	1200	568	708	6					
04/30/14	12:58 PM	Woonasquatucket @ Manton Ave	RIVER			10.13	6.99	416	1.81	20	<5.00	702	531	721	2					
04/30/14	1:37 PM	Moshassuck @ Mill Street Bridge	RIVER			9.75	6.84	477	4.27	25.3	<5.00	1820	594	667	4					
04/30/14	2:07 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			11.36	7.90	1070	4.97	<7.0	10.1	1330	1310	1330	6					
04/30/14	9:29 AM	Warren Reservoir/Kickemuit River	RIVER			9.25	7.10	343	4.95	17.5	7.37	640	726	710	6					
04/30/14	9:29 AM	Warren Reservoir/Kickemuit River	RIVER			9.25	7.10	345	5.43	19.8	6.29	738	716	741	4					Duplicate
04/30/14	9:06 AM	Coles River @ Milford Rd	RIVER			10.47	6.78	200	<1.5	24.8	18.1	130	586	734	2					
04/30/14	10:14 AM	Palmer River @ Old Providence Rd	RIVER			8.93	7.34	90.5	<1.5	24.5	<5.00	843	861	384	42					
04/30/14	10:30 AM	Runnins River @ River Road	RIVER			8.97	7.49	592	2.18	8.24	<5.00	767	814	927	2					
04/30/14	8:27 AM	Taunton River @ Berkley Bridge	RIVER			4.74	6.91	420	13.3	87.6	7.64	364	747	848	4					
05/14/14	10:02 AM	Blackstone River @ Stateline	RIVER			12.70	6.52	436	9.69	<7.0	10	1660	699	656	6					
05/14/14	8:15 AM	Blackstone River @ Slater Mill	RIVER			16.94	7.67	569	6.97	28.5	7.91	1750	833	789	6					
05/14/14	8:46 AM	Blackstone River 2 Bikepath bridge at Rt. 116	RIVER			16.79	7.46	614	9.69	<7.0	8.83	1730	869	1030	2					
05/14/14	11:22 AM	Pawtuxet River @ Broad	RIVER			16.63	7.25	727	6.84	21.2	22.3	2030	1130	1170	<2					
05/14/14	11:22 AM	Pawtuxet River @ Broad	RIVER			16.63	7.25	730	6.84	24	22.2	1980	1120	1160	<2					Duplicate
05/14/14	1:04 PM	Woonasquatucket @ Valley Street	RIVER			18.85	7.53	442	3.37	41.4	<5.00	1490	644	687	8					
05/14/14	1:31 PM	Woonasquatucket @ Manton Ave	RIVER			17.81	7.68	533	3.97	22.9	5.85	1570	757	905	4					
05/14/14	10:43 AM	Moshassuck @ Higginson Ave	RIVER			15.80	7.55	171	3.62	18.8	5.08	1320	456	630	2					
05/14/14	2:00 PM	Moshassuck @ Mill Street Bridge	RIVER			16.89	7.49	407	6.23	59.4	<5.00	1780	689	740	4					
05/14/14	1:55 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			19.83	7.65	964	9.29	12.9	10.2	1650	1420	1330	8					
05/14/14	1:00 PM	Ten Mile @ Central Ave.	RIVER			17.28	7.07	668	5.12	38.2	9.68	NM	1800	917	8					
05/14/14	10:40 AM	Warren Reservoir/Kickemuit River	RIVER			18.87	7.53	110	5.64	26.4	11.3	1130	988	812	16					
05/14/14	9:55 AM	Coles River @ Milford Rd	RIVER			18.21	6.96	127	<1.5	11.6	14.3	367	764	676	20					
05/14/14	9:55 AM	Coles River @ Milford Rd	RIVER			18.21	6.96	125	<1.5	33.2	16.5	461	723	658	20					Duplicate
05/14/14	10:20 AM	Palmer River @ Old Providence Rd	RIVER			16.70	7.12	145	2.54	11.2	<5.00	1120	948	634	46					
05/14/14	11:00 AM	Runnins River @ River Road	RIVER			14.65	6.98	512	4.18	89.4	<5.00	2090	812	914	14					
05/14/14	8:40 AM	Taunton River @ Berkley Bridge	RIVER			16.89	6.91	415	7.33	130	19.8	1000	1010	1050	40					
05/28/14	8:35 AM	Blackstone River @ Slater Dam	RIVER			17.37	7.37	701	10.4	19.3	11.4	2180	952	974	3					
05/28/14	9:55 AM	Blackstone River @ Stateline	RIVER			17.81	7.19	559	14	<7.0	15.9	1980	910	859	32					
05/28/14	9:10 AM	Blackstone River @ Bikepath Bridge @ Rt. 116	RIVER			18.63	7.39	713	10.2	<7.0	14.4	2160	953	1050	3					
05/28/14	12:30 PM	Moshassuck @ Mill Street Bridge	RIVER			14.86	7.33	633	22.6	185	<5.00	3340	1170	1110	2					
05/28/14	2:00 PM	Pawtuxet River @ Broad	RIVER			17.28	7.17	772	11.5	41.8	40.4	1920	1140	1170	4					
05/28/14	1:30 PM	Woonasquatucket @ Valley Street	RIVER			17.36	7.34	504	4.71	41.4	<5.00	1430	714	884	<2					
05/28/14	1:00 PM	Woonasquatucket @ Manton Ave	RIVER			18.02	6.94	462	5.21	73.6	<5.00	1590	766	765	<2					
05/28/14	1:00 PM	Woonasquatucket @ Manton Ave	RIVER			18.02	6.94	470	5.2	76.2	<5.00	1400	731	774	<2					Duplicate
05/28/14	1:40 PM	Coles River @ Milford Rd	RIVER			17.60	7.35	187	6.13	43.8	19.7	940	910	808	<2					
05/28/14	1:40 PM	Coles River @ Milford Rd	RIVER			17.60	7.35	189	5.92	36.3	21.7	585	849	620	<2					Duplicate
05/28/14	12:54 PM	Palmer River @ Old Providence Rd	RIVER			17.12	7.05	323	7.28	55.5	11.9	1940	936	818	9					
05/28/14	12:35 PM	Runnins River @ River Road	RIVER			14.34	7.29	656	10.2	7.27	<5.00	1500	928	1060	2					
05/28/14	8:45 AM	Taunton River @ Berkley Bridge	RIVER			16.75	6.99	485	6.68	70.6	20.9	1510	753	878	9					

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS	
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)
05/28/14	10:05 AM	Ten Mile Central Ave.	RIVER			15.40	7.51	1200	19.6	38.8	15.7	3010	1610	1700	4			
05/28/14	10:39 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			17.79	7.56	877	17.2	48.2	22	2120	1220	1340	3			
05/28/14	1:20 PM	Warren Reservoir/Kickemuit River	RIVER			16.76	7.51	203	10.8	68.5	14.2	2110	1150	1010	< 2			
06/11/14	10:40 AM	Blackstone River @ Slater Dam	RIVER			20.03	7.58	824	7.72	30.2	10.1	2030	1100	1070	414			
06/11/14	2:56 PM	Pawtuxet River @ Broad	RIVER			20.31	7.12	949	14.3	72.3	41.9	2390	1210	1290	258			
06/11/14	1:54 PM	Woonasquatucket @ Valley Street	RIVER			19.99	7.54	861	8.65	17.9	<5.00	2520	1040	1020	410			
06/11/14	1:32 PM	Woonasquatucket @ Manton Ave	RIVER			20.89	7.22	854	12.7	61.8	<5.00	2250	1080	1130	262			
06/11/14	2:16 PM	Moshassuck @ Mill Street Bridge	RIVER			18.78	7.35	372	14.9	164	15	2060	900	921	228			
06/11/14	11:00 AM	Moshassuck @ Higgins Ave, S-1	RIVER			19.34	7.30	142	6.34	77.8	5.02	910	507	428	420			
06/11/14	10:10 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			20.38	7.33	511	15.3	63.9	30.3	1760	1110	858	312			
06/11/14	8:45 AM	Ten Mile Central Ave.	RIVER			18.09	7.05	980	23	122	17.1	2860	1420	1410	146			
06/11/14	8:45 AM	Ten Mile Central Ave.	RIVER			18.09	7.05	973	23.2	118	17.6	3140	1380	1390	296			Duplicate
06/25/14	1:14 PM	Coles River @ Milford Rd	RIVER			24.31	7.03	104	2.98	<7.0	5.75	905	1100	961	38			
06/25/14	1:55 PM	Palmer River @ Old Providence Rd	RIVER			22.02	7.08	94.4	4.59	54.8	18	1150	1090	938	2			
06/25/14	1:55 PM	Palmer River @ Old Providence Rd	RIVER			22.02	7.08	96.9	4.56	54.3	21	936	1230	1080	2			Duplicate
06/25/14	1:31 PM	Runnins River @ River Road	RIVER			19.98	7.06	527	6.18	34.5	<5.00	4330	1130	1090	7			
06/25/14	8:45 AM	Taunton River @ Berkley Bridge	RIVER			21.75	7.40	211	3.44	<7.0	<5.00	1540	603	398	19			
06/25/14	10:42 AM	Ten Mile @ Central Ave.	RIVER			21.49	7.31	973	12.9	116	17.7	2800	683	717	< 2			
06/25/14	10:08 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			22.77	7.56	275	10.1	<7.0	8.98	314	1760	1930	4			
06/25/14	12:55 PM	Warren Reservoir/Kickemuit River	RIVER			25.53	7.68	<6.0	1.76	<7.0	9.67	80.5	804	853	4			
06/25/14	8:22 AM	Blackstone River at Slater Dam	RIVER			22.33	7.65	643	6.84	12.1	27.9	1500	613	406	10			
06/25/14	8:22 AM	Blackstone River at Slater Dam	RIVER			22.33	7.65	644	6.61	<7.0	5.34	1540	583	548	11			Duplicate
06/25/14	9:48 AM	Blackstone River at Stateline	RIVER			21.32	7.40	803	6.52	<7.0	5.42	2060	642	555	11			
06/25/14	9:08 AM	Blackstone River at Bikepath bridge	RIVER			22.70	7.79	759	6.92	<7.0	<5.00	1900	733	847	5			
06/25/14	12:47 PM	Moshassuck River at Higginson Ave	RIVER			23.14	7.35	81.1	6.31	30.6	7.87	710	1020	524	11			
06/25/14	1:11 PM	Moshassuck River at Mill St	RIVER			21.13	7.71	429	12.6	66.2	5.01	2500	1380	1250	6			
06/25/14	2:20 PM	Pawtuxet River	RIVER			22.96	7.38	1450	25.8	71.9	24.1	2520	664	640	2			
06/25/14	1:45 PM	Woonasquatucket River at Valley	RIVER			23.46	7.85	681	5.46	<7.0	<5.00	1710	793	682	4			
07/09/14	9:45 AM	Blackstone River @ Slater Dam	RIVER			25.13	7.38	912	33.4	44.8	26.2	1430	1430	1370	146			
07/09/14	12:45 PM	Moshassuck @ Mill Street Bridge	RIVER			23.21	7.40	598	17.1	59.1	5.18	3930	3930	778	276			
07/09/14	9:15 AM	Moshassuck @ Higgins Ave, S-1	RIVER			22.78	7.22	188	6.12	56.9	10.9	2040	2040	441	10			
07/09/14	1:45 PM	Pawtuxet River @ Broad	RIVER			24.91	7.12	904	14.2	45.6	30.2	2240	2240	1250	8			
07/09/14	1:45 PM	Pawtuxet River @ Broad	RIVER			24.91	7.12	909	14.4	45.7	30.4	2250	2250	1240	6			Duplicate
07/09/14	8:00 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			25.57	7.50	113	5.96	47	9.52	795	795	611	8			
07/09/14	9:00 AM	Ten Mile Central Ave.	RIVER			23.73	7.14	794	8.28	38.2	28.8	2780	2780	1100	2			
07/09/14	1:15 PM	Woonasquatucket @ Valley Street	RIVER			25.37	7.63	503	5.39	15.3	6	1830	1830	675	6			
07/09/14	10:30 AM	Woonasquatucket @ Manton Ave	RIVER			25.20	7.10	391	9.06	87.3	9.19	1620	1620	650	6			
07/23/14	9:11 AM	Blackstone River @ Bikepath bridge @ Rt. 116	RIVER			25.08	8.35	489	8.33	<7.0	<5.00	379	1000	822	2			
07/23/14	8:28 AM	Blackstone River @ Slater Dam	RIVER			24.52	7.24	528	9.25	95.6	11.3	414	1030	915	16			
07/23/14	10:02 AM	Blackstone River @ Stateline	RIVER			24.81	7.89	530	6.43	<7	8.43	692	992	820	< 2			
07/23/14	9:47 AM	Coles River @ Milford Rd	RIVER			116	3.21	57.3	40	1360	1020	835	2					
07/23/14	10:59 AM	Moshassuck @ Higginson Ave	RIVER			22.06	7.16	220	4.38	43.6	13.1	3160	417	447	18			
07/23/14	12:46 PM	Moshassuck @ Mill Street Bridge	RIVER			22.49	7.44	658	16.9	49.2	<5.00	4400	847	901	< 2			
07/23/14	10:20 AM	Palmer River @ Old Providence Rd., Swansea	RIVER			<6	<1.5	<7.0	<5.00	1230	715	365	88					
07/23/14	2:00 PM	Pawtuxet River @ Broad	RIVER			25.13	7.14	1220	21.6	11.4	68.8	2400	1610	1670	24			
07/23/14	10:37 AM	Runnins River @ River Rd. on RI Mass Border	RIVER			526	4.39	19.7	<5.00	4470	741	782	6					
07/23/14	12:50 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			46	4.69	16.2	8.05	1320	817	460	30					
07/23/14	2:43 PM	Ten Mile Central Ave.	RIVER			1020	4.92	14.8	20.5	1980	1470	1360	10					
07/23/14	10:02 AM	Warren Reservoir/Kickemuit River	RIVER			13.9	2.18	<7.0	13.4	1720	893	521	24					
07/23/14	1:16 PM	Woonasquatucket @ Valley Street	RIVER			25.30	7.62	375	2.25	<7.0	<5.00	1430	605	616	26			
07/23/14	1:16 PM	Woonasquatucket @ Valley Street	RIVER			25.30	7.62	438	2.63	<7.0	<5.00	1400	538	733	< 2			Duplicate
08/06/14	9:53 AM	Blackstone River @ Slater Dam	RIVER			23.21	7.71	712.00	8.13	7.52	7.56	170.0	1150.0	1060	6			
08/06/14	1:12 PM	Moshassuck @ Mill Street Bridge	RIVER			20.71	7.82	701.00	11.70	29.60	<5.00	4490.0	798.0	978	10			
08/06/14	9:23 AM	Moshassuck @ Higgins Ave, S-1	RIVER			18.65	7.53	270.00	4.73	13.00	12.90	3810.0	434.0	464	6			
08/06/14	2:09 PM	Pawtuxet River @ Broad	RIVER			24.02	7.72	1190.00	7.48	<7.0	70.10	2020.0	1770.0	1210	34			
08/06/14	2:09 PM	Pawtuxet River @ Broad	RIVER			24.02	7.72	1180.00	7.44	<7.0	70.40	2120.0	1760.0	1340	34			Duplicate
08/06/14	12:43 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			24.32	7.67	35.00	2.87	<7.0	10.80	1360.0	524.0	378	8			

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS			
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)		
08/06/14	8:22 AM	Ten Mile Central Ave.	RIVER			20.91	7.51	1870.00	6.35	22.60	15.90	1290.0	2160.0	2250	10					
08/06/14	10:41 AM	Woonasquattuck @ Valley Street	RIVER			22.09	7.66	628.00	3.02	9.96	<5.00	1350.0	713.0	951	4					
08/06/14	10:22 AM	Woonasquattuck @ Manton Ave	RIVER			22.93	7.66	424.00	6.97	25.30	7.20	793.0	637.0	669	4					
08/20/14	8:25 AM	Blackstone River @ Slater Dam	RIVER			20.49	7.37	562	4.72	13.1	9.68	1140	1080	832	20					
08/20/14	10:00 AM	Blackstone River @ Stateline	RIVER			20.58	7.72	502	4.73	<7.0	12.3	1500	916	948	2					
08/20/14	9:00 AM	Blackstone River @ Bikepath bridge @ Rt. 116	RIVER			21.05	7.67	547	4.75	<7.0	8.84	1050	1280	839	36					
08/20/14	11:15 AM	Pawtuxet River @ Broad	RIVER			22.21	7.43	1270	98	304	61.5	2230	2110	1950	12					
08/20/14	2:00 PM	Woonasquattuck @ Valley Street	RIVER			21.81	7.64	513	2.71	<7.0	5.25	1200	624	681	4					
08/20/14	2:00 PM	Woonasquattuck @ Valley Street	RIVER			21.81	7.64	501	2.13	<7.0	<5.00	1210	680	681	4				Duplicate	
08/20/14	1:45 PM	Moshassuck @ Mill Street Bridge	RIVER			21.21	7.78	629	11.9	62.3	<5.00	4230	801	819	4					
08/20/14	1:20 PM	Moshassuck @ Higgins Ave., S-1	RIVER			20.19	7.66	276	5.9	29.8	14.2	3300	428	475	2					
08/20/14	10:55 AM	Warren Reservoir/Kickemuit River	RIVER			19.41	6.71	<6	<1.5	<7.0	<5.00	148	567	377	15					
08/20/14	10:30 AM	Coles River @ Milford Rd	RIVER			21.40	6.91	173	3.66	34.7	18.9	909	781	790	3					
08/20/14	11:25 AM	Palmer River @ Old Providence Rd., Swansea	RIVER			23.52	7.24	<6	<1.5	<7.0	5.89	193	801	332	33					
08/20/14	11:45 AM	Runnins River @ River Rd. on RI Mass Border	RIVER			18.59	7.01	577	3.09	23.5	16.4	4260	733	798	4					
08/20/14	8:55 AM	Taunton River @ Berkley Bridge	RIVER			22.57	7.34	1140	11.7	<7.0	71.3	996	1780	1460	10					
08/20/14	8:55 AM	Taunton River @ Berkley Bridge	RIVER			22.57	7.34	853	11.6	<7.0	52.6	1070	1790	1530	11				Duplicate	
08/20/14	2:40 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			26.92	9.05	<6	<1.5	<7.0	20.5	1270	876	333	12					
08/20/14	1:20 PM	Ten Mile Central Ave.	RIVER			21.22	7.33	1490	5.01	<7.0	17.4	1900	1790	1820	2					
9/3/2014	8:25	Blackstone River @ Slater Dam	RIVER			23.52	7.74	1130	9.26	<7.0	6.78	366	1610	1137	46					
9/3/2014	14:30	Pawtuxet River @ Broad	RIVER			24.12	7.39	886	6.86	68.5	91.3	2060	1580	955	180					
9/3/2014	14:30	Pawtuxet River @ Broad	RIVER			24.12	7.39	886	6.8	77.2	92.3	2080	1520	963	192				Duplicate	
9/3/2014	12:58	Woonasquattuck @ Valley Street	RIVER			23.23	7.70	738	3.37	<7.0	<5.00	1080	870	745	56					
9/3/2014	12:35	Woonasquattuck @ Manton Ave	RIVER			23.87	7.75	676	5.2	7.9	<5.00	471	859	684	300					
9/3/2014	10:30	Moshassuck @ Mill Street Bridge	RIVER			20.30	7.79	722	14.8	26.7	5.65	4200	895	749	42					
9/3/2014	13:40	Moshassuck @ Higgins Ave., S-1	RIVER			19.95	7.36	264	3.12	<7.0	11.9	3790	370	271	<2					
9/3/2014	9:55	Ten Mile @ Outlet Of Omega Pond	RIVER			23.67	8.69	<6	1.5	<7.0	15.5	1030	757	13	54					
09/17/14	8:30 AM	Blackstone River @ Slater Dam	RIVER			18.94	7.72	1160	5.92	<7.0	86.1	1450	1620	1450	20					
09/17/14	9:46 AM	Blackstone River @ Stateline	RIVER			17.31	7.88	1590	5.26	9.22	52.6	1890	1950	1890	10					
09/17/14	9:05 AM	Blackstone River @ Bikepath Rt. 116	RIVER			19.17	7.80	1450	6.47	20.8	82.7	1730	1780	1730	6					
09/17/14	2:28 PM	Pawtuxet River @ Broad	RIVER			21.60	7.71	1890	12.2	17.7	93.9	2390	2410	2390	4					
09/17/14	2:28 PM	Pawtuxet River @ Broad	RIVER			21.60	7.71	1890	12	33	95.4	2350	2430	2350	8				Duplicate	
09/17/14	1:12 PM	Woonasquattuck @ Valley Street	RIVER			17.86	7.73	856	2.21	<7.0	<5.00	978	958	978	12					
09/17/14	1:31 PM	Moshassuck @ Mill Street Bridge	RIVER			17.28	7.60	837	13.2	94	9.2	1190	1140	1190	<2					
09/17/14	11:15 AM	Moshassuck @ Higgins Ave., S-1	RIVER			14.80	7.13	355	3.45	45.1	10.1	794	492	794	6					
09/17/14	2:30 PM	Warren Reservoir/Kickemuit River	RIVER			<6	<1.5	<7.0	<5.00	589	1000	589	589	26						
09/17/14	2:56 PM	Coles River @ Milford Rd	RIVER			180	2.31	30	11	687	677	687	687	<2						
09/17/14	2:00 PM	Palmer River @ Old Providence Rd., Swansea	RIVER			<6	<1.5	<7.0	13.4	408	727	408	408	352						
09/17/14	8:45 AM	Taunton River @ Berkley Bridge	RIVER			1650	12.3	62.4	122	2120	2540	2120	2120	106						
09/17/14	10:00 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			95.6	5.8	204	16.9	689	899	689	689	8						
09/17/14	10:00 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			90.6	5.43	203	16.9	686	875	686	686	4					Duplicate	
09/17/14	1:15 PM	Ten Mile Central Ave.	RIVER			1140	3.52	<7.0	6.7	1400	1250	1400	1400	6						
10/01/14	9:47 AM	Blackstone River @ Slater Dam	RIVER			16.88	7.62	1790	7.37	11.4	25.3	822	2430	2120	20					
10/01/14	10:21 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			17.47	7.51	122	7.36	198	24.2	1210	839	707	8					
10/01/14	10:21 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			17.47	7.51	123	7.53	196	22.3	1120	893	714	8					
10/01/14	8:31 AM	Ten Mile @ Central Ave.	RIVER			15.90	7.60	1890	7.79	21.5	12.4	1990	2180	2270	9				Duplicate	
10/01/14	2:41 PM	Pawtuxet River @ Broad	RIVER		3.03	17.21	7.19	1570	9.72	65.4	102	2540	2130	1970	11					
10/01/14	1:05 PM	Woonasquattuck @ Valley Street	RIVER		0.26	15.72	7.66	1080	2.95	<7.0	<5.00	1140	1250	1250	3					
10/01/14	12:45 PM	Woonasquattuck @ Manton Ave	RIVER		0.21	16.38	7.72	1000	5.9	54.9	10.8	364	1320	1260	9					
10/01/14	1:26 PM	Moshassuck @ Mill Street	RIVER		0.15	15.44	7.62	545	16.6	88.9	26.9	2090	1850	1090	93					
10/01/14	9:24 AM	Moshassuck @ Higgins Ave., S-1	RIVER			13.90	7.70	348	4.16	55.2	13.8	5090	547	644	3					
10/15/14	8:30 AM	Blackstone River @ Slater Dam	RIVER		0.27	21.03	7.19	1390	6.08	<7.0	19.6	1060	1710	1650	4					
10/15/14	9:45 AM	Blackstone River @ Stateline	RIVER		0.30	14.96	7.46	1950	6.76	<7.0	33.3	1590	2600	2400	2					
10/15/14	9:00 AM	Blackstone River @ Bikepath Rt. 116	RIVER		0.21	15.27	7.48	1700	3.74	<7.0	39.5	1590	2150	1960	12					
10/15/14	2:50 PM	Pawtuxet River @ Broad	RIVER			9.19	17.33	7.20	752	6.71	45.7	43.6	1550	1120	1080	6				
10/15/14	2:50 PM	Pawtuxet River @ Broad	RIVER			9.19	17.33	7.20	752	6.61	41.6	43.9	1700	1160	1030	6				Duplicate
10/15/14	2:00 PM	Woonasquattuck @ Valley Street	RIVER		0.30	16.98	7.24	573	2.36	<7.0	<5.00	861	876	704	12					

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS		
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)	
10/15/14	1:30 PM	Moshassuck @ Mill Street Bridge	RIVER		0.28	17.82	7.48	687	8.83	17.9	6.63	5020	1020	974	6				
10/15/14	1:00 PM	Moshassuck @ Higgins Ave, S-1	RIVER		0.27	17.89	7.38	245	2.48	<7.0	8.13	3250	448	392	4				
10/15/14	10:10 AM	Warren Reservoir/Kickemuit River	RIVER			18.57	6.87	6.16	<1.5	10.1	<5.00	258	1990	612	20				
10/15/14	9:50 AM	Coles River @ Milford Rd	RIVER			13.21	6.90	371	4.42	<7.0	6.65	1070	738	664	6				
10/15/14	10:35 AM	Palmer River @ Old Providence Rd., Swansea	RIVER			15.38	7.65	10.7	<1.5	<7.0	<5.00	1390	806	247	280				
10/15/14	8:40 AM	Taunton River @ Berkley Bridge	RIVER			14.74	7.31	2170	9.63	10.1	129	3370	2710	2420	42				
10/15/14	2:45 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			16.64	7.90	155	8.03	<7.0	14.7	601	1300	559	46				
10/15/14	2:45 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			16.64	7.90	153	7.88	25	14.2	609	1300	559	36				Duplicate
10/15/14	1:05 PM	Ten Mile Central Ave.	RIVER			16.09	7.72	1590	5.84	<7.0	7.72	2610	2020	1950	36				
10/29/14	12:45 PM	Blackstone River @ Slater Dam	RIVER			12.56	8.40	655	3.75	<7.0	18.9	1490	1130	877	16				
10/29/14	2:30 PM	Pawtuxet River @ Broad	RIVER			13.48	8.14	1070	6.98	46.3	31.7	2320	1480	1530	198				
10/29/14	1:35 PM	Woonasquatucket @ Valley Street	RIVER			15.28	7.64	447	1.55	<7.0	<5.00	962	628	761	50				
10/29/14	1:15 PM	Woonasquatucket @ Manton Ave	RIVER			15.48	7.89	420	2.62	<7.0	<5.00	792	632	571	6				
10/29/14	8:30 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			13.43	8.65	374	7.41	<7.0	12.1	689	1380	717	28				
10/29/14	8:30 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			13.43	8.65	373	7.27	<7.0	12.4	646	1330	598	32				Duplicate
10/29/14	2:00 PM	Moshassuck @ Mill Street Bridge	RIVER			15.48	7.98	527	6.39	51.5	5.4	3980	770	763	2				
10/29/14	10:00 AM	Moshassuck @ Higgins Ave, S-1	RIVER			17.80	7.99	178	3.29	<7.0	6.14	2440	401	341	10				
11/12/14	11:00 AM	Warren Reservoir/Kickemuit River	RIVER			8.03	6.91	119.00	4.53	23.10	24.10	1950.0	601.0	399	268				
11/12/14	10:30 AM	Coles River @ Milford Rd	RIVER			7.98	6.88	300.00	7.92	7.00	7.22	3999.0	787.0	665	22				
11/12/14	11:15 AM	Palmer River @ Old Providence Rd., Swansea	RIVER			7.57	7.14	111.00	4.59	7.00	23.10	1930.0	642.0	506	274				
11/12/14	10:45 AM	Runnins River @ River Rd. on RI Mass Border	RIVER			7.86	6.79	310.00	3.73	7.00	7.68	3830.0	788.0	699	18				
11/12/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			8.18	6.74	809.00	4.75	9.86	55.80	3760.0	1300.0	1290	18				
11/12/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			8.18	6.74	868.00	4.59	7.00	55.60	3210.0	1360.0	1300	18				Duplicate
11/12/14	1:04 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			7.76	7.15	2430.00	8.51	7.00	12.30	2970.0	2900.0	2860	20				
11/12/14	3:09 PM	Ten Mile Central Ave.	RIVER			7.91	7.21	2410.00	8.58	11.20	11.70	2920.0	2870.0	2880	22				
11/12/14	9:00 AM	Blackstone River @ Slater Dam	RIVER			9.54	7.63	794.00	5.41	7.00	16.50	1550.0	1080.0	1040	18				
11/12/14	10:00 AM	Blackstone River @ Bikepath bridge @ Rt. 116	RIVER			9.15	7.38	717.00	5.76	7.00	22.20	1500.0	1020.0	962	6				
11/12/14	8:10 AM	Pawtuxet River @ Broad	RIVER			11.86	6.92	2500.00	10.80	19.90	37.80	2640.0	3140.0	2950	18				
11/12/14	11:20 AM	Woonasquatucket @ Valley Street	RIVER			10.78	7.54	850.00	2.68	7.00	5.00	1240.0	1050.0	1080	2				Duplicate
11/12/14	11:20 AM	Woonasquatucket @ Valley Street	RIVER			10.78	7.54	870.00	2.59	7.00	5.00	1250.0	1040.0	989	2				
11/12/14	10:55 AM	Moshassuck @ Mill Street Bridge	RIVER			11.46	7.35	512.00	9.83	79.40	13.00	3960.0	933.0	919	2				
11/25/14	9:00 AM	Blackstone River @ Slater Dam	RIVER			7.37	7.31	606.00	11.30	102.00	16.70	1970.0	2920.0	946	192				
11/25/14	11:00 AM	Pawtuxet River @ Broad	RIVER			9.55	7.27	936.00	6.36	27.40	28.10	2080.0	1230.0	1170	52				
11/25/14	11:00 AM	Pawtuxet River @ Broad	RIVER			9.55	7.27	940.00	6.29	14.50	27.10	2080.0	1460.0	1190	52				Duplicate
11/25/14	1:30 PM	Woonasquatucket @ Valley Street	RIVER			10.51	7.10	312.00	1.87	7.00	5.00	1240.0	574.0	491	10				
11/25/14	12:55 PM	Woonasquatucket @ Manton Ave	RIVER			10.35	6.99	298.00	1.94	7.00	5.00	1190.0	584.0	488	8				
11/25/14	10:15 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			7.51	7.20	1280.00	12.20	7.00	22.80	2440.0	1790.0	1550	8				
11/25/14	2:00 PM	Moshassuck @ Mill Street Bridge	RIVER			9.80	6.94	275.00	3.84	25.30	5.92	2280.0	593.0	528	6				
11/25/14	8:30 AM	Moshassuck @ Higginson Ave.	RIVER			7.77	7.45	136.00	2.84	7.00	5.00	1980.0	417.0	340	4				
12/10/14	8:15 AM	Blackstone River @ Slater Dam	RIVER			3.48	7.13	425.00	19.60	130.00	98.30	1900.0	1170.0	765	23				
12/10/14	8:52 AM	Blackstone River @ Bikepath bridge @ Rt. 116	RIVER			3.20	7.02	390.00	20.00	137.00	80.60	2020.0	1220.0	742	49				
12/10/14	9:39 AM	Blackstone River @ Stalene	RIVER			3.81	6.97	330.00	16.70	141.00	13.60	1650.0	1030.0	746	26				
12/10/14	11:09 AM	Pawtuxet River @ Broad	RIVER			5.56	7.01	561.00	6.10	29.60	20.80	1280.0	1050.0	838	11				
12/10/14	1:37 PM	Woonasquatucket @ Valley Street	RIVER			4.71	7.13	279.00	2.43	9.88	5.69	1110.0	585.0	491	6				
12/10/14	1:37 PM	Woonasquatucket @ Valley Street	RIVER			4.71	7.13	283.00	3.28	7.61	5.75	1190.0	597.0	509	7				
12/10/14	2:09 PM	Moshassuck @ Mill Street Bridge	RIVER			4.84	7.02	366.00	3.86	24.00	9.03	1820.0	691.0	646	10				Duplicate
12/10/14	10:55 AM	Warren Reservoir/Kickemuit River	RIVER			6.84	5.94	274.00	3.60	48.60	36.50	228.0	1210.0	948	9				
12/10/14	10:35 AM	Coles River @ Milford Rd	RIVER			6.25	6.02	186.00	2.57	26.60	38.70	456.0	654.0	649	4				
12/10/14	11:15 AM	Palmer River @ Old Providence Rd., Swansea	RIVER			5.70	6.68	232.00	4.72	45.40	55.60	1490.0	737.0	586	29				
12/10/14	11:30 AM	Runnins River @ River Rd. on RI Mass Border	RIVER			6.15	6.75	252.00	3.65	7.00	21.60	864.0	596.0	565	2				
12/10/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			5.79	6.70	309.00	6.26	92.10	37.00	746.0	795.0	713	10				
12/10/14	9:00 AM	Taunton River @ Berkley Bridge	RIVER			5.79	6.70	314.00	6.91	90.80	37.90	677.0	807.0	708	7				Duplicate
12/10/14	3:00 PM	Ten Mile @ Outlet Of Omega Pond	RIVER			4.43	7.55	1130.00	7.26	59.40	18.30	2490.0	1650.0	1590	4				
12/10/14	1:45 PM	Ten Mile Central Ave.	RIVER			6.17	6.02	523.00	3.63	11.10	18.60	1230.0	873.0	802	4				
12/23/14	9:30 AM	Blackstone River @ Slater Dam	RIVER			4.77	7.15	654.00	18.00	287.00	16.80	2400.0	1160.0	1070	3				
12/23/14	10:53 AM	Pawtuxet River @ Broad	RIVER			5.53	7.07	1080.00	6.73	66.00	13.80	2090.0	1490.0	1450	4				
12/23/14	10:53 AM	Pawtuxet River @ Broad	RIVER			5.53	7.07	1080.00	6.73	91.10	13.50	2020.0	1340.0	1170	4				Duplicate

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS							TSS AND CHLOROPHYLL PARAMETERS			COMMENTS
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)	Phaeophytin (ug/L)	
12/23/14	1:15 PM	Woonasquatucket @ Valley Street	RIVER			5.76	7.12	409.00	3.03	7.42	5.00	1720.0	545.0	584	5			
12/23/14	12:53 PM	Woonasquatucket @ Manton Ave	RIVER			5.42	7.24	382.00	1.71	14.50	5.00	1650.0	618.0	622	6			
12/23/14	1:49 PM	Moshassuck @ Mill Street Bridge	RIVER			6.67	7.04	598.00	7.49	82.90	5.04	3070.0	761.0	880	3			
12/23/14	8:13 AM	Moshassuck @ Higgins Ave, S-1	RIVER			5.19	6.96	497.00	4.05	13.60	5.00	2600.0	700.0	686	5			
12/23/14	10:03 AM	Ten Mile @ Outlet Of Omega Pond	RIVER			4.59	7.17	1240.00	5.82	26.80	22.00	2970.0	1500.0	1550	7			
<b>NUTRIENT BLANKS</b>																		
01/08/14	2:00 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
01/08/14	1:30 PM	Nutrient Blank						<6.0	1.60	<7.0	<5.00	<20	<200.0	<100.0				
02/19/14	10:40 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
02/19/14	1:20 PM	Nutrient Blank						10.60	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
02/20/14	9:45 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	100				
03/05/14	2:15 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.00	<200.0	<100.0				
03/19/14	1:35 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.00	<200.0	<100.0				
03/19/14	2:25 PM	Nutrient Blank						36.00	<1.5	<7.0	<5.00	<20.00	<200.0	<100.0				
04/02/14	2:00 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.00	<200.0	<100.0				
04/02/14	1:30 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.00	<200.0	<100.0				
04/16/14	12:50 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.0	<200.0	<100.0				
04/16/14	1:45 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20.0	<200.0	<100.0				
04/30/14	1:45 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
04/30/14	9:16 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
05/14/14	10:12 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
05/14/14	2:00 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
05/28/14	9:55 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	107				
05/28/14	10:30 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
05/28/14	10:50 AM	Nutrient Blank						8.15	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
06/11/14	8:22 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
06/11/14	2:24 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
06/25/14	9:10 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	131				
06/25/14	10:49 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
06/25/14	1:20 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
07/09/14	12:40 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
07/09/14	8:15 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
07/23/14	8:23	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	200	<100.0				
07/23/14	14:25	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
08/06/14	12:46 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
08/06/14	9:58 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
08/20/14	8:00 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
08/20/14	11:30 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
08/20/14	9:15 AM	Nutrient Blank						8.45	<1.5	<7.0	490	<20	1840	<100.0				
09/03/14	1:56 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
09/03/14	1:43 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
09/17/14	10:51 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.0	<20.	<200	<100.				
09/17/14	1:40 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.0	<20.	<200	<100.				
09/17/14	2:40 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.0	<20.	<200	<100.				
10/01/14	1:40 PM	Nutrient Blank						10.2	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
10/01/14	2:55 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	109				
10/15/14	2:19 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
10/15/14	10:20 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
10/15/14	10:45 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
10/29/14	1:37 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	135				
10/29/14	8:40 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
11/12/14	2:05 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
11/12/14	2:26 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
11/12/14	10:10 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
11/25/14	9:39 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
11/25/14	10:30 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
12/10/14	9:06 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				

Table 30: River and Bay Nutrients Data

NBC River-Bay Nutrients Results 2014

Collection Date	Collection Time	Station	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS						TSS AND CHLOROPHYLL PARAMETERS			COMMENTS	
								NO3+NO2 (ppb)	Nitrite (ppb)	NH3 (ppb)	Ortho-Phosphate (ppb)	Silicate (ppb)	Total Nitrogen (ppb)	Total Dissolved Nitrogen (ppb)	TSS (ppm)	Chl a (ug/L)		Phaeophytin (ug/L)
12/10/14	1:40 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
12/10/14	3:10 PM	Nutrient Blank						9.13	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
12/23/14	12:48 PM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				
12/23/14	10:09 AM	Nutrient Blank						<6.0	<1.5	<7.0	<5.00	<20	<200.0	<100.0				

Table 30: River and Bay Nutrients Data



River Fecal Results 2014  
(MPN/100ML)

Date	Woonasquatucket River						West River			Providence River	Seekonk River
	S-9-Manton Ave.	S-8D - Parking Bridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	W7C-Eagle Street	S-10-Douglas Ave. Bridge	S-10-B Veazie St. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
1/6/2014	230	230	230	2,300	2,300	314				930	
1/7/2014					40	70	230	230	70	230	
1/13/2014	430	430	430	930	230	632				430	2,300
1/14/2014					90	230	70	40	230	230	
1/21/2014	90	40	40	90	90	<30				40	90
1/22/2014					40	90	40	<30	230	90	
1/27/2014	<30	<30	<30	<30	90	40				430	230
1/28/2014					90	<30	<30	140	90	210	
2/3/2014	<30	<30	70	90	230	40				40	<30
2/4/2014					40	40	90	40	750	90	
2/10/2014	110	40	<30	70	90	30				150	
2/11/2014					90	<30	40	90	430	430	
2/17/2014	40	<30	90	<30	40	83				90	
2/18/2014					30	<30	40	40	90	230	
2/24/2014	150	90	90	150	40	90				430	
2/25/2014					230	140	<30	150	2,100	90	
3/3/2014	30	30	<30	70	<30	35				230	<30
3/4/2014					<30	<30	230	90	40	90	
3/10/2014	<30	40	<30	230	90	52				430	<30
3/11/2014					40	90	90	90	150	230	
3/17/2014	<30	40	90	40	<30	40				40	
3/18/2014					40	430	<30	40	90	230	
3/24/2014	<30	<30	<30	40	<30	35				40	<30
3/25/2014					40	<30	<30	<30	40	230	
3/31/2014	90	150	70	930	230	230				750	930
4/1/2014					90	230	40	40	90	430	
4/7/2014	<30	90	150	<30	70	35				430	<30
4/8/2014					>240,000	4,300	430	390	4,300	46,000	
4/14/2014	40	70	40	30	90	<30				90	40
4/15/2014					90	430	150	150	4,300	430	
4/17/2014									90		
4/21/2014	40	40	30	40	<30	60				<30	40
4/22/2014					40	40	40	90	430	90	
4/28/2014	<30	70	90	<30	<30	230				430	90
4/29/2014					40	<30	40	<30	930	90	
5/5/2014	40	30	90	40	230	83				230	90
5/6/2014					40	40	230	40	930	210	
5/12/2014	40	90	<30	430	230	131				1,500	90

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Results 2014  
(MPN/100ML)

Date	Woonasquatucket River						West River			Providence River	Seekonk River
	S-9-Manton Ave.	S-8D - Parking Bridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	W7C-Eagle Street	S-10-Douglas Ave. Bridge	S-10-B Veazie St. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
5/13/2014					90	40	90	90	2,300	430	
5/15/2014									930		
5/19/2014	430	230	230	230	430	131			2,300	90	
5/20/2014					90	230	230	930	90	390	
5/27/2014	230	200	70	430	230	230			230	90	
5/28/2014					430	230	430	430	930	930	
6/2/2014	230	90	40	230	2,300	230			430	<30	
6/3/2014					430	210	930	1,500	930	2,300	
6/9/2014	150	90	1,500	9,300	930	462			4,300	90	
6/10/2014					110,000	110,000	9,300	110,000	110,000	24,000	
6/16/2014	150	930	1,500	4,300	9,300	1,857			24,000	<30	
6/17/2014					930	2,300	1,500	930	930	4,300	
6/18/2014									2,300		
6/23/2014	30	230	2,300	230	430	930			930	230	
6/24/2014					930	430	430	2,300	2,100	930	
6/30/2014	230	4,300	430	750	2,100	430			430		
7/1/2014					24,000	2,300	930	2,300	1,500	4,300	
7/3/2014		230			46,000	230	430	430	930	46,000	
7/7/2014	430	4,300	2,300	4,300	9,300	1,463			24,000	1,500	
7/8/2014					4,300	930	4,300	4,300	4,300	9,300	
7/14/2014	70	230	430	24,000	1,500	930			4,300	40	
7/15/2014					110,000	2,300	9,300	9,300	110,000	110,000	
7/21/2014	150	4,300	930	4,300	2,300	930			9,300	230	
7/22/2014					2,300	1,500	2,300	2,300	2,300	2,300	
7/24/2014	150	4,300		15,000	110,000	6,324		390	9,300	>240,000	
7/28/2014	7,500	2,300	>240,000	46,000	4,300	71,134			1,500	4,300	
7/29/2014					9,300	4,300	2,300	9,300	9,300	9,300	
8/4/2014	230	230	150	750	930	3,145			2,300	<30	
8/5/2014					930	930	430	430	4,300	2,300	
8/12/2014	230	90	230	430	430	1,463			930	<30	
8/13/2014					110,000	>240,000	46,000	110,000	24,000	110,000	
8/18/2014	40	140	230	430	4,300	430			430	40	
8/19/2014					230	40	430	430	2,300	2,300	
8/21/2014					230				3,145		
8/25/2014	230	150	430	430	430	314			430	230	
8/26/2014					750	430	430	930	4,300	230	
8/28/2014									9,300		

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Results 2014  
(MPN/100ML)

Date	Woonasquatucket River						West River			Providence River	Seekonk River
	S-9-Manton Ave.	S-8D - Parking Bridge Olneyville	S-8C-Delaine St.	S-7B-Pleasant Valley Pkwy.	S-7A-Kinsley St.	W7C-Eagle Street	S-10-Douglas Ave. Bridge	S-10-B Veazie St. Bridge	S-11-West River St. Bridge	S-12- Crawford St. Bridge	SR-5A Pitman Street
9/2/2014	230	150	40	1,500	7,500	2,000				4,300	90
9/3/2014					9,300	430	2,300	230	24,000	4,300	
9/8/2014	230	40	230	2,300	4,300	462				930	230
9/9/2014					4,300	430	2,300	430	2,300	230	
9/15/2014	230	430	230	230	230	314				2,300	40
9/16/2014					4,300	230	430	930	930	2,300	
9/22/2014	230	2,300	9,300	930	4,300	1,463				4,300	<30
9/23/2014					2,300	2,300	90	230	230	2,300	
9/29/2014	90	200	90	230	430	186				430	
9/30/2014					430	90	230	90	4,300	230	
10/6/2014	430	90	930	430	930	314				2,300	40
10/7/2014					430	230	430	230	930	930	
10/14/2014	430	430	930	430	430	430				4,300	230
10/15/2014					90	230	40	40	4,300	230	
10/20/2014	40	90	40	930	2,300	197				430	40
10/21/2014					390	230	2,300	40	930	430	
10/27/2014	40	150		430	430	90				430	
10/28/2014					430	230	150	230	930	430	
11/3/2014	40	<30	<30	430	230	60				90	230
11/5/2014					150	40	150	150	930	430	
11/10/2014	40	<30	430	150	430	60				930	<30
11/12/2014					2,300	150	40	230	230	1,200	
11/14/2014					4,300						
11/17/2014	4,300	750	46,000	>240,000	46,000	162,481				46,000	9,300
11/18/2014					2,300	930	1,500	930	1,500	930	
11/24/2014	930	430	2,300	110,000	110,000	47,244				46,000	110,000
11/25/2014					430	430	430	930	430	430	
12/1/2014	70	40	90	140	40	90				430	150
12/2/2014					70	40	150	230	230	1,500	
12/8/2014	430	930	640	930	750	994				430	40
12/9/2014					9,300	24,000	930	230	1,500	4,300	
12/15/2014	430	90	430	90	110	186				40	90
12/16/2014					30	430	90	40	110	90	
12/22/2014	40	40	<30	90	90	35				230	90
12/23/2014					30	90	4,300	2,300	230	40	
12/29/2014	40	40	90	40	40	40				430	230
12/30/2014					40	<30	<30	40	<30	230	

Table 31: Woonasquatucket, West, Providence and Seekonk Rivers Fecal Coliform Data

River Fecal Data 2014  
(MPN/100 ML)

Date	Moshassuck River							Blackstone River		Pawtuxet River
	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetery	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetery St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
1/6/2014						3,145		230	<30	90
1/7/2014	40	40		930	230	415	750			
1/13/2014						632		230	230	430
1/14/2014	230	230	930	430	430	994	230			
1/21/2014						60		40	<30	35
1/22/2014	40	40	40	90	230	144	230			
1/27/2014						430		<30	<30	60
1/28/2014	<30	<30	60	40	230	430	230			
2/3/2014						835		<30	<30	60
2/4/2014	<30	70	96		70	568	40			
2/10/2014				40		1,463		<30	<30	35
2/11/2014	90	<30	79	<30	430	152	230			
2/17/2014						835		<30	40	52
2/18/2014	150	<30	90	40	230	137	930			
2/24/2014						632		90	40	90
2/25/2014	40	40	60	90	2,300	314	230			
3/3/2014						77		<30	<30	60
3/4/2014	<30	430	230	90	<30	144	430			
3/10/2014						750		<30	<30	88
3/11/2014	90	230	116	90	70	373	430			
3/17/2014						90		230	<30	52
3/18/2014	<30	230	373	90	230	131	90			
3/24/2014						197		70	<30	46
3/25/2014	90	40	144	230	90	314	430			
3/31/2014						803		90	40	314
4/1/2014	70	930	430	230	390	144	430			
4/7/2014						144		40	40	53
4/8/2014	430	<30	33,226	4,300	24,000	20,683	46,000			
4/14/2014						314		40	40	35
4/15/2014	40	430	835	930	1,500	3,145	4,300			
4/17/2014					150	314	90			
4/21/2014						79		40	<30	35
4/22/2014	230	230	1,857	430	430	314	150			
4/28/2014						1,181		40	40	<30
4/29/2014	<30	90	314	230	930	430	430			
5/5/2014						1,463		<30	<30	79
5/6/2014	40	1,200	2,540	1,500	230	430	430			
5/8/2014	40	1,500	930	230	1,500	930	430			

Table 32: Moshassuck, Blackstone and Pawtuxet Rivers Fecal Coliform Data

River Fecal Data 2014  
(MPN/100 ML)

Date	Moshassuck River							Blackstone River		Pawtuxet River
	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetery	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetery St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
5/12/2014						3,145		<30	<30	35
5/13/2014	230	2,300	632	2,300	930	632	930			
5/15/2014		1,313		2,300	930	430	430			
5/19/2014						994		430	230	173
5/20/2014	430	430	314	230	2,300	2,941	9,300			
5/22/2014				230	430	632	230			
5/27/2014						632		40	40	144
5/28/2014	90	930	2,000	2,300	930	4,625	2,300			
6/2/2014						430		40	430	96
6/3/2014	430	40	314	90	2,300	314	430			
6/9/2014						1,463		40	430	144
6/10/2014	930	24,000	10,159	110,000	46,000	51,381	110,000			
6/16/2014						51,381		430	930	314
6/17/2014	110,000	1,500	314	430	1,500	33,226	46,000			
6/18/2014				2,300		14,940	24,000			
6/19/2014	299	2,300	430	930	2,300	20,683	4,300			
6/20/2014	3,145	2,300	2,300	230	230	1,904	930			
6/23/2014						462		<30	40	289
6/24/2014	230	430	750	430	750	994	930			
6/30/2014						1,463		90	70	186
7/1/2014	430	930	430	430	230	2,941	750			
7/3/2014						994				
7/7/2014						4,300		230	430	314
7/8/2014	90	110	1,500	2,300	4,300	4,300	2,300			
7/14/2014						3,735		90	90	994
7/15/2014	430	2,300	3,145	4,300	24,000	33,226	110,000			
7/21/2014						2,000		150	430	430
7/22/2014	430	930	1,857	2,300	2,300	4,625	1,500			
7/24/2014	150	430	750	2,300	24,000	9,300	9,300			
7/28/2014						110,000		430	9,300	9,300
7/29/2014	430	2,300	33,226	7,500	4,300	6,324	24,000			
8/4/2014						1,463		40	930	60
8/5/2014	230	2,300	1,360	430	4,300	2,000	930			
8/12/2014						314		230	40	186
8/13/2014	24,000	9,300	26,268	46,000	46,000	46,000	46,000			
8/18/2014						930		230	430	96
8/19/2014	90	930	632	430	230	462	930			
8/21/2014							230			

Table 32: Moshassuck, Blackstone and Pawtuxet Rivers Fecal Coliform Data

River Fecal Data 2014  
(MPN/100 ML)

Date	Moshassuck River							Blackstone River		Pawtuxet River
	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetery	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetery St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
8/25/2014						835		150	<30	53
8/26/2014	230	9,300	2,300	2,300	930	314	430			
8/28/2014		9,300	1,360	2,300						
9/2/2014						2,540		230	430	116
9/3/2014	430	46,000	24,000	24,000	2,300	994	2,300			
9/8/2014						4,300		90	930	314
9/9/2014	90		462	430	430	430	2,300			
9/15/2014						6,324		230	430	144
9/16/2014	40	4,300	4,300	4,300	4,300	994	430			
9/22/2014						4,300		40	90	727
9/23/2014	90	230	430	230	2,300	994	930			
9/29/2014						430		40	230	90
9/30/2014	90	230	144	230	7,500	314	2,300			
10/6/2014						6,324		90	230	90
10/7/2014	90	930	1,360	930	2,300	2,000	4,300			
10/14/2014						1,313		430	230	632
10/15/2014	90	230	230	90	90	915	430			
10/20/2014						197		40	70	77
10/21/2014	<30	24,000	14,940	4,300	390	2,540	930			
10/27/2014						3,145		90	150	60
10/28/2014	230	90	14,940	4,300	4,300	3,145	90			
10/30/2014	<30	230	186	1,500	930	930	2,300			
11/3/2014						632		<30	90	35
11/5/2014	<30	150	462	230	40	116	430			
11/10/2014						60		<30	<30	40
11/12/2014	40	200	930	430	430	3,735	430			
11/14/2014						5,679				
11/17/2014						24,000		90	2,300	314
11/18/2014	230	9,300	6,324	9,300	1,200	2,000	2,300			
11/24/2014						18,974		90	40	314
11/25/2014	90	90	96	230	430	430	1,500			
12/1/2014						568		<30	40	35
12/2/2014	<30	150	90	30	430	3,145	2,300			
12/8/2014						96		230	750	60
12/9/2014	90	430	214	230	4,300	6,324	4,300			
12/15/2014						314		40	90	52
12/16/2014	<30	90	314	90	90	102	150			
12/22/2014						62		230	30	35

Table 32: Moshassuck, Blackstone and Pawtuxet Rivers Fecal Coliform Data

River Fecal Data 2014  
(MPN/100 ML)

	Moshassuck River							Blackstone River		Pawtuxet River
Date	S-1- Higginson Ave. Bridge	S-4D- St. Francis Cemetery	S-4B- End of Moshassuck St.	S-5- Footbridge Mill St.	S-4- Cemetery St. Bridge	S-5A- Stevens St. Bridge	S-6- Park Row Bridge	S-2- Whipple Bridge	S-3- Slater Mill Dam	Pawtuxet River @ Broad Street
12/23/2014	150	4,300	2,538	930	140	430	110			
12/29/2014						230		40	40	52
12/30/2014	40	430	90	230	150	2,000	430			

Table 32: Moshassuck, Blackstone and Pawtuxet Rivers Fecal Coliform Data

Results are in MPN/100 mL or Most Probable Number/100 ml																	
	Date	1/15/2014	3/12/2014	5/21/2014	6/4/2014	6/18/2014	6/19/2014*	7/2/2014	7/16/2014	7/30/2014	8/14/2014	8/21/2014	8/27/2014	9/10/2014	9/23/2014	9/24/2014	
Seekonk River	Division St Dock	93		93	2,300	93		93	46,000	430	2,300	750	23	23	230	230	
	Bishop Pt	390		93	1,500	930		23	240,000	230	930	93	43	230	93	93	
	BP Outfall	2,300		75	2,300	750		93	15	230	930		23	93	43	43	
	Phillipsdale Landing	930		75	230	93		23	43	23	930	43	9	23	43	43	
	Phillipsdale Landing Duplicate	2,300		43	93	430		23	15	43	4,300	43	4	23	93	43	
	Narr Boating Center	2,300		150	230	43	40	93	230	75	930	93	43	9	9	43	
	Crook Pt	1,500		43	150	23	30	9	930	230	930	43	9	43	9	23	
	Comm. Boating Center	930		23	230	23	930	20	93	43	930	23	9	43	93	23	
	Point St Bridge	230		750	7,500	2,300	230	230	930	230	9,300	430	23	230	2,300	43	
	Point St Bridge Duplicate						430										
Providence River	Collier Pt Park	430		930	93	43	90	93	930	43	2,300	150	23	43	93	43	
	Bold Point											43					
	FP Outfall	230	9	23	93	43	30	9	43	93	2,300	3	9	43	23	43	
	South FP East	930	9	23	43	23	30	4	15	75	4,300		3	9	93	3	
	South FP East Duplicate																
	Save the Bay	430	4	23	9	23		43	9	23	430		3	23	23	4	
	Edgewood Yacht Club	64	23	7	4	3	30	4	15	23	2,300		43	9	23	3	
	Pawt/Prov Junction	230	93	43	4	230	90	9		430			93	23		3	
	Gaspee Pt	230	20	9	4	9	30	4		15	7,500		4	4		4	
	Bullock Neck	93	23	15	3	9	30	4		4	2,300		3	4		3	
	Bullocks Reach Buoy	230	15	11	3	9	40	3		21	4300		3	4		3	
	Shawomet	430	4	23	4	23	40	4		23	930		3	9		4	
	North of Nayatt Point	93	9	9	3	3	30	3			230		3	3		3	
	Conimicut Pt	93	4	4	3	4	30	3		4	2300		3	3		4	
	Conimicut Pt Duplicate	230	4	4	3	4	40	3		9	2300		3	9		3	
	Special Wet Weather Study Samples Conditional Areas	Old Mill Creek (1-8A)															
		East Grove Ave. (1-7)															
		East Grove Ave. (1-7) Duplicate															
Opposite Barrington Town Beach (1-10)																	
Conditional Area A (1-11A)																	
Flashing Green Buoy #1 (1-5C)																	
Opposite Rock Point (1-6A)																	
1-1 Conimicut Point																	
Opposite Our Lady of Providence Seminary (1-2)																	
Off Colt State Park (1-3C)																	
Seekonk River Geomean Sample Day	933		75	480	159	35	37	583	121	1317	90	16	37	44	56		
Providence River Geomean Sample Day	241	11	23	15	20	63	9	68	31	2000	45	7	13	81	6		
Conditional Areas Geomean Sample Day																	
Daily Max	2,300	93	930	7,500	2,300	930	230	240,000	430	9,300	750	93	230	2,300	230		
Final Sample Day Geomean	370	11	34	45	38	59	14	200	49	1740	66	9	18	59	13		
Percent Greater than 400 MPN/100 ml	45%	0%	9%	18%	18%	12%	0%	36%	10%	95%	18%	0%	0%	7%	0%		
Number of Stations Sampled (including duplicates)	22	12	22	22	22	17	22	14	21	21	11	22	22	14	22		
Bay Blank	<3	<3	<3	<3	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3		
Rain Data**	Rain total - Day of sampling (in time prior to sampling)	T	0.46	0.00	T	0.00	0.14	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Rain total - 1 Day prior to sampling	0.78	0.00	T	0.00	0.00	0.00	0.00	0.03	0.00	2.26	0.00	0.00	0.00	0.00	0.00	
	Rain total - 2 Days prior to sampling	0.00	T	0.01	0.00	0.00	0.00	0.00	0.16	0.10	T	0.00	0.00	0.00	0.00	0.00	
	Rain total - 3 Days prior to sampling	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.37	0.00	0.02	
	Rain total - 4 Days prior to sampling	1.24	0.00	0.48	T	T	0.00	0.00	0.00	T	0.00	0.00	0.00	T	0.00	0.00	
	Rain total - 5 Days prior to sampling	0.09	0.00	0.05	0.16	1.22	T	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	
	Total Rainfall	2.23	0.46	0.54	0.16	1.22	0.14	0.00	0.64	0.17	2.26	0.00	0.03	0.37	0.02	0.02	
	High tide	7:27	6:11	14:32	13:42	13:19	14:13	12:24	12:03	11:06	11:40	5:45	9:52	9:32	8:08	8:43	
Low tide	12:39	11:54	7:17	6:30	6:02	6:52	5:16	4:52	4:08	4:25	10:54	15:18	14:53	13:26	14:10		
* Samples from 6/19 were analyzed as freshwater samples with a higher method detection limit of 30 MPN/100ML. Results may not be accurate for samples of 30 MPN/100ml.																	
**Rain data from T.F. Green Airport. T = trace amount																	

Table 33. Bay Fecal coliform data



Results are in MPN/100 mL or Most Probable Num													
	Date	10/8/2014	10/9/2014	10/10/2014	10/22/2014	11/6/2014	11/20/2014	12/3/2014	12/17/2014	Annual Geomean	Annual Min	Annual Max	
Seekonk River	Division St Dock	230			93	9	230	9,300	230	270	9	46,000	
	Bishop Pt	1,500	23	23	93	43	430	9,300	430	281	23	240,000	
	BP Outfall	430			230	93	930	24,000	430	261	15	24,000	
	Phillipsdale Landing	75			230	430	210	9,300	24,000	144	4	24,000	
	Phillipsdale Landing Duplicate	93			230	43	430	4,300	9,300				
	Narr Boating Center	43	9	15	93	93	430	230	2,300	95	9	2,300	
	Crook Pt	75			93	43	230	2,300	930	98	9	2,300	
	Comm. Boating Center	430	9	23	230	43	93	43	230	74	9	930	
Providence River	Point St Bridge	23			430	4,300	930	4,300	4,300	600	23	9,300	
	Point St Bridge Duplicate												
	Collier Pt Park	43			93	43	230	430	2,300	149	23	2,300	
	Bold Point									43	43	43	
	FP Outfall	15			230	4	43	93	21	36	3	2,300	
	South FP East	3	93	15	43	15	430	150	230	34	3	4,300	
	South FP East Duplicate		9	23									
	Save the Bay	23	3	15	43	23	93	9	43	21	3	430	
	Edgewood Yacht Club	4			93	9	9	9	7	16	3	2,300	
	Pawt/Prov Junction	75	21	23	23	7	430	15	43	40	3	430	
	Gaspee Pt	4	3	3	9	9	210	9	43	15	3	7,500	
	Bullock Neck	3	4	4	9	4	93	43	230	14	3	2,300	
	Bullocks Reach Buoy	3		3	3	7	120	23	23	14	3	4,300	
	Shawomet	4	4	3	43	3	23	4	43	13	3	930	
	North of Nayatt Point	3	4	3	3	3	430	150	43	11	3	430	
	Conimicut Pt	3	3	3	4	3	43	23	9	9	3	2,300	
	Conimicut Pt Duplicate	9	3	3	7	9	7	15	43				
	Special Wet Weather Study Samples Conditional Areas	Old Mill Creek (1-8A)	3	3	4						3	3	4
		East Grove Ave. (1-7)	4	3	3						3	3	4
		East Grove Ave. (1-7) Duplicate	3	3	3								
Opposite Barrington Town Beach (1-10)		3	4	3						3	3	4	
Conditional Area A (1-11A)		3	3	3						3	3	9	
Flashing Green Buoy #1 (1-5C)		9	3	4						5	3	9	
Opposite Rock Point (1-6A)		3	3	3						3	3	43	
1-1 Conimicut Point		43	4	9						12	3	43	
Opposite Our Lady of Providence Seminary (1-2)		3	3	3						3	3	3	
Off Colt State Park (1-3C)		3	3	3						3	3	3	
Seekonk River Geomean Sample Day	165	14	19	137	60	362	4605	1537	166	4	240,000		
Providence River Geomean Sample Day	10	6	7	29	13	118	42	78	28	3	9,300		
Conditional Areas Geomean Sample Day	4	3	4						4	3	43		
Daily Max	1,500	93	23	430	4,300	930	24,000	24,000					
Final Sample Day Geomean	15	5	6	47	21	172	188	201					
Percent Greater than 400 MPN/100 ml	9%	0%	0%	5%	9%	38%	36%	36%					
Number of Stations Sampled (including duplicates)	32	23	24	22	22	21	22	22					
Bay Blank	<3	<3	<3	<3	<3	<3	<3	<3					
Rain Data**	Rain total - Day of sampling (in time prior to sampling)	0.05	0.00	0.00	0.86	0.42	0.00	0.14	0.31				
	Rain total - 1 Day prior to sampling	T	0.05	0.00	0.11	0.00	0.00	0.05	0.00				
	Rain total - 2 Days prior to sampling	0.00	T	0.05	0.00	0.00	0.00	T	0.00				
	Rain total - 3 Days prior to sampling	0.00	0.00	T	T	0.00	1.50	T	0.00				
	Rain total - 4 Days prior to sampling	0.28	0.00	0.00	T	0.14	T	0.00	0.00				
	Rain total - 5 Days prior to sampling	0.01	0.28	0.00	0.00	0.23	0.00	0.30	0.00				
	Total Rainfall	0.34	0.33	0.05	0.97	0.79	1.50	0.49	0.31				
High tide	8:21	9:10	9:59	7:33	7:03	5:58	4:58	15:53					
Low tide	13:42	14:31	15:18	13:02	12:22	11:37	10:33	9:34					
* Samples from 6/19 were analyzed as freshwater samples with a higher method detection limit of 30 MPN/100ML. Results may not be accurate for samples of 30 MPN/100ml.													
**Rain data from T.F. Green Airport. T = trace amount													

Table 33. Bay Fecal coliform data

Bay Enterococci Data 2014

Results are in MPN/100 mL or Most Probable Number/100 ml																					
Date	1/15/2014	3/12/2014	5/21/2014	6/4/2014	6/18/2014	7/2/2014	7/16/2014	7/30/2014	8/14/2014	8/27/2014	9/10/2014	9/24/2014	10/8/2014	10/22/2014	11/6/2014	11/20/2014	12/3/2014	12/17/2014	Annual Geomean	Annual Min	Annual Max
<b>Phillipsdale Landing</b>	171	No Sample	10	30	10	20	10	10	216	10	10	10	10	63	10	74	1,421	816	34	10	1,421
<i>Phillipsdale Landing Duplicate</i>	145	No Sample	10	41	10	10	10	10	158	10	10	10	52	74	10	31	801	985			
<b>Point St Bridge</b>	231	No Sample	20	379	97	30	75	52	1,223	20	20	10	10	75	754	160	1,723	2,603	18	10	2,603
<b>South FP East</b>	169	10	10	10	10	10	10	10	435	10	10	10	10	20	10	31	20	31	20	10	435
<b>Gaspee Pt</b>	146	10	10	10	10	10	No Sample	10	1,658	10	10	10	10	10	10	146	10	52	19	10	1,658
<b>Conimicut Pt</b>	63	10	10	10	10	932	No Sample	10	323	10	10	10	10	10	20	10	10	20	16	10	932
<i>Conimicut Pt Duplicate</i>	63	10	10	10	10	10	No Sample	10	279	10	10	10	10	10	10	10	10	10			
<b>Seekonk River Geomean Sample Day</b>	157		10	35	10	14	10	10	185	10	10	10	23	68	10	48	1067	897	<b>34</b>		
<b>Providence River Geomean Sample Day</b>	118	10	11	21	16	31	27	14	603	11	11	10	10	17	27	37	32	61	<b>25</b>		
<b>Daily Max</b>	231	10	20	379	97	932	75	52	1,658	20	20	10	52	75	754	160	1,723	2,603			
<b>Final Sample Day Geomean</b>	128	10	11	24	14	25	17	13	430	11	11	10	13	25	20	40	87	131			

Table 34: Bay Enterococci Data

CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Result	Units
5/1/2014	7:00	NO3NO2 EPA Method 353.2	0.269	mg/L
5/1/2014	7:00	TKN - Copper Sulfate Digestion - TKN	2.24	mg N/L
5/1/2014	7:00	Copper	12.64	ug/L
5/1/2014	7:00	Zinc	33.71	ug/L
5/1/2014	7:00	BOD SM 5210B	50.12	ppm
5/1/2014	7:00	TSS SM 5240D - TSS	183.33	ppm
5/1/2014	7:00	Aluminum	297.1	ug/L
5/1/2014	7:00	Iron	503	ug/L
5/1/2014	7:00	Chromium	<10	ug/L
5/1/2014	7:00	Lead	<10	ug/L
5/1/2014	7:00	Nickel	<10	ug/L
5/1/2014	7:00	Cadmium	<2.5	ug/L
5/1/2014	8:15	NO2-N EPA 353.2 - Nitrite	0.0259	mg/L
5/1/2014	8:15	NO3NO2 EPA Method 353.2	0.323	mg/L
5/1/2014	8:15	Tetrachlorethene	1	ppb
5/1/2014	8:15	Toluene	1	ppb
5/1/2014	8:15	NH3-N EPA 351.2 - Ammonia	1.68	ppm
5/1/2014	8:15	TKN - Copper Sulfate Digestion - TKN	4.98	mg N/L
5/1/2014	8:15	Oil and Grease EPA Method 1664 (SIU)	5.256	ppm
5/1/2014	8:15	Oil and Grease EPA Method 1664 (PLANT)	5.26	ppm
5/1/2014	8:15	Mercury EPA Method 245.7 - Mercury	24.5	ng/L
5/1/2014	8:15	Copper	31.58	ug/L
5/1/2014	8:15	BOD SM 5210B	32.74	ppm
5/1/2014	8:15	Lead	41.6	ug/L
5/1/2014	8:15	TSS SM 5240D - TSS	72.67	ppm
5/1/2014	8:15	Zinc	93.42	ug/L
5/1/2014	8:15	Aluminum	710.4	ug/L
5/1/2014	8:15	Iron	1364	ug/L
5/1/2014	8:15	1,1,1-Trichloroethane	<1	ppb
5/1/2014	8:15	1,1,2,2-Tetrachlorethane	<1	ppb
5/1/2014	8:15	1,1,2-Trichloroethane	<1	ppb
5/1/2014	8:15	1,1-Dichloroethane	<1	ppb
5/1/2014	8:15	1,1-Dichloroethene	<1	ppb
5/1/2014	8:15	1,2-dichlorobenzene	<1	ppb
5/1/2014	8:15	1,2-Dichloroethane	<1	ppb
5/1/2014	8:15	1,2-Dichloropropane	<1	ppb
5/1/2014	8:15	1,3-dichlorobenzene	<1	ppb
5/1/2014	8:15	1,4-dichlorobenzene	<1	ppb
5/1/2014	8:15	Benzene	<1	ppb
5/1/2014	8:15	Bromodichloromethane	<1	ppb
5/1/2014	8:15	Bromoform	<1	ppb
5/1/2014	8:15	Carbon Tetrachloride	<1	ppb
5/1/2014	8:15	Chlorobenzene	<1	ppb
5/1/2014	8:15	Chloroform	<1	ppb
5/1/2014	8:15	cis-1,3-Dichloropropene	<1	ppb

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

## All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Result	Units
5/1/2014	8:15	Dibromochloromethane	<1	ppb
5/1/2014	8:15	Ethylbenzene	<1	ppb
5/1/2014	8:15	o- xylene	<1	ppb
5/1/2014	8:15	p&m xylene	<1	ppb
5/1/2014	8:15	Trans-1,2-Dichloroethene	<1	ppb
5/1/2014	8:15	Trans-1,3-Dichloropropene	<1	ppb
5/1/2014	8:15	Trichlorethene	<1	ppb
5/1/2014	8:15	Trichlorofluoromethane	<1	ppb
5/1/2014	8:15	Vinyl Chloride	<1	ppb
5/1/2014	8:15	1,2-Dichlorobenzene	<10	ppb
5/1/2014	8:15	1,3-Dichlorobenzene	<10	ppb
5/1/2014	8:15	1,4-Dichlorobenzene	<10	ppb
5/1/2014	8:15	124-Trichlorobenzene	<10	ppb
5/1/2014	8:15	12-Diphenylhydrazine	<10	ppb
5/1/2014	8:15	2,4-Dichlorophenol	<10	ppb
5/1/2014	8:15	2,4-Dimethylphenol	<10	ppb
5/1/2014	8:15	2,4-Dinitrophenol	<10	ppb
5/1/2014	8:15	2,4-Dinitrotoluene	<10	ppb
5/1/2014	8:15	2,6-Dinitrotoluene	<10	ppb
5/1/2014	8:15	246-Trichlorophenol	<10	ppb
5/1/2014	8:15	2-Chloronaphthalene	<10	ppb
5/1/2014	8:15	2-Chlorophenol	<10	ppb
5/1/2014	8:15	2Methyl46dinitrophen	<10	ppb
5/1/2014	8:15	2-Nitrophenol	<10	ppb
5/1/2014	8:15	33-Dichlorobenzidine	<10	ppb
5/1/2014	8:15	4Bromophenphenether	<10	ppb
5/1/2014	8:15	4Chloro3methylphenol	<10	ppb
5/1/2014	8:15	4Chlorophenphenether	<10	ppb
5/1/2014	8:15	4-Nitrophenol	<10	ppb
5/1/2014	8:15	Acenaphthene	<10	ppb
5/1/2014	8:15	Acenaphthylene	<10	ppb
5/1/2014	8:15	Anthracene	<10	ppb
5/1/2014	8:15	Benzidine	<10	ppb
5/1/2014	8:15	Benzo(a)anthracene	<10	ppb
5/1/2014	8:15	Benzo(a)pyrene	<10	ppb
5/1/2014	8:15	Benzo(b)fluoranthene	<10	ppb
5/1/2014	8:15	Benzo(g,h,i)perylene	<10	ppb
5/1/2014	8:15	Benzo(k)fluoranthene	<10	ppb
5/1/2014	8:15	bis2chloroethoxymeth	<10	ppb
5/1/2014	8:15	bis2chloroethylether	<10	ppb
5/1/2014	8:15	bis2chloroisoproethe	<10	ppb
5/1/2014	8:15	bis2ethylhexylphthal	<10	ppb
5/1/2014	8:15	Bromomethane	<10	ppb

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Result	Units
5/1/2014	8:15	Butylbenzylphthalate	<10	ppb
5/1/2014	8:15	Chloroethane	<10	ppb
5/1/2014	8:15	Chloromethane	<10	ppb
5/1/2014	8:15	Chromium	<10	ug/L
5/1/2014	8:15	Chrysene	<10	ppb
5/1/2014	8:15	Dibenzoanthracene	<10	ppb
5/1/2014	8:15	Diethylphthalate	<10	ppb
5/1/2014	8:15	Dimethylphthalate	<10	ppb
5/1/2014	8:15	di-n-butylphthalate	<10	ppb
5/1/2014	8:15	Di-n-octylphthalate	<10	ppb
5/1/2014	8:15	Fluoranthene	<10	ppb
5/1/2014	8:15	Fluorene	<10	ppb
5/1/2014	8:15	Hexachlorobenzene	<10	ppb
5/1/2014	8:15	Hexachlorobutadiene	<10	ppb
5/1/2014	8:15	Hexachloroethane	<10	ppb
5/1/2014	8:15	Hexacyclopentadien	<10	ppb
5/1/2014	8:15	Indeno(123-cd)pyrene	<10	ppb
5/1/2014	8:15	Isophorone	<10	ppb
5/1/2014	8:15	Naphthalene	<10	ppb
5/1/2014	8:15	Nickel	<10	ug/L
5/1/2014	8:15	Nitrobenzene	<10	ppb
5/1/2014	8:15	Nnitrosodimethylamin	<10	ppb
5/1/2014	8:15	Nnitrosodinpropylami	<10	ppb
5/1/2014	8:15	Nnitrosodiphenylamin	<10	ppb
5/1/2014	8:15	Pentachlorophenol	<10	ppb
5/1/2014	8:15	Phenanthrene	<10	ppb
5/1/2014	8:15	Phenol	<10	ppb
5/1/2014	8:15	Pyrene	<10	ppb
5/1/2014	8:15	2-Chloroethylvinylether	<2	ppb
5/1/2014	8:15	Cadmium	<2.5	ug/L
5/1/2014	8:15	Cyanide	<4.00	ppb
5/1/2014	8:15	Methylene Chloride	<5	ppb
5/1/2014	8:15	Fecal Coliform (3 tube) SM 9221E - Fecal	>24000	MPN/100 ml
5/1/2014	9:45	NO2-N EPA 353.2 - Nitrite	0.0232	mg/L
5/1/2014	9:45	NO3NO2 EPA Method 353.2	0.338	mg/L
5/1/2014	9:45	Toluene	1	ppb
5/1/2014	9:45	NH3-N EPA 351.2 - Ammonia	1.69	ppm
5/1/2014	9:45	TKN - Copper Sulfate Digestion - TKN	4.91	mg N/L
5/1/2014	9:45	Oil and Grease EPA Method 1664 (SIU)	4.968	ppm
5/1/2014	9:45	Oil and Grease EPA Method 1664 (PLANT)	4.97	ppm
5/1/2014	9:45	Lead	30.34	ug/L
5/1/2014	9:45	BOD SM 5210B	33.26	ppm
5/1/2014	9:45	Mercury EPA Method 245.7 - Mercury	33.9	ng/L
5/1/2014	9:45	Copper	35.25	ug/L
5/1/2014	9:45	TSS SM 5240D - TSS	72.67	ppm

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

## All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Result	Units
5/1/2014	9:45	Zinc	82.05	ug/L
5/1/2014	9:45	Aluminum	861	ug/L
5/1/2014	9:45	Iron	1540	ug/L
5/1/2014	9:45	1,1,1-Trichloroethane	<1	ppb
5/1/2014	9:45	1,1,2,2-Tetrachlorethane	<1	ppb
5/1/2014	9:45	1,1,2-Trichloroethane	<1	ppb
5/1/2014	9:45	1,1-Dichloroethane	<1	ppb
5/1/2014	9:45	1,1-Dichloroethene	<1	ppb
5/1/2014	9:45	1,2-dichlorobenzene	<1	ppb
5/1/2014	9:45	1,2-Dichloroethane	<1	ppb
5/1/2014	9:45	1,2-Dichloropropane	<1	ppb
5/1/2014	9:45	1,3-dichlorobenzene	<1	ppb
5/1/2014	9:45	1,4-dichlorobenzene	<1	ppb
5/1/2014	9:45	Benzene	<1	ppb
5/1/2014	9:45	Bromodichloromethane	<1	ppb
5/1/2014	9:45	Bromoform	<1	ppb
5/1/2014	9:45	Carbon Tetrachloride	<1	ppb
5/1/2014	9:45	Chlorobenzene	<1	ppb
5/1/2014	9:45	Chloroform	<1	ppb
5/1/2014	9:45	cis-1,3-Dichloropropene	<1	ppb
5/1/2014	9:45	Dibromochloromethane	<1	ppb
5/1/2014	9:45	Ethylbenzene	<1	ppb
5/1/2014	9:45	o- xylene	<1	ppb
5/1/2014	9:45	p&m xylene	<1	ppb
5/1/2014	9:45	Tetrachlorethene	<1	ppb
5/1/2014	9:45	Trans-1,2-Dichloroethene	<1	ppb
5/1/2014	9:45	Trans-1,3-Dichloropropene	<1	ppb
5/1/2014	9:45	Trichlorethene	<1	ppb
5/1/2014	9:45	Trichlorofluoromethane	<1	ppb
5/1/2014	9:45	Vinyl Chloride	<1	ppb
5/1/2014	9:45	1,2-Dichlorobenzene	<10	ppb
5/1/2014	9:45	1,3-Dichlorobenzene	<10	ppb
5/1/2014	9:45	1,4-Dichlorobenzene	<10	ppb
5/1/2014	9:45	124-Trichlorobenzene	<10	ppb
5/1/2014	9:45	12-Diphenylhydrazine	<10	ppb
5/1/2014	9:45	2,4-Dichlorophenol	<10	ppb
5/1/2014	9:45	2,4-Dimethylphenol	<10	ppb
5/1/2014	9:45	2,4-Dinitrophenol	<10	ppb
5/1/2014	9:45	2,4-Dinitrotoluene	<10	ppb
5/1/2014	9:45	2,6-Dinitrotoluene	<10	ppb
5/1/2014	9:45	246-Trichlorophenol	<10	ppb
5/1/2014	9:45	2-Chloronaphthalene	<10	ppb
5/1/2014	9:45	2-Chlorophenol	<10	ppb
5/1/2014	9:45	2Methyl46dinitrophen	<10	ppb
5/1/2014	9:45	2-Nitrophenol	<10	ppb

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)

Sample Date	Sample Time	Parameter	Result	Units
5/1/2014	9:45	33-Dichlorobenzidine	<10	ppb
5/1/2014	9:45	4Bromophenphenether	<10	ppb
5/1/2014	9:45	4Chloro3methylphenol	<10	ppb
5/1/2014	9:45	4Chlorophenphenether	<10	ppb
5/1/2014	9:45	4-Nitrophenol	<10	ppb
5/1/2014	9:45	Acenaphthene	<10	ppb
5/1/2014	9:45	Acenaphthylene	<10	ppb
5/1/2014	9:45	Anthracene	<10	ppb
5/1/2014	9:45	Benzidine	<10	ppb
5/1/2014	9:45	Benzo(a)anthracene	<10	ppb
5/1/2014	9:45	Benzo(a)pyrene	<10	ppb
5/1/2014	9:45	Benzo(b)fluoranthene	<10	ppb
5/1/2014	9:45	Benzo(g,h,i)perylene	<10	ppb
5/1/2014	9:45	Benzo(k)fluoranthene	<10	ppb
5/1/2014	9:45	bis2chloroethoxymeth	<10	ppb
5/1/2014	9:45	bis2chloroethylether	<10	ppb
5/1/2014	9:45	bis2chloroisoproethe	<10	ppb
5/1/2014	9:45	bis2ethylhexylphthal	<10	ppb
5/1/2014	9:45	Bromomethane	<10	ppb
5/1/2014	9:45	Butylbenzylphthalate	<10	ppb
5/1/2014	9:45	Chloroethane	<10	ppb
5/1/2014	9:45	Chloromethane	<10	ppb
5/1/2014	9:45	Chromium	<10	ug/L
5/1/2014	9:45	Chrysene	<10	ppb
5/1/2014	9:45	Dibenzoanthracene	<10	ppb
5/1/2014	9:45	Diethylphthalate	<10	ppb
5/1/2014	9:45	Dimethylphthalate	<10	ppb
5/1/2014	9:45	di-n-butylphthalate	<10	ppb
5/1/2014	9:45	Di-n-octylphthalate	<10	ppb
5/1/2014	9:45	Fluoranthene	<10	ppb
5/1/2014	9:45	Fluorene	<10	ppb
5/1/2014	9:45	Hexachlorobenzene	<10	ppb
5/1/2014	9:45	Hexachlorobutadiene	<10	ppb
5/1/2014	9:45	Hexachloroethane	<10	ppb
5/1/2014	9:45	Hexacyclopentadien	<10	ppb
5/1/2014	9:45	Indeno(123-cd)pyrene	<10	ppb
5/1/2014	9:45	Isophorone	<10	ppb
5/1/2014	9:45	Naphthalene	<10	ppb
5/1/2014	9:45	Nickel	<10	ug/L
5/1/2014	9:45	Nitrobenzene	<10	ppb
5/1/2014	9:45	Nnitrosodimethylamin	<10	ppb
5/1/2014	9:45	Nnitrosodinpropylami	<10	ppb
5/1/2014	9:45	Nnitrosodiphenylamin	<10	ppb
5/1/2014	9:45	Pentachlorophenol	<10	ppb
5/1/2014	9:45	Phenanthrene	<10	ppb

Table 35: CSO Wet Weather Overflow North Diversion Structure NBC CSO 2A

**All samples are from CSO Wet weather Overflow at North Diversion Structure (NBC CSO # 2A)**

<b>Sample Date</b>	<b>Sample Time</b>	<b>Parameter</b>	<b>Result</b>	<b>Units</b>
5/1/2014	9:45	Phenol	<10	ppb
5/1/2014	9:45	Pyrene	<10	ppb
5/1/2014	9:45	2-Chloroethylvinylether	<2	ppb
5/1/2014	9:45	Cadmium	<2.5	ug/L
5/1/2014	9:45	Cyanide	<4.00	ppb
5/1/2014	9:45	Methylene Chloride	<5	ppb
5/1/2014	9:45	Fecal Coliform (3 tube) SM 9221E - Fecal	>24000	MPN/100 ml



CSO Wet Weather Overflow Vandewater St. NBC CSO 56A

All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	8:25	NO2-N EPA 353.2 - Nitrite	0.019	mg/L
8/13/2014	8:25	NO3NO2 EPA Method 353.2	0.309	mg/L
8/13/2014	8:25	Total_Phosphorus-P	0.48	mg/L
8/13/2014	8:25	Toluene	1	ppb
8/13/2014	8:25	NH3-N EPA 351.2 - Ammonia	1.23	ppm
8/13/2014	8:25	TKN - Copper Sulfate Digestion - TKN	2.98	mg N/L
8/13/2014	8:25	Fresh Water Total Nitrogen	3.29	ppm
8/13/2014	8:25	BOD SM 5210B	15.06	ppm
8/13/2014	8:25	Copper	16.84	ug/L
8/13/2014	8:25	Mercury EPA Method 245.7 - Mercury	21.4	ng/L
8/13/2014	8:25	Lead	26.1	ug/L
8/13/2014	8:25	TSS SM 5240D - TSS	56	ppm
8/13/2014	8:25	Zinc	76.15	ug/L
8/13/2014	8:25	Aluminum	536.8	ug/L
8/13/2014	8:25	Iron	779.3	ug/L
8/13/2014	8:25	1,1,1-Trichloroethane	<1	ppb
8/13/2014	8:25	1,1,2,2-Tetrachlorethane	<1	ppb
8/13/2014	8:25	1,1,2-Trichloroethane	<1	ppb
8/13/2014	8:25	1,1-Dichloroethane	<1	ppb
8/13/2014	8:25	1,1-Dichloroethene	<1	ppb
8/13/2014	8:25	1,2-dichlorobenzene	<1	ppb
8/13/2014	8:25	1,2-Dichloroethane	<1	ppb
8/13/2014	8:25	1,2-Dichloropropane	<1	ppb
8/13/2014	8:25	1,3-dichlorobenzene	<1	ppb
8/13/2014	8:25	1,4-dichlorobenzene	<1	ppb
8/13/2014	8:25	Benzene	<1	ppb
8/13/2014	8:25	Bromodichloromethane	<1	ppb
8/13/2014	8:25	Bromoform	<1	ppb
8/13/2014	8:25	Carbon Tetrachloride	<1	ppb
8/13/2014	8:25	Chlorobenzene	<1	ppb
8/13/2014	8:25	Chloroform	<1	ppb
8/13/2014	8:25	cis-1,3-Dichloropropene	<1	ppb
8/13/2014	8:25	Dibromochloromethane	<1	ppb
8/13/2014	8:25	Ethylbenzene	<1	ppb
8/13/2014	8:25	o- xylene	<1	ppb
8/13/2014	8:25	p&m xylene	<1	ppb
8/13/2014	8:25	Tetrachlorethene	<1	ppb
8/13/2014	8:25	Trans-1,2-Dichloroethene	<1	ppb
8/13/2014	8:25	Trans-1,3-Dichloropropene	<1	ppb
8/13/2014	8:25	Trichlorethene	<1	ppb
8/13/2014	8:25	Trichlorofluoromethane	<1	ppb
8/13/2014	8:25	Vinyl Chloride	<1	ppb
8/13/2014	8:25	1,2-Dichlorobenzene	<10	ppb
8/13/2014	8:25	1,3-Dichlorobenzene	<10	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

**All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)**

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	8:25	1,4-Dichlorobenzene	<10	ppb
8/13/2014	8:25	124-Trichlorobenzene	<10	ppb
8/13/2014	8:25	12-Diphenylhydrazine	<10	ppb
8/13/2014	8:25	2,4-Dichlorophenol	<10	ppb
8/13/2014	8:25	2,4-Dimethylphenol	<10	ppb
8/13/2014	8:25	2,4-Dinitrophenol	<10	ppb
8/13/2014	8:25	2,4-Dinitrotoluene	<10	ppb
8/13/2014	8:25	2,6-Dinitrotoluene	<10	ppb
8/13/2014	8:25	246-Trichlorophenol	<10	ppb
8/13/2014	8:25	2-Chloronaphthalene	<10	ppb
8/13/2014	8:25	2-Chlorophenol	<10	ppb
8/13/2014	8:25	2Methyl46dinitrophen	<10	ppb
8/13/2014	8:25	2-Nitrophenol	<10	ppb
8/13/2014	8:25	33-Dichlorobenzidine	<10	ppb
8/13/2014	8:25	4Bromophenphenether	<10	ppb
8/13/2014	8:25	4Chloro3methylphenol	<10	ppb
8/13/2014	8:25	4Chlorophenphenether	<10	ppb
8/13/2014	8:25	4-Nitrophenol	<10	ppb
8/13/2014	8:25	Acenaphthene	<10	ppb
8/13/2014	8:25	Acenaphthylene	<10	ppb
8/13/2014	8:25	Anthracene	<10	ppb
8/13/2014	8:25	Benzidine	<10	ppb
8/13/2014	8:25	Benzo(a)anthracene	<10	ppb
8/13/2014	8:25	Benzo(a)pyrene	<10	ppb
8/13/2014	8:25	Benzo(b)fluoranthene	<10	ppb
8/13/2014	8:25	Benzo(g,h,i)perylene	<10	ppb
8/13/2014	8:25	Benzo(k)fluoranthene	<10	ppb
8/13/2014	8:25	bis2chloroethoxymeth	<10	ppb
8/13/2014	8:25	bis2chloroethylether	<10	ppb
8/13/2014	8:25	bis2chloroisoproethe	<10	ppb
8/13/2014	8:25	bis2ethylhexylphthal	<10	ppb
8/13/2014	8:25	Bromomethane	<10	ppb
8/13/2014	8:25	Butylbenzylphthalate	<10	ppb
8/13/2014	8:25	Chloroethane	<10	ppb
8/13/2014	8:25	Chloromethane	<10	ppb
8/13/2014	8:25	Chromium	<10	ug/L
8/13/2014	8:25	Chrysene	<10	ppb
8/13/2014	8:25	Dibenzo(a)anthracene	<10	ppb
8/13/2014	8:25	Diethylphthalate	<10	ppb
8/13/2014	8:25	Dimethylphthalate	<10	ppb
8/13/2014	8:25	di-n-butylphthalate	<10	ppb
8/13/2014	8:25	Di-n-octylphthalate	<10	ppb
8/13/2014	8:25	Fluoranthene	<10	ppb
8/13/2014	8:25	Fluorene	<10	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

**All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)**

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	8:25	Hexachlorobenzene	<10	ppb
8/13/2014	8:25	Hexachlorobutadiene	<10	ppb
8/13/2014	8:25	Hexachloroethane	<10	ppb
8/13/2014	8:25	Hexacyclopentadien	<10	ppb
8/13/2014	8:25	Indeno(123-cd)pyrene	<10	ppb
8/13/2014	8:25	Isophorone	<10	ppb
8/13/2014	8:25	Naphthalene	<10	ppb
8/13/2014	8:25	Nickel	<10	ug/L
8/13/2014	8:25	Nitrobenzene	<10	ppb
8/13/2014	8:25	Nnitrosodimethylamin	<10	ppb
8/13/2014	8:25	Nnitrosodinpropylami	<10	ppb
8/13/2014	8:25	Nnitrosodiphenylamin	<10	ppb
8/13/2014	8:25	Pentachlorophenol	<10	ppb
8/13/2014	8:25	Phenanthrene	<10	ppb
8/13/2014	8:25	Phenol	<10	ppb
8/13/2014	8:25	Pyrene	<10	ppb
8/13/2014	8:25	2-Chloroethylvinylether	<2	ppb
8/13/2014	8:25	Cadmium	<2.5	ug/L
8/13/2014	8:25	Oil and Grease EPA Method 1664 (SIU)	<4.0	ppm
8/13/2014	8:25	Cyanide	<4.00	ppb
8/13/2014	8:25	Methylene Chloride	<5	ppb
8/13/2014	8:25	Fecal Coliform (3 tube) SM 9221E - Fecal	>240000	MPN/100 ml
8/13/2014	10:15	NH3-N EPA 351.2 - Ammonia	0.126	ppm
8/13/2014	10:15	Total_Phosphorus-P	0.27	mg/L
8/13/2014	10:15	NO3NO2 EPA Method 353.2	0.272	mg/L
8/13/2014	10:15	TKN - Copper Sulfate Digestion - TKN	1.16	mg N/L
8/13/2014	10:15	Fresh Water Total Nitrogen	1.43	ppm
8/13/2014	10:15	BOD SM 5210B	12.12	ppm
8/13/2014	10:15	Copper	15.64	ug/L
8/13/2014	10:15	Lead	18.41	ug/L
8/13/2014	10:15	Mercury EPA Method 245.7 - Mercury	19.1	ng/L
8/13/2014	10:15	Zinc	51.29	ug/L
8/13/2014	10:15	TSS SM 5240D - TSS	62	ppm
8/13/2014	10:15	Aluminum	982.9	ug/L
8/13/2014	10:15	Iron	2563	ug/L
8/13/2014	10:15	Fecal Coliform (3 tube) SM 9221E - Fecal	24000	MPN/100 ml
8/13/2014	10:15	NO2-N EPA 353.2 - Nitrite	<0.01	mg/L
8/13/2014	10:15	1,1,1-Trichloroethane	<1	ppb
8/13/2014	10:15	1,1,2,2-Tetrachlorethane	<1	ppb
8/13/2014	10:15	1,1,2-Trichloroethane	<1	ppb
8/13/2014	10:15	1,1-Dichloroethane	<1	ppb
8/13/2014	10:15	1,1-Dichloroethene	<1	ppb
8/13/2014	10:15	1,2-dichlorobenzene	<1	ppb
8/13/2014	10:15	1,2-Dichloroethane	<1	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

## All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	10:15	1,2-Dichloropropane	<1	ppb
8/13/2014	10:15	1,3-dichlorobenzene	<1	ppb
8/13/2014	10:15	1,4-dichlorobenzene	<1	ppb
8/13/2014	10:15	Benzene	<1	ppb
8/13/2014	10:15	Bromodichloromethane	<1	ppb
8/13/2014	10:15	Bromoform	<1	ppb
8/13/2014	10:15	Carbon Tetrachloride	<1	ppb
8/13/2014	10:15	Chlorobenzene	<1	ppb
8/13/2014	10:15	Chloroform	<1	ppb
8/13/2014	10:15	cis-1,3-Dichloropropene	<1	ppb
8/13/2014	10:15	Dibromochloromethane	<1	ppb
8/13/2014	10:15	Ethylbenzene	<1	ppb
8/13/2014	10:15	o- xylene	<1	ppb
8/13/2014	10:15	p&m xylene	<1	ppb
8/13/2014	10:15	Tetrachlorethene	<1	ppb
8/13/2014	10:15	Toluene	<1	ppb
8/13/2014	10:15	Trans-1,2-Dichloroethene	<1	ppb
8/13/2014	10:15	Trans-1,3-Dichloropropene	<1	ppb
8/13/2014	10:15	Trichlorethene	<1	ppb
8/13/2014	10:15	Trichlorofluoromethane	<1	ppb
8/13/2014	10:15	Vinyl Chloride	<1	ppb
8/13/2014	10:15	1,2-Dichlorobenzene	<10	ppb
8/13/2014	10:15	1,3-Dichlorobenzene	<10	ppb
8/13/2014	10:15	1,4-Dichlorobenzene	<10	ppb
8/13/2014	10:15	124-Trichlorobenzene	<10	ppb
8/13/2014	10:15	12-Diphenylhydrazine	<10	ppb
8/13/2014	10:15	2,4-Dichlorophenol	<10	ppb
8/13/2014	10:15	2,4-Dimethylphenol	<10	ppb
8/13/2014	10:15	2,4-Dinitrophenol	<10	ppb
8/13/2014	10:15	2,4-Dinitrotoluene	<10	ppb
8/13/2014	10:15	2,6-Dinitrotoluene	<10	ppb
8/13/2014	10:15	246-Trichlorophenol	<10	ppb
8/13/2014	10:15	2-Chloronaphthalene	<10	ppb
8/13/2014	10:15	2-Chlorophenol	<10	ppb
8/13/2014	10:15	2Methyl46dinitrophen	<10	ppb
8/13/2014	10:15	2-Nitrophenol	<10	ppb
8/13/2014	10:15	33-Dichlorobenzidine	<10	ppb
8/13/2014	10:15	4Bromophenphenether	<10	ppb
8/13/2014	10:15	4Chloro3methylphenol	<10	ppb
8/13/2014	10:15	4Chlorophenphenether	<10	ppb
8/13/2014	10:15	4-Nitrophenol	<10	ppb
8/13/2014	10:15	Acenaphthene	<10	ppb
8/13/2014	10:15	Acenaphthylene	<10	ppb
8/13/2014	10:15	Anthracene	<10	ppb

**All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)**

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	10:15	Benzidine	<10	ppb
8/13/2014	10:15	Benzo(a)anthracene	<10	ppb
8/13/2014	10:15	Benzo(a)pyrene	<10	ppb
8/13/2014	10:15	Benzo(b)fluoranthene	<10	ppb
8/13/2014	10:15	Benzo(g,h,i)perylene	<10	ppb
8/13/2014	10:15	Benzo(k)fluoranthene	<10	ppb
8/13/2014	10:15	bis2chloroethoxymeth	<10	ppb
8/13/2014	10:15	bis2chloroethylether	<10	ppb
8/13/2014	10:15	bis2chloroisoproethe	<10	ppb
8/13/2014	10:15	bis2ethylhexylphthal	<10	ppb
8/13/2014	10:15	Bromomethane	<10	ppb
8/13/2014	10:15	Butylbenzylphthalate	<10	ppb
8/13/2014	10:15	Chloroethane	<10	ppb
8/13/2014	10:15	Chloromethane	<10	ppb
8/13/2014	10:15	Chromium	<10	ug/L
8/13/2014	10:15	Chrysene	<10	ppb
8/13/2014	10:15	Dibenzoahanthracene	<10	ppb
8/13/2014	10:15	Diethylphthalate	<10	ppb
8/13/2014	10:15	Dimethylphthalate	<10	ppb
8/13/2014	10:15	di-n-butylphthalate	<10	ppb
8/13/2014	10:15	Di-n-octylphthalate	<10	ppb
8/13/2014	10:15	Fluoranthene	<10	ppb
8/13/2014	10:15	Fluorene	<10	ppb
8/13/2014	10:15	Hexachlorobenzene	<10	ppb
8/13/2014	10:15	Hexachlorobutadiene	<10	ppb
8/13/2014	10:15	Hexachloroethane	<10	ppb
8/13/2014	10:15	Hexaclcyclopentadien	<10	ppb
8/13/2014	10:15	Indeno(123-cd)pyrene	<10	ppb
8/13/2014	10:15	Isophorone	<10	ppb
8/13/2014	10:15	Naphthalene	<10	ppb
8/13/2014	10:15	Nickel	<10	ug/L
8/13/2014	10:15	Nitrobenzene	<10	ppb
8/13/2014	10:15	Nnitrosodimethylamin	<10	ppb
8/13/2014	10:15	Nnitrosodinpropylami	<10	ppb
8/13/2014	10:15	Nnitrosodiphenylamin	<10	ppb
8/13/2014	10:15	Pentachlorophenol	<10	ppb
8/13/2014	10:15	Phenanthrene	<10	ppb
8/13/2014	10:15	Phenol	<10	ppb
8/13/2014	10:15	Pyrene	<10	ppb
8/13/2014	10:15	2-Chloroethylvinylether	<2	ppb
8/13/2014	10:15	Cadmium	<2.5	ug/L
8/13/2014	10:15	Oil and Grease EPA Method 1664 (SIU)	<4.0	ppm
8/13/2014	10:15	Cyanide	<4.00	ppb
8/13/2014	10:15	Methylene Chloride	<5	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

CSO Wet Weather Overflow Vandewater St. NBC CSO 56A

All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	14:40	NO2-N EPA 353.2 - Nitrite	0.0131	mg/L
8/13/2014	14:40	NO3NO2 EPA Method 353.2	0.136	mg/L
8/13/2014	14:40	Total_Phosphorus-P	0.216	mg/L
8/13/2014	14:40	NH3-N EPA 351.2 - Ammonia	0.505	ppm
8/13/2014	14:40	TKN - Copper Sulfate Digestion - TKN	1.55	mg N/L
8/13/2014	14:40	Fresh Water Total Nitrogen	1.69	ppm
8/13/2014	14:40	Oil and Grease EPA Method 1664 (SIU)	4.5	ppm
8/13/2014	14:40	Cyanide	5.11	ppb
8/13/2014	14:40	Mercury EPA Method 245.7 - Mercury	7.33	ng/L
8/13/2014	14:40	Copper	12.92	ug/L
8/13/2014	14:40	BOD SM 5210B	19.92	ppm
8/13/2014	14:40	TSS SM 5240D - TSS	20	ppm
8/13/2014	14:40	Zinc	40.14	ug/L
8/13/2014	14:40	Aluminum	235.9	ug/L
8/13/2014	14:40	Iron	348.5	ug/L
8/13/2014	14:40	Fecal Coliform (3 tube) SM 9221E	46000	MPN/100 ml
8/13/2014	14:40	1,1,1-Trichloroethane	<1	ppb
8/13/2014	14:40	1,1,2,2-Tetrachlorethane	<1	ppb
8/13/2014	14:40	1,1,2-Trichloroethane	<1	ppb
8/13/2014	14:40	1,1-Dichloroethane	<1	ppb
8/13/2014	14:40	1,1-Dichloroethene	<1	ppb
8/13/2014	14:40	1,2-dichlorobenzene	<1	ppb
8/13/2014	14:40	1,2-Dichloroethane	<1	ppb
8/13/2014	14:40	1,2-Dichloropropane	<1	ppb
8/13/2014	14:40	1,3-dichlorobenzene	<1	ppb
8/13/2014	14:40	1,4-dichlorobenzene	<1	ppb
8/13/2014	14:40	Benzene	<1	ppb
8/13/2014	14:40	Bromodichloromethane	<1	ppb
8/13/2014	14:40	Bromoform	<1	ppb
8/13/2014	14:40	Carbon Tetrachloride	<1	ppb
8/13/2014	14:40	Chlorobenzene	<1	ppb
8/13/2014	14:40	Chloroform	<1	ppb
8/13/2014	14:40	cis-1,3-Dichloropropene	<1	ppb
8/13/2014	14:40	Dibromochloromethane	<1	ppb
8/13/2014	14:40	Ethylbenzene	<1	ppb
8/13/2014	14:40	o- xylene	<1	ppb
8/13/2014	14:40	p&m xylene	<1	ppb
8/13/2014	14:40	Tetrachlorethene	<1	ppb
8/13/2014	14:40	Toluene	<1	ppb
8/13/2014	14:40	Trans-1,2-Dichloroethene	<1	ppb
8/13/2014	14:40	Trans-1,3-Dichloropropene	<1	ppb
8/13/2014	14:40	Trichlorethene	<1	ppb
8/13/2014	14:40	Trichlorofluoromethane	<1	ppb
8/13/2014	14:40	Vinyl Chloride	<1	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

## All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	14:40	1,2-Dichlorobenzene	<10	ppb
8/13/2014	14:40	1,3-Dichlorobenzene	<10	ppb
8/13/2014	14:40	1,4-Dichlorobenzene	<10	ppb
8/13/2014	14:40	124-Trichlorobenzene	<10	ppb
8/13/2014	14:40	12-Diphenylhydrazine	<10	ppb
8/13/2014	14:40	2,4-Dichlorophenol	<10	ppb
8/13/2014	14:40	2,4-Dimethylphenol	<10	ppb
8/13/2014	14:40	2,4-Dinitrophenol	<10	ppb
8/13/2014	14:40	2,4-Dinitrotoluene	<10	ppb
8/13/2014	14:40	2,6-Dinitrotoluene	<10	ppb
8/13/2014	14:40	246-Trichlorophenol	<10	ppb
8/13/2014	14:40	2-Chloronaphthalene	<10	ppb
8/13/2014	14:40	2-Chlorophenol	<10	ppb
8/13/2014	14:40	2Methyl46dinitrophen	<10	ppb
8/13/2014	14:40	2-Nitrophenol	<10	ppb
8/13/2014	14:40	33-Dichlorobenzidine	<10	ppb
8/13/2014	14:40	4Bromophenphenether	<10	ppb
8/13/2014	14:40	4Chloro3methylphenol	<10	ppb
8/13/2014	14:40	4Chlorophenphenether	<10	ppb
8/13/2014	14:40	4-Nitrophenol	<10	ppb
8/13/2014	14:40	Acenaphthene	<10	ppb
8/13/2014	14:40	Acenaphthylene	<10	ppb
8/13/2014	14:40	Anthracene	<10	ppb
8/13/2014	14:40	Benzidine	<10	ppb
8/13/2014	14:40	Benzo(a)anthracene	<10	ppb
8/13/2014	14:40	Benzo(a)pyrene	<10	ppb
8/13/2014	14:40	Benzo(b)fluoranthene	<10	ppb
8/13/2014	14:40	Benzo(g,h,i)perylene	<10	ppb
8/13/2014	14:40	Benzo(k)fluoranthene	<10	ppb
8/13/2014	14:40	bis2chloroethoxymeth	<10	ppb
8/13/2014	14:40	bis2chloroethylether	<10	ppb
8/13/2014	14:40	bis2chloroisoproethe	<10	ppb
8/13/2014	14:40	bis2ethylhexylphthal	<10	ppb
8/13/2014	14:40	Bromomethane	<10	ppb
8/13/2014	14:40	Butylbenzylphthalate	<10	ppb
8/13/2014	14:40	Chloroethane	<10	ppb
8/13/2014	14:40	Chloromethane	<10	ppb
8/13/2014	14:40	Chromium	<10	ug/L
8/13/2014	14:40	Chrysene	<10	ppb
8/13/2014	14:40	Dibenzo(a)anthracene	<10	ppb
8/13/2014	14:40	Diethylphthalate	<10	ppb
8/13/2014	14:40	Dimethylphthalate	<10	ppb
8/13/2014	14:40	di-n-butylphthalate	<10	ppb
8/13/2014	14:40	Di-n-octylphthalate	<10	ppb

Table 36: CSO Wet Weather Overflow Dorrance Street NBC CSO 09

**All samples are from CSO Wet weather Overflow at Vandewater St. (NBC CSO #56A)**

Sample Date	Sample Time	Parameter	Result	Units
8/13/2014	14:40	Fluoranthene	<10	ppb
8/13/2014	14:40	Fluorene	<10	ppb
8/13/2014	14:40	Hexachlorobenzene	<10	ppb
8/13/2014	14:40	Hexachlorobutadiene	<10	ppb
8/13/2014	14:40	Hexachloroethane	<10	ppb
8/13/2014	14:40	Hexacyclopentadien	<10	ppb
8/13/2014	14:40	Indeno(123-cd)pyrene	<10	ppb
8/13/2014	14:40	Isophorone	<10	ppb
8/13/2014	14:40	Lead	<10	ug/L
8/13/2014	14:40	Naphthalene	<10	ppb
8/13/2014	14:40	Nickel	<10	ug/L
8/13/2014	14:40	Nitrobenzene	<10	ppb
8/13/2014	14:40	Nnitrosodimethylamin	<10	ppb
8/13/2014	14:40	Nnitrosodinpropylami	<10	ppb
8/13/2014	14:40	Nnitrosodiphenylamin	<10	ppb
8/13/2014	14:40	Pentachlorophenol	<10	ppb
8/13/2014	14:40	Phenanthrene	<10	ppb
8/13/2014	14:40	Phenol	<10	ppb
8/13/2014	14:40	Pyrene	<10	ppb
8/13/2014	14:40	2-Chloroethylvinylether	<2	ppb
8/13/2014	14:40	Cadmium	<2.5	ug/L
8/13/2014	14:40	Methylene Chloride	<5	ppb



**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	8:00	NO2-N EPA 353.2 - Nitrite	0.0199	mg/L
11/17/2014	8:00	NO3NO2 EPA Method 353.2	0.203	mg/L
11/17/2014	8:00	Total_Phosphorus-P	0.754	mg/L
11/17/2014	8:00	NH3-N EPA 351.2 - Ammonia	1.49	ppm
11/17/2014	8:00	TKN - Copper Sulfate Digestion - TKN	5.15	mg N/L
11/17/2014	8:00	Fresh Water Total Nitrogen	5.353	ppm
11/17/2014	8:00	Lead	12.61	ug/L
11/17/2014	8:00	Mercury EPA Method 245.7 - Mercury	18.8	ng/L
11/17/2014	8:00	Copper	19.03	ug/L
11/17/2014	8:00	BOD SM 5210B	27.93	ppm
11/17/2014	8:00	TSS SM 5240D - TSS	38	ppm
11/17/2014	8:00	Zinc	61.52	ug/L
11/17/2014	8:00	Aluminum	319.5	ug/L
11/17/2014	8:00	Iron	536.4	ug/L
11/17/2014	8:00	1,1,1-Trichloroethane	<1	ppb
11/17/2014	8:00	1,1,2,2-Tetrachlorethane	<1	ppb
11/17/2014	8:00	1,1,2-Trichloroethane	<1	ppb
11/17/2014	8:00	1,1-Dichloroethane	<1	ppb
11/17/2014	8:00	1,1-Dichloroethene	<1	ppb
11/17/2014	8:00	1,2-dichlorobenzene	<1	ppb
11/17/2014	8:00	1,2-Dichloroethane	<1	ppb
11/17/2014	8:00	1,2-Dichloropropane	<1	ppb
11/17/2014	8:00	1,3-dichlorobenzene	<1	ppb
11/17/2014	8:00	1,4-dichlorobenzene	<1	ppb
11/17/2014	8:00	Benzene	<1	ppb
11/17/2014	8:00	Bromodichloromethane	<1	ppb
11/17/2014	8:00	Bromoform	<1	ppb
11/17/2014	8:00	Carbon Tetrachloride	<1	ppb
11/17/2014	8:00	Chlorobenzene	<1	ppb
11/17/2014	8:00	Chloroform	<1	ppb
11/17/2014	8:00	cis-1,3-Dichloropropene	<1	ppb
11/17/2014	8:00	Dibromochloromethane	<1	ppb
11/17/2014	8:00	Ethylbenzene	<1	ppb
11/17/2014	8:00	o- xylene	<1	ppb
11/17/2014	8:00	p&m xylene	<1	ppb
11/17/2014	8:00	Tetrachlorethene	<1	ppb
11/17/2014	8:00	Toluene	<1	ppb
11/17/2014	8:00	Trans-1,2-Dichloroethene	<1	ppb
11/17/2014	8:00	Trans-1,3-Dichloropropene	<1	ppb
11/17/2014	8:00	Trichlorethene	<1	ppb
11/17/2014	8:00	Trichlorofluoromethane	<1	ppb
11/17/2014	8:00	Vinyl Chloride	<1	ppb
11/17/2014	8:00	Bromomethane	<10	ppb
11/17/2014	8:00	Chloroethane	<10	ppb

**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	8:00	Chloromethane	<10	ppb
11/17/2014	8:00	Chromium	<10	ug/L
11/17/2014	8:00	Nickel	<10	ug/L
11/17/2014	8:00	2-Chloroethylvinylether	<2	ppb
11/17/2014	8:00	Cadmium	<2.5	ug/L
11/17/2014	8:00	1,2-Dichlorobenzene	<25	ppb
11/17/2014	8:00	1,3-Dichlorobenzene	<25	ppb
11/17/2014	8:00	1,4-Dichlorobenzene	<25	ppb
11/17/2014	8:00	124-Trichlorobenzene	<25	ppb
11/17/2014	8:00	12-Diphenylhydrazine	<25	ppb
11/17/2014	8:00	2,4-Dichlorophenol	<25	ppb
11/17/2014	8:00	2,4-Dimethylphenol	<25	ppb
11/17/2014	8:00	2,4-Dinitrophenol	<25	ppb
11/17/2014	8:00	2,4-Dinitrotoluene	<25	ppb
11/17/2014	8:00	2,6-Dinitrotoluene	<25	ppb
11/17/2014	8:00	246-Trichlorophenol	<25	ppb
11/17/2014	8:00	2-Chloronaphthalene	<25	ppb
11/17/2014	8:00	2-Chlorophenol	<25	ppb
11/17/2014	8:00	2Methyl46dinitrophen	<25	ppb
11/17/2014	8:00	2-Nitrophenol	<25	ppb
11/17/2014	8:00	33-Dichlorobenzidine	<25	ppb
11/17/2014	8:00	4Bromophenphenether	<25	ppb
11/17/2014	8:00	4Chloro3methylphenol	<25	ppb
11/17/2014	8:00	4Chlorophenphenether	<25	ppb
11/17/2014	8:00	4-Nitrophenol	<25	ppb
11/17/2014	8:00	Acenaphthene	<25	ppb
11/17/2014	8:00	Acenaphthylene	<25	ppb
11/17/2014	8:00	Anthracene	<25	ppb
11/17/2014	8:00	Benzdine	<25	ppb
11/17/2014	8:00	Benzo(a)anthracene	<25	ppb
11/17/2014	8:00	Benzo(a)pyrene	<25	ppb
11/17/2014	8:00	Benzo(b)fluoranthene	<25	ppb
11/17/2014	8:00	Benzo(g,h,i)perylene	<25	ppb
11/17/2014	8:00	Benzo(k)fluoranthene	<25	ppb
11/17/2014	8:00	bis2chloroethoxymeth	<25	ppb
11/17/2014	8:00	bis2chloroethylether	<25	ppb
11/17/2014	8:00	bis2chloroisoproethe	<25	ppb
11/17/2014	8:00	bis2ethylhexylphthal	<25	ppb
11/17/2014	8:00	Butylbenzylphthalate	<25	ppb
11/17/2014	8:00	Chrysene	<25	ppb
11/17/2014	8:00	Dibenzoanthracene	<25	ppb
11/17/2014	8:00	Diethylphthalate	<25	ppb
11/17/2014	8:00	Dimethylphthalate	<25	ppb
11/17/2014	8:00	di-n-butylphthalate	<25	ppb

**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	8:00	Di-n-octylphthalate	<25	ppb
11/17/2014	8:00	Fluoranthene	<25	ppb
11/17/2014	8:00	Fluorene	<25	ppb
11/17/2014	8:00	Hexachlorobenzene	<25	ppb
11/17/2014	8:00	Hexachlorobutadiene	<25	ppb
11/17/2014	8:00	Hexachloroethane	<25	ppb
11/17/2014	8:00	Hexacyclopentadien	<25	ppb
11/17/2014	8:00	Indeno(123-cd)pyrene	<25	ppb
11/17/2014	8:00	Isophorone	<25	ppb
11/17/2014	8:00	Naphthalene	<25	ppb
11/17/2014	8:00	Nitrobenzene	<25	ppb
11/17/2014	8:00	Nnitrosodimethylamin	<25	ppb
11/17/2014	8:00	Nnitrosodinpropylami	<25	ppb
11/17/2014	8:00	Nnitrosodiphenylamin	<25	ppb
11/17/2014	8:00	Pentachlorophenol	<25	ppb
11/17/2014	8:00	Phenanthrene	<25	ppb
11/17/2014	8:00	Phenol	<25	ppb
11/17/2014	8:00	Pyrene	<25	ppb
11/17/2014	8:00	Oil and Grease EPA Method 1664 (SIU)	<4.0	ppm
11/17/2014	8:00	Cyanide	<4.00	ppb
11/17/2014	8:00	Methylene Chloride	<5	ppb
11/17/2014	8:00	Fecal Coliform (3 tube) SM 9221E - Fecal	>240000	MPN/100 ml
11/17/2014	10:30	NO2-N EPA 353.2 - Nitrite	0.0117	mg/L
11/17/2014	10:30	NO3NO2 EPA Method 353.2	0.13	mg/L
11/17/2014	10:30	Total_Phosphorus-P	0.361	mg/L
11/17/2014	10:30	NH3-N EPA 351.2 - Ammonia	0.434	ppm
11/17/2014	10:30	TKN - Copper Sulfate Digestion - TKN	2.27	mg N/L
11/17/2014	10:30	Fresh Water Total Nitrogen	2.4	ppm
11/17/2014	10:30	Mercury EPA Method 245.7 - Mercury	9.89	ng/L
11/17/2014	10:30	TSS SM 5240D - TSS	18	ppm
11/17/2014	10:30	BOD SM 5210B	18.24	ppm
11/17/2014	10:30	Zinc	36.52	ug/L
11/17/2014	10:30	Aluminum	254	ug/L
11/17/2014	10:30	Iron	365	ug/L
11/17/2014	10:30	1,1,1-Trichloroethane	<1	ppb
11/17/2014	10:30	1,1,2,2-Tetrachlorethane	<1	ppb
11/17/2014	10:30	1,1,2-Trichloroethane	<1	ppb
11/17/2014	10:30	1,1-Dichloroethane	<1	ppb
11/17/2014	10:30	1,1-Dichloroethene	<1	ppb
11/17/2014	10:30	1,2-dichlorobenzene	<1	ppb
11/17/2014	10:30	1,2-Dichloroethane	<1	ppb
11/17/2014	10:30	1,2-Dichloropropane	<1	ppb
11/17/2014	10:30	1,3-dichlorobenzene	<1	ppb
11/17/2014	10:30	1,4-dichlorobenzene	<1	ppb

**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	10:30	Benzene	<1	ppb
11/17/2014	10:30	Bromodichloromethane	<1	ppb
11/17/2014	10:30	Bromoform	<1	ppb
11/17/2014	10:30	Carbon Tetrachloride	<1	ppb
11/17/2014	10:30	Chlorobenzene	<1	ppb
11/17/2014	10:30	Chloroform	<1	ppb
11/17/2014	10:30	cis-1,3-Dichloropropene	<1	ppb
11/17/2014	10:30	Dibromochloromethane	<1	ppb
11/17/2014	10:30	Ethylbenzene	<1	ppb
11/17/2014	10:30	o- xylene	<1	ppb
11/17/2014	10:30	p&m xylene	<1	ppb
11/17/2014	10:30	Tetrachlorethene	<1	ppb
11/17/2014	10:30	Toluene	<1	ppb
11/17/2014	10:30	Trans-1,2-Dichloroethene	<1	ppb
11/17/2014	10:30	Trans-1,3-Dichloropropene	<1	ppb
11/17/2014	10:30	Trichlorethene	<1	ppb
11/17/2014	10:30	Trichlorofluoromethane	<1	ppb
11/17/2014	10:30	Vinyl Chloride	<1	ppb
11/17/2014	10:30	Bromomethane	<10	ppb
11/17/2014	10:30	Chloroethane	<10	ppb
11/17/2014	10:30	Chloromethane	<10	ppb
11/17/2014	10:30	Chromium	<10	ug/L
11/17/2014	10:30	Copper	<10	ug/L
11/17/2014	10:30	Lead	<10	ug/L
11/17/2014	10:30	Nickel	<10	ug/L
11/17/2014	10:30	2-Chloroethylvinylether	<2	ppb
11/17/2014	10:30	Cadmium	<2.5	ug/L
11/17/2014	10:30	1,2-Dichlorobenzene	<25	ppb
11/17/2014	10:30	1,3-Dichlorobenzene	<25	ppb
11/17/2014	10:30	1,4-Dichlorobenzene	<25	ppb
11/17/2014	10:30	124-Trichlorobenzene	<25	ppb
11/17/2014	10:30	12-Diphenylhydrazine	<25	ppb
11/17/2014	10:30	2,4-Dichlorophenol	<25	ppb
11/17/2014	10:30	2,4-Dimethylphenol	<25	ppb
11/17/2014	10:30	2,4-Dinitrophenol	<25	ppb
11/17/2014	10:30	2,4-Dinitrotoluene	<25	ppb
11/17/2014	10:30	2,6-Dinitrotoluene	<25	ppb
11/17/2014	10:30	246-Trichlorophenol	<25	ppb
11/17/2014	10:30	2-Chloronaphthalene	<25	ppb
11/17/2014	10:30	2-Chlorophenol	<25	ppb
11/17/2014	10:30	2Methyl46dinitrophen	<25	ppb
11/17/2014	10:30	2-Nitrophenol	<25	ppb
11/17/2014	10:30	33-Dichlorobenzidine	<25	ppb
11/17/2014	10:30	4Bromophenphenether	<25	ppb

## All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	10:30	4Chloro3methylphenol	<25	ppb
11/17/2014	10:30	4Chlorophenphenether	<25	ppb
11/17/2014	10:30	4-Nitrophenol	<25	ppb
11/17/2014	10:30	Acenaphthene	<25	ppb
11/17/2014	10:30	Acenaphthylene	<25	ppb
11/17/2014	10:30	Anthracene	<25	ppb
11/17/2014	10:30	Benzdine	<25	ppb
11/17/2014	10:30	Benzo(a)anthracene	<25	ppb
11/17/2014	10:30	Benzo(a)pyrene	<25	ppb
11/17/2014	10:30	Benzo(b)fluoranthene	<25	ppb
11/17/2014	10:30	Benzo(g,h,i)perylene	<25	ppb
11/17/2014	10:30	Benzo(k)fluoranthene	<25	ppb
11/17/2014	10:30	bis2chloroethoxymeth	<25	ppb
11/17/2014	10:30	bis2chloroethylether	<25	ppb
11/17/2014	10:30	bis2chloroisoproethe	<25	ppb
11/17/2014	10:30	bis2ethylhexylphthal	<25	ppb
11/17/2014	10:30	Butylbenzylphthalate	<25	ppb
11/17/2014	10:30	Chrysene	<25	ppb
11/17/2014	10:30	Dibenzoanthracene	<25	ppb
11/17/2014	10:30	Diethylphthalate	<25	ppb
11/17/2014	10:30	Dimethylphthalate	<25	ppb
11/17/2014	10:30	di-n-butylphthalate	<25	ppb
11/17/2014	10:30	Di-n-octylphthalate	<25	ppb
11/17/2014	10:30	Fluoranthene	<25	ppb
11/17/2014	10:30	Fluorene	<25	ppb
11/17/2014	10:30	Hexachlorobenzene	<25	ppb
11/17/2014	10:30	Hexachlorobutadiene	<25	ppb
11/17/2014	10:30	Hexachloroethane	<25	ppb
11/17/2014	10:30	Hexacyclopentadien	<25	ppb
11/17/2014	10:30	Indeno(123-cd)pyrene	<25	ppb
11/17/2014	10:30	Isophorone	<25	ppb
11/17/2014	10:30	Naphthalene	<25	ppb
11/17/2014	10:30	Nitrobenzene	<25	ppb
11/17/2014	10:30	Nnitrosodimethylamin	<25	ppb
11/17/2014	10:30	Nnitrosodinpropylami	<25	ppb
11/17/2014	10:30	Nnitrosodiphenylamin	<25	ppb
11/17/2014	10:30	Pentachlorophenol	<25	ppb
11/17/2014	10:30	Phenanthrene	<25	ppb
11/17/2014	10:30	Phenol	<25	ppb
11/17/2014	10:30	Pyrene	<25	ppb
11/17/2014	10:30	Oil and Grease EPA Method 1664 (SIU)	<4.0	ppm
11/17/2014	10:30	Cyanide	<4.00	ppb
11/17/2014	10:30	Methylene Chloride	<5	ppb
11/17/2014	10:30	Fecal Coliform (3 tube) SM 9221E - Fecal	>240000	MPN/100 ml

**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	11:00	NO2-N EPA 353.2 - Nitrite	0.018	mg/L
11/17/2014	11:00	NO3NO2 EPA Method 353.2	0.131	mg/L
11/17/2014	11:00	Total_Phosphorus-P	0.514	mg/L
11/17/2014	11:00	NH3-N EPA 351.2 - Ammonia	0.63	ppm
11/17/2014	11:00	Toluene	1	ppb
11/17/2014	11:00	TKN - Copper Sulfate Digestion - TKN	2.46	mg N/L
11/17/2014	11:00	Fresh Water Total Nitrogen	2.591	ppm
11/17/2014	11:00	Mercury EPA Method 245.7 - Mercury	6.63	ng/L
11/17/2014	11:00	TSS SM 5240D - TSS	10	ppm
11/17/2014	11:00	BOD SM 5210B	23.28	ppm
11/17/2014	11:00	Zinc	70.19	ug/L
11/17/2014	11:00	Aluminum	194.6	ug/L
11/17/2014	11:00	Iron	247.7	ug/L
11/17/2014	11:00	1,1,1-Trichloroethane	<1	ppb
11/17/2014	11:00	1,1,2,2-Tetrachlorethane	<1	ppb
11/17/2014	11:00	1,1,2-Trichloroethane	<1	ppb
11/17/2014	11:00	1,1-Dichloroethane	<1	ppb
11/17/2014	11:00	1,1-Dichloroethene	<1	ppb
11/17/2014	11:00	1,2-dichlorobenzene	<1	ppb
11/17/2014	11:00	1,2-Dichloroethane	<1	ppb
11/17/2014	11:00	1,2-Dichloropropane	<1	ppb
11/17/2014	11:00	1,3-dichlorobenzene	<1	ppb
11/17/2014	11:00	1,4-dichlorobenzene	<1	ppb
11/17/2014	11:00	Benzene	<1	ppb
11/17/2014	11:00	Bromodichloromethane	<1	ppb
11/17/2014	11:00	Bromoform	<1	ppb
11/17/2014	11:00	Carbon Tetrachloride	<1	ppb
11/17/2014	11:00	Chlorobenzene	<1	ppb
11/17/2014	11:00	Chloroform	<1	ppb
11/17/2014	11:00	cis-1,3-Dichloropropene	<1	ppb
11/17/2014	11:00	Dibromochloromethane	<1	ppb
11/17/2014	11:00	Ethylbenzene	<1	ppb
11/17/2014	11:00	o- xylene	<1	ppb
11/17/2014	11:00	p&m xylene	<1	ppb
11/17/2014	11:00	Tetrachlorethene	<1	ppb
11/17/2014	11:00	Trans-1,2-Dichloroethene	<1	ppb
11/17/2014	11:00	Trans-1,3-Dichloropropene	<1	ppb
11/17/2014	11:00	Trichlorethene	<1	ppb
11/17/2014	11:00	Trichlorofluoromethane	<1	ppb
11/17/2014	11:00	Vinyl Chloride	<1	ppb
11/17/2014	11:00	Bromomethane	<10	ppb
11/17/2014	11:00	Chloroethane	<10	ppb
11/17/2014	11:00	Chloromethane	<10	ppb
11/17/2014	11:00	Chromium	<10	ug/L

## All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	11:00	Copper	<10	ug/L
11/17/2014	11:00	Lead	<10	ug/L
11/17/2014	11:00	Nickel	<10	ug/L
11/17/2014	11:00	2-Chloroethylvinylether	<2	ppb
11/17/2014	11:00	Cadmium	<2.5	ug/L
11/17/2014	11:00	1,2-Dichlorobenzene	<25	ppb
11/17/2014	11:00	1,3-Dichlorobenzene	<25	ppb
11/17/2014	11:00	1,4-Dichlorobenzene	<25	ppb
11/17/2014	11:00	124-Trichlorobenzene	<25	ppb
11/17/2014	11:00	12-Diphenylhydrazine	<25	ppb
11/17/2014	11:00	2,4-Dichlorophenol	<25	ppb
11/17/2014	11:00	2,4-Dimethylphenol	<25	ppb
11/17/2014	11:00	2,4-Dinitrophenol	<25	ppb
11/17/2014	11:00	2,4-Dinitrotoluene	<25	ppb
11/17/2014	11:00	2,6-Dinitrotoluene	<25	ppb
11/17/2014	11:00	246-Trichlorophenol	<25	ppb
11/17/2014	11:00	2-Chloronaphthalene	<25	ppb
11/17/2014	11:00	2-Chlorophenol	<25	ppb
11/17/2014	11:00	2Methyl46dinitrophen	<25	ppb
11/17/2014	11:00	2-Nitrophenol	<25	ppb
11/17/2014	11:00	33-Dichlorobenzidine	<25	ppb
11/17/2014	11:00	4Bromophenphenether	<25	ppb
11/17/2014	11:00	4Chloro3methylphenol	<25	ppb
11/17/2014	11:00	4Chlorophenphenether	<25	ppb
11/17/2014	11:00	4-Nitrophenol	<25	ppb
11/17/2014	11:00	Acenaphthene	<25	ppb
11/17/2014	11:00	Acenaphthylene	<25	ppb
11/17/2014	11:00	Anthracene	<25	ppb
11/17/2014	11:00	Benzdine	<25	ppb
11/17/2014	11:00	Benzo(a)anthracene	<25	ppb
11/17/2014	11:00	Benzo(a)pyrene	<25	ppb
11/17/2014	11:00	Benzo(b)fluoranthene	<25	ppb
11/17/2014	11:00	Benzo(g,h,i)perylene	<25	ppb
11/17/2014	11:00	Benzo(k)fluoranthene	<25	ppb
11/17/2014	11:00	bis2chloroethoxymeth	<25	ppb
11/17/2014	11:00	bis2chloroethylether	<25	ppb
11/17/2014	11:00	bis2chloroisoproethe	<25	ppb
11/17/2014	11:00	bis2ethylhexylphthal	<25	ppb
11/17/2014	11:00	Butylbenzylphthalate	<25	ppb
11/17/2014	11:00	Chrysene	<25	ppb
11/17/2014	11:00	Dibenzoanthracene	<25	ppb
11/17/2014	11:00	Diethylphthalate	<25	ppb
11/17/2014	11:00	Dimethylphthalate	<25	ppb
11/17/2014	11:00	di-n-butylphthalate	<25	ppb

**All samples are from CSO Wet weather Overflow at Moshassuck St. (NBC CSO # 220)**

Sample Date	Sample Time	Parameter	Result	Units
11/17/2014	11:00	Di-n-octylphthalate	<25	ppb
11/17/2014	11:00	Fluoranthene	<25	ppb
11/17/2014	11:00	Fluorene	<25	ppb
11/17/2014	11:00	Hexachlorobenzene	<25	ppb
11/17/2014	11:00	Hexachlorobutadiene	<25	ppb
11/17/2014	11:00	Hexachloroethane	<25	ppb
11/17/2014	11:00	Hexacyclopentadien	<25	ppb
11/17/2014	11:00	Indeno(123-cd)pyrene	<25	ppb
11/17/2014	11:00	Isophorone	<25	ppb
11/17/2014	11:00	Naphthalene	<25	ppb
11/17/2014	11:00	Nitrobenzene	<25	ppb
11/17/2014	11:00	Nnitrosodimethylamin	<25	ppb
11/17/2014	11:00	Nnitrosodinpropylami	<25	ppb
11/17/2014	11:00	Nnitrosodiphenylamin	<25	ppb
11/17/2014	11:00	Pentachlorophenol	<25	ppb
11/17/2014	11:00	Phenanthrene	<25	ppb
11/17/2014	11:00	Phenol	<25	ppb
11/17/2014	11:00	Pyrene	<25	ppb
11/17/2014	11:00	Oil and Grease EPA Method 1664 (SIU)	<4.0	ppm
11/17/2014	11:00	Cyanide	<4.00	ppb
11/17/2014	11:00	Methylene Chloride	<5	ppb
11/17/2014	11:00	Fecal Coliform (3 tube) SM 9221E - Fecal	>240000	MPN/100 ml