

Narragansett Bay Commission

2020 Data Report



**Prepared by the Staff of the
Environmental Monitoring and
Technical Analysis & Compliance Sections**

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Narragansett Bay Commission

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Introduction

The Narragansett Bay Commission

The NBC owns and operates the state's two largest wastewater treatment facilities (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.

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 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, transformed this dilapidated facility, the third oldest WWTF in the nation, into a state-of-the-art award-winning facility. As the largest secondary WWTF 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, and advanced secondary treatment with nitrification and denitrification for up to 77 MGD. In 2020, the average daily flow to the facility was 40.4 MGD.

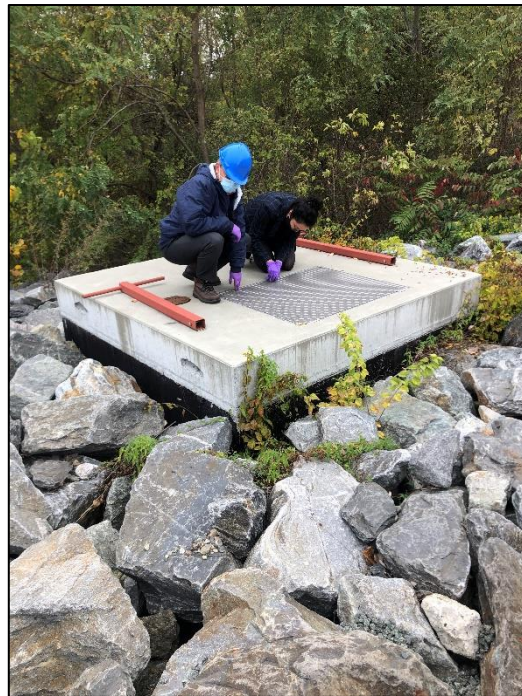
In 1992, the Rhode Island General Assembly expanded the NBC's mission by placing it in charge of the Bucklin Point WWTF in East Providence. In 1999, supervisory management of this plant was privatized to Professional Services Group (PSG) and was managed by Suez Environment/United Water. On July 1, 2015, NBC resumed full management and operations of the facility. Over the last twenty years, the Bucklin Point plant has undergone major upgrades to include new screening and grit facilities, wet weather facilities capable of providing primary treatment and disinfection, a new fine bubble-diffusion aeration system, nutrient removal facilities, and ultraviolet (UV) disinfection of wastewater, reducing the use of chemicals to disinfect and dechlorinate wastewater prior to discharge. The Bucklin Point facility is designed to provide preliminary and primary treatment for up to 116 MGD and advanced secondary treatment with nitrification and denitrification for up to 46 MGD. In 2020, the average daily flow to the facility was 18.4 MGD.

Environmental Monitoring 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, now known as the Environmental Science and Compliance (ESC) Division. Over the years, the EMDA section continued to evolve, and in 2019 a Division reorganization resulted in a name change to the Environmental Monitoring (EM) section. The EM section remains responsible not only for industrial and manhole monitoring activities, but for all aspects of environmental monitoring for the NBC, outlined further below. EM staff also conducts many special sampling initiatives to evaluate the effectiveness of new technologies and to better understand the potential impacts of the NBC operations on the receiving waters. To this end, the EM section works closely with the Technical Analysis and Compliance (TAC) section, formed during the same Division reorganization, which is responsible for developing special study procedures, reviewing existing protocols, and analyzing the monitoring data for trends.

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 Narragansett Bay receiving waters of the NBC plant outfalls. A fixed-site continuous water quality monitoring station was constructed at an abandoned pier at Phillipsdale Landing in East Providence in the Seekonk River estuary, and a state-of-the-art monitoring buoy was acquired and deployed at Bullock Reach, just north of Conimicut Point in the Providence River estuary. In 2005, these sites became permanently funded by the NBC. These sites continue to provide invaluable data to the Rhode Island Department of Environmental Management (DEM) and the scientific community. For example, NBC's buoy data, which contains high-resolution measurements of Bay oxygen levels, played a key role in statewide efforts to document and understand the August 2003 fish



Environmental Monitoring Manager and Assistant Manager conduct a dye test at the Bucklin Point WWTF.

kills associated with hypoxic (low oxygen) events in Narragansett Bay. In order to maximize the utility of the NBC monitoring program to area stakeholders, the NBC frequently works with members of the DEM, several universities, and environmental groups, and is also a valuable contributing member of the Rhode Island Environmental Monitoring Collaborative, an organization formed by the Governor in 2004. The NBC coordinates monitoring activities with other agencies performing monitoring statewide. Therefore, as water quality compliance issues become more complex, the NBC EM and TAC sections' roles in environmental monitoring and compliance issues continues to expand.

The NBC EM, TAC, and Laboratory sections work together in the Water Quality Science Building (WQSB), built in 2016 and featuring state-of-the-art laboratory space to continue and expand NBC's numerous sampling and data analysis duties. The WQSB can accommodate almost all sampling, monitoring, and analysis needs of the NBC.

The EM section continued to perform the following monitoring activities throughout 2020:

- Daily sampling of NBC's two WWTFs to satisfy Rhode Island Pollutant Discharge Elimination System (RIPDES) requirements;
- Sampling of each Significant Industrial User at least once annually to satisfy and exceed EPA Pretreatment Program mandates. Please note, this is a reduction from the twice normally scheduled sampling as a result of the pandemic;
- Weekly monitoring of select surveillance manholes to satisfy EPA mandates;
- Weekly monitoring of select sanitary manholes to obtain data required for local limits development;
- Weekly sampling of 23 sites on urban rivers in NBC's service area for bacteria analysis;
- Sampling of 20 locations in the estuarine NBC receiving waters (i.e., the Providence and Seekonk Rivers) for bacteria analysis every two weeks;
- Sampling of 15 sites on rivers entering the upper Bay from Massachusetts and Rhode Island for nutrients once to twice per month;
- Sampling of 8 locations at the surface and bottom of the Providence and Seekonk Rivers for nutrients once to twice per month;
- Weekly mapping of the Providence and Seekonk Rivers for surface chlorophyll, dissolved oxygen (DO), temperature, and salinity;
- Sampling at Bullock Reach for qualitative and quantitative phytoplankton analysis;
- Video surveys along three permanent transects in the Providence River to track changes in benthic algae growth, species occurrences, and other indicators of environmental health several times per year;
- 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, land-based dock station, and special study stations to ensure accurate data for state partners and the public.

In late March 2020, Environmental Monitoring sampling efforts were reduced due to staffing limitations associated with the COVID-19 pandemic; NBC Laboratory operations were also impacted. Therefore, some bacteria, nutrients, and phytoplankton data from urban rivers and receiving waters are not available from late March-May. Associated surface mapping of

dissolved oxygen, chlorophyll, temperature, and salinity also did not occur during those times. Additionally, weekly monitoring of select surveillance manholes and sanitary manholes was not conducted in April, May, and August. Sampling of mercury in WWTFs and metals in septage was also impacted. Typically, metals sampling is performed on septage twelve times per month for long-term monitoring purposes. Nine septage samples were analyzed in March, no samples were analyzed in April through June, and six samples were analyzed in July, though septage continued to be hauled and tested for pH multiple times per month. Mercury is typically sampled once per month at each WWTF. Mercury analysis was not performed at NBC WWTFs in March and July due to pandemic staffing adjustments and laboratory instrumentation issues. Mercury analyses in March, June, and July were also reduced for sanitary manholes.

The NBC EM section has always done an excellent job of implementing monitoring initiatives. This annual report serves as a streamlined public dissemination of all 2020 EM monitoring data. Previous reports, back to 2007, are publicly available on the NBC website.

Acknowledgements

This report has been prepared by the staff of the EM and TAC sections, under the general direction of Thomas P. Uva, Director of Environmental Science and Compliance (ESC). This report is a summation of the collective efforts by the Environmental Monitors and Monitoring Field Supervisors that collected 26,938 samples during 2020. It represents the countless hours of processing, compiling, analyzing, and interpreting all the data by the EM Assistant Manager, LIMS Data Coordinator, and TAC Environmental Scientists, interns, as well as data entry and general assistance by clerical staff.

The NBC Laboratory staff analyzed all the samples collected by the EM section. In total, during 2020, the Laboratory generated 114,410 analyses from the samples it received. A special acknowledgement and thank you to the NBC EM, Laboratory, TAC, and other staff and interns that made this report possible:

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Field's Point and Bucklin Point WWTF Sample Collection Methodology

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 (EM) 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 (WWTFs) 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 WWTFs 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 these 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 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 data are necessary to quickly identify potential problems within the plants and to routinely reassess the removal efficiency of pollutants. All sample collection, preservation, storage, and analyses at the Field's Point and Bucklin Point WWTFs are performed with strict adherence to United States Environmental Protection Agency (EPA) protocols.

The 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. EM works in conjunction with the Pretreatment, Laboratory, Operations, Engineering, and Technical Analysis and Compliance (TAC) 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 sent off-site for disposal or as effluent discharged to Narragansett Bay. In support of NBC's mission and RIDPES requirements, the EM section collected 26,938 samples and the NBC laboratory conducted 114,410 analyses during 2020. WWTF sampling data for 2020 are attached and can be found in Tables 1–44. Table numbers are referenced in each section below.

Collection of Samples at Field's Point and Bucklin Point

Samples collected to evaluate the WWTF processes 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 individually. At

Field's Point, samples are assigned to a sample date based on the "flow-day," which is generally from 07:00 AM to 06:59 AM the following day, except as described in the following paragraph. Composite sampling therefore includes some sample water from the following calendar day. At Bucklin Point, the sampled date corresponds to the calendar day for regulatory reporting.



Environmental monitor records data at the Bucklin Point WWTF.

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 influent samples are collected at Field's Point for metals, cyanide, or nutrient analysis, the commencement of effluent sample collection is delayed by 12 hours from the start time of influent sampling, 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 WWTF. This delay in sampling for the influent and effluent with allowance for hydraulic detention time is required for the metals and cyanide samples according to the RIPDES permits. For carbonaceous biochemical oxygen demand (CBOD) and total suspended solids (TSS), the influent and effluent samples are collected without any time offset, meaning the ISCO samplers that collect the wastewater for the influent sampling and effluent sampling are programmed to collect a 24-hour composite sample at the same times. 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 collected from both

interceptors and mixed flow-proportionally. Effluent samples are collected 17 hours after the start of the influent with the goal of sampling the same parcel of water 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 River estuary or Seekonk River estuary. 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 sections provide more detailed descriptions of composite sampling at both WWTFs.

Composite Sampling at Field's Point

Composite sampling at Field's Point is conducted on a time-paced basis. All composite autosamplers sample the waste stream at 30-minute intervals and collect a volume of 100 mL. The samples are combined into 24-hour composites of the wastewater at the sampling location. EM uses refrigerated ISCO 3700, ISCO 4700, and ISCO 6712 programmable autosamplers throughout Field's Point. 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 maintained at 4°C (acceptable range is 1-6°C) and temperature of each sampler is documented three times per day by EM staff.

Two types of suction tubing are used for composite sampling at the Field's Point WWTF. Influent and effluent peristaltic samplers collecting trace metals samples use suction tubes lined with Teflon®. Teflon® 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® tubing as suction lines. This tubing is much more resilient and pliable. The Teflon® and Tygon® 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 is changed every month. To improve cyanide data, starting August 2020, the suction line in the effluent cyanide sampler is replaced monthly. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the autosamplers monthly. This procedure takes place at the autosampler collection site. The Teflon® 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 techniques for clean sampling that EM follows specifically. These clean sampling methods are specifically used to reduce contamination in autosamplers located at the influent/grit building and final effluent that collect wastewater analyzed for trace metals and nutrients. 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. The autosamplers sample the waste stream at 30-minute intervals and take a volume of 100 mL. The samples are combined into 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. Influent composite samples from the BVI and EPI are combined flow-proportionally and analyzed together for all parameters. All sample locations use the ISCO samplers, except for the primary effluent which uses the Sigma sampler. Temperatures of the refrigerated samplers are maintained at 4°C (the acceptable range is 1-6°C) and temperature of each sampler is documented three times per day by EM 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®. Teflon® 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® tubing as suction lines. This tubing is much more resilient and pliable. The Teflon® and Tygon® 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 is changed every month. A dilute sodium hypochlorite solution is used to clean both the Teflon® and Tygon® suction line and pump tubing of the autosamplers monthly. This procedure takes place at the autosampler collection site. The Teflon® 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), Carbonaceous BOD (CBOD), and Bacteria Analyses at Field's Point and Bucklin Point

NBC's RIPDES permits require sampling of TSS and CBOD daily using 24-hour composite samples 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 analysis every morning around 08:00 AM. The NBC Laboratory uses Standard Method 5210-B for CBOD analysis using a Skalar robotic BOD analyzer equipped with YSI dissolved oxygen (DO) probes. TSS analysis is conducted using

Standard Method 2540-D-E. Parameters analyzed daily alongside TSS and CBOD include pH, settleable solids, and temperature. Analyses for these parameters adhere to Standard Method 4500-H +B, Standard Method 2540-F, and EPA Method 170.1, respectively. EM staff clean carboys used for TSS and CBOD sample collections in the dishwasher after each use, and carboys are replaced as necessary.

Bacteria sampling at each WWTF includes one effluent grab sample for fecal coliform analysis and two effluent grab samples for enterococci analysis per day. EM staff collect a fecal coliform and enterococci sample at 08:00 AM; operations staff also collect an enterococci sample in the time frame of 03:00-05:00 AM. The final enterococci 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. Duplicate samples are collected and analyzed for fecal coliform and enterococci once per week.

The procedure for bacteria sampling at both WWTFs requires staff to wear new, clean nitrile gloves at all times during sample collection. Sterile sample bottles are placed in a sampling device (i.e., an open-ended polyvinyl chloride [PVC] cylinder with the bottle held in place by a small screw running through the cylinder body) and lowered six inches below the water surface in the center of the flow stream to collect the sample. At Field's Point, a pellet of sodium thiosulfate in the bottle neutralizes residual chlorine if present. The sodium thiosulfate tablet is not needed at Bucklin Point since disinfection is achieved via UV disinfection. Once filled, the bottle is sealed, labeled, and placed in a cooler with ice for immediate transport to the NBC Laboratory. The 3-5AM sample is sealed, labeled, and placed in a sample refrigerator until the morning pickup by EM staff. At the Laboratory, samples are analyzed for fecal coliform using Standard Method 9221-E A-1, fecal coliform by multiple tube fermentation, and for enterococci using the IDEXX Enterolert Method 1600 with Quanti-Tray 2000 enumeration system.

Field's Point and Bucklin Point TSS and CBOD daily data and enterococci and fecal coliform daily geometric mean data for 2020 can be found in the attached Tables 1 and 2, respectively. Enterococci and fecal coliform sub-daily sample results can be found in Table 3 (Field's Point) and Table 4 (Bucklin Point).

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 aluminum, arsenic, cadmium, hexavalent chromium, copper, lead, nickel, zinc, and available cyanide at Field's Point and aluminum, cadmium, hexavalent chromium, copper, lead, nickel, zinc, and available cyanide at Bucklin Point. Metals and cyanide measurements are required twice weekly at both plants except for zinc at Field's Point and aluminum, cadmium, hexavalent chromium, and lead at each plant, which are required once per month. Other metals that are analyzed but are not required by the RIPDES permits include arsenic and tin at Bucklin Point, and chromium, iron, mercury, molybdenum, selenium, and silver at both plants. Total cyanide is analyzed using EPA Method 335.4, while available cyanide is analyzed via Standard Method 4500-CN-G on a Lachat Quikchem 8500 Series II Flow Injection Analyzer. Metals are analyzed on an Inductively Coupled Plasma Mass Spectrometer (ICPMS), using EPA Method 200.8. Hexavalent chromium is analyzed on a Hach DR 3900 Spectrophotometer, using Hach

Method 8023. Mercury is analyzed on a Cetac M-7600 Quicktrace Mercury Analyzer according to EPA Method 245.7. Metals and cyanide data for 2020 can be found in the attached Tables 5-8 (Field's Point) and 9-12 (Bucklin Point).

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 both WWTFs, nine of the twelve grab samples from each 24-hour sampling period are composited into a 2-liter high-density polyethylene (HDPE) bottle. At Bucklin Point, composite samples of nine separate grab samples for cyanide at the influent are collected from both interceptors, the BVI and EPI; samples from these interceptors are then mixed flow-proportionally. The pH is tested with indicator strips 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. Composite samples are checked for sulfides and chlorine residual using lead acetate and potassium iodide indicator paper, respectively, as these chemicals can interfere with cyanide measurements.

For influent and final effluent autosamplers that collect wastewater analyzed for trace metals, a special clean sampling method is used to reduce contamination, as mentioned above. 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 10 or 15-liter Nalgene® 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, 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 of that DI water using sampling and preservation procedures identical to those 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 in 2005 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 5.0 mg/L for total nitrogen (TN) were proposed in the 2005 RIPDES permit modification. In June 2006, a consent agreement was signed, which imposed a seasonal interim effluent TN permit limit of 18.2 mg/L at Field's Point and 10.0 mg/L for Bucklin Point. In May 2009, the DEM modified the

consent agreement for Bucklin Point to impose a seasonal interim effluent TN limit of 8.5 mg/L. The NBC worked diligently to maximize nitrogen removal at Bucklin Point and achieved significant reductions in nitrogen loading. However, the NBC determined that additional modifications were required to achieve compliance with the TN limit of 5.0 mg/L as set forth in the consent agreement. Major facility upgrades and renovations were necessary to implement biological nutrient removal (BNR) technology at each plant. Field's Point completed these upgrades in 2013, and the consent agreement effluent TN limit of 5.0 mg/L went into effect on May 1st, 2014; Bucklin Point completed upgrades and began operations under this limit on July 14th, 2014.

Nutrients are analyzed from 24-hour composite influent and effluent samples, collected three days per week. Sample collection carboys are dishwasher-cleaned, acid-washed, and DI water-rinsed before they are placed at their sampling locations. Equipment blanks are collected every other month using DI water from the acid-washed carboys and pump tubing to verify the absence of sample contamination.

All nutrient samples are analyzed by the NBC Laboratory using a Lachat Quikchem 8500 Series II Flow Injection Analyzer. The nutrients analyzed are TKN, TN, nitrite, nitrate, ammonia, and total phosphorus. TKN is comprised of the ammonia-nitrogen and organic-nitrogen in a sample. Total Kjeldahl nitrogen is analyzed using EPA Method 351.2, while TN, which includes both TKN and nitrate-nitrite, is determined via Standard Method 4500-NB. Nitrite+nitrate and nitrate are determined via EPA Method 353.2; nitrate is determined by difference from a combined nitrite+nitrate measurement and a nitrite measurement. Ammonia is analyzed using EPA Method 350.1. Total phosphorus is analyzed via EPA Method 365.4. NBC's Laboratory continues to update their techniques and equipment to ensure high-quality data; the nutrient autoanalyzers currently online and in use were acquired in 2017 and 2018.

Both the Bucklin Point and Field's Point facilities remained in compliance with the monthly average 5.0 mg/L TN permit limit throughout the 2020 May through October season. The seasonal effluent TN averages for Field's Point and Bucklin Point were 2.2 mg/L and 3.5 mg/L, respectively. WWTF nutrients data for 2020 can be found in Tables 13 and 14.

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

The NBC RIPDES permits require effluent sampling for oil and grease once per month at each facility, via three grab samples collected over the course of a 24-hour period, with one grab sample collected per shift. The grab samples are analyzed separately and the maximum result is reported on the monthly Discharge Monitoring Report (DMR), though the RIPDES permit does not set a discharge limit. The NBC conducts similar sampling of the influent for oil and grease at each facility as well, though these data are not reported on the monthly DMR.

Oil and grease samples are collected using a pre-cleaned glass 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 of the water at the effluent sampling location. The bottle is filled and then re-capped. Oil and grease grab samples

are preserved with hydrochloric acid to a pH less than 2 s.u. by EM staff as soon as possible after collection. These samples are then brought to the NBC Laboratory for analysis of hexane-extractable materials using EPA Method 1664. Oil and grease average results for 2020 can be found in the attached Table 15.

Sample Collection for Effluent Dissolved Metals Analysis at Field’s Point and Bucklin Point

The NBC has been studying effluent dissolved metals at both WWTFs since 2000. During 2020, monthly Field’s Point and Bucklin Point effluent samples were collected and analyzed for dissolved metals. The NBC and DEM use these data to better understand the fate, effect, and physical partitioning of metals discharged from the WWTFs. Metals in the dissolved form are more readily absorbed by marine life than metals associated with particles, therefore, the EPA and DEM have established fresh and saltwater water quality criteria for dissolved metals concentrations. However, WWTF effluent discharges are permitted for total metals only. Therefore, the DEM must use a “metal translator conversion factor” to set appropriate total metals limits for a WWTF, based upon the dissolved metals water quality criteria. By conducting monthly sampling for both total and dissolved metals, the NBC will be able to better



Environmental monitor collecting a sample at the Bucklin Point WWTF.

assess the phase partitioning of metals in its effluent and in the receiving waters to inform the use of metal translators.

Effluent dissolved metals samples are split from the effluent total metals composite sample on one day per month, typically 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 the treated water is discharged to the Providence River estuary (Field's Point) or Seekonk River estuary (Bucklin Point). As part of a quality assurance plan, the NBC Laboratory analyzes laboratory equipment blank samples (DI water) along with the dissolved metals to ensure accurate results. Dissolved metals samples are filtered with a 0.45- μm pore diameter membrane filter prior to preservation and digestion and are analyzed according to EPA Method 200.8 via ICPMS. Effluent dissolved metals results for 2020 can be found in Tables 16 and 17 for Field's Point and Bucklin Point, respectively.

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. These bioassays use the response of organisms to effluent at varying dilutions to detect and measure the potential impact of substances, wastes, or environmental factors alone or in combination as they exist in the effluent. NBC met the quarterly bioassay sampling frequency requirements during 2020 for both facilities. Effluent samples are collected only in dry weather, defined as no rain for 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 or CBOD, with sample carboys cleaned in the dishwasher after each use and replaced yearly.

Two bioassay tests are performed as required by the NBC RIPDES permits. An acute toxicity test is conducted 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.

Acute toxicity test results are summarized using the LC_{50} and the A-NOEC statistics. The LC_{50} (or lethal concentration, 50%) result is defined as the concentration of wastewater that causes mortality to 50% of the test organisms, *A. bahia*; the permit requirement of 100% or greater is defined as a sample which is composed of 100% effluent. 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 and is monitored though there is no permit limit. The chronic test results for *A. punctulata* are summarized using the C-NOEC or Chronic-No Observed Effect Concentration statistic. 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 determine the synergistic impact of NBC effluent on organisms in the receiving waters. All bioassay analyses are performed by third party laboratories contracted by NBC and are conducted in accordance with protocols listed in the most recent edition of the EPA document: Cornelius I. Weber, et al., 1991, Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. Bioassay data results for 2020 can be found in the attached Tables 18 and 19 for Field's Point and Bucklin Point, respectively.

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

Sludge from both the Field's Point and Bucklin Point WWTFs is removed and disposed of by Synagro Northeast under contract with the NBC. As part of this contract, the NBC conducts sampling and analysis of the sludge (i.e., filter cake) throughout the year. Sludge samples are collected daily for analysis by the NBC Laboratory. Grab samples are taken from each truck load and kept in whirl-pak bags labeled with the Bill of Lading number. At Field's Point, EM staff pours part of each sample into a snap-lid container for delivery to the laboratory by 08:00 AM the next day. These containers are disposed of after a single use. At the Bucklin Point WWTF, the whirl-pak bag is stored in the refrigerator until EM picks up the sample the next morning. EM staff mix the sample and pour off approximately 500 mL into a smaller container to bring to the laboratory for analysis. Sludge from each plant and scum from Field's Point are analyzed for total solids (TS) and volatile solids (VS), using Standard Method 2540-B. Sludge samples are also analyzed one to two times per month for metals and cyanide. Sludge samples for all metals are analyzed using EPA Method 200.7 via ICP-OES, except for mercury, which is analyzed by a contract laboratory using EPA Method 7471B (SW 846). Cyanide analysis is also completed by a contract laboratory, using Method SW9010C. Results from NBC WWTF sludge sampling described above for 2020 can be found in attached Tables 20-25.

In addition to the daily sample analysis by the NBC Laboratory, samples of filter cake from each WWTF are sent out to a contract laboratory quarterly for further analysis as required by Synagro Northeast. Quarterly analyses in 2020 and the laboratory methods used (in parentheses) included 11 metals, seven TCLP metals, and phosphorus (EPA 6010C); mercury (EPA 7471B); TCLP mercury (EPA 7470A); percent total solids (gravimetric); percent fixed solids and percent volatile solids (SM 2540-G); corrosivity/pH (SM 4500-H-B); paint filter/free liquids (EPA 9095B); and PCBs (EPA 8082A). Additional analyses required once annually included TCLP VOCs (EPA 8260C); TCLP Semi-VOCs (EPA 8270D-sim); TCLP pesticides (EPA 8081B); TCLP herbicides (EPA 8151A); flash point/ignitibility (EPA 1010A-Mod); reactive sulfide and reactive cyanide (SM REACTIVITY); and percent total sulfur (EPA 6010C). These annual analyses are typically conducted on the first quarterly sample of the year. Results of the quarterly and annual filter cake testing by the contract laboratory can be found in Table 26.

Sample Collection for EPA Priority Pollutants: Volatile Organic Compounds (VOCs)

Grab samples are collected monthly at the influent and effluent of each WWTF to be analyzed for 36 volatile organic compounds (VOCs), a subset of the EPA Priority Pollutants. A clean glass container is used to collect a grab sample. The sample is checked for the presence of chlorine using a potassium iodide test strip. Sodium thiosulfate is added to the samples as necessary to reduce the presence of chlorine. The sample is split into three sets of three Teflon-cap 40-mL vials. The first set of vials is left unpreserved, the second set is preserved to a pH range between 4 and 5 s.u., and the third set is preserved to a pH of <2 s.u. Hydrochloric acid is added dropwise to the preserved vials to attain the appropriate pH. All samples are airtight and stored at <6°C following collection. The glass vials can then be analyzed in-house or transported to a contract laboratory for analysis using EPA Methods 624.1 and 625.1 via gas chromatography and mass spectrometry. Field's Point and Bucklin Point VOC results for 2020 can be found in attached Tables 27 and 28, respectively.

Sanitary Manhole Sampling

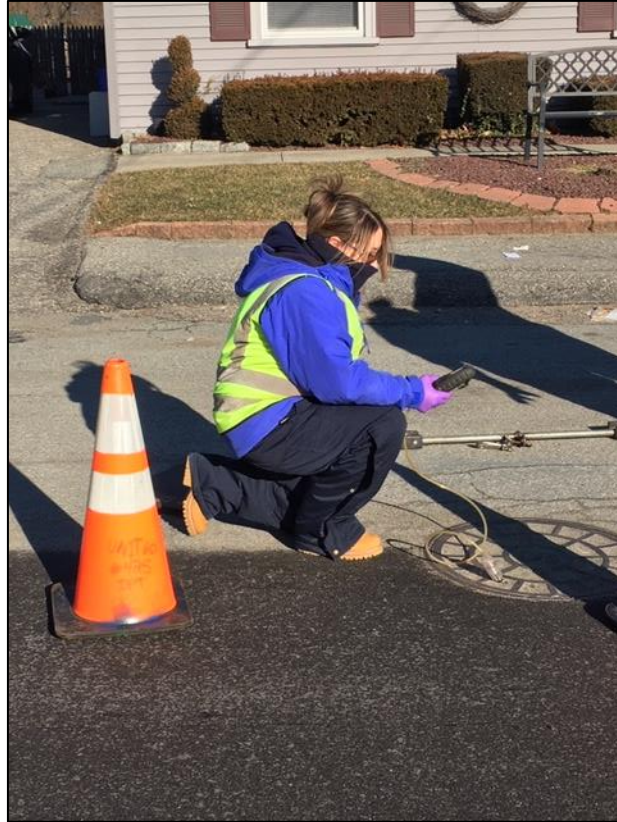
EPA and RIPDES permit regulations require the NBC Pretreatment Program to periodically reevaluate local discharge limitations. In order to complete this task, the NBC must monitor sanitary manholes to evaluate pollutant loadings from residential sources upstream of any industrial or commercial facilities. These background loadings are outside the realm of regulatory control by the NBC Pretreatment Program; however, NBC must understand these loadings in order to determine acceptable loading limits for industrial users to maintain effective pollutant removal at 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 NBC began sanitary sewer manhole sampling in 1993, and in 2000, EM began to collect samples using EPA-approved clean sampling techniques. 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.

To collect these samples, automated sampling devices are suspended in the sanitary manholes and are programmed to collect 100 mL of wastewater every fifteen minutes for 24 hours, starting in the early morning on a weekday. The aliquots collect into a 10-liter acid-washed Nalgene® bottle, and the composite sample is later poured off into specified containers for each analysis.

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

BOD, CBOD, TSS, TN, ammonia, nitrate+nitrite, TKN, cyanide, aluminum, cadmium, chromium, copper, lead, nickel, molybdenum, silver, zinc, mercury, arsenic, and selenium were measured in both Field's Point and Bucklin Point district sanitary manholes in 2020. These parameters were analyzed in accordance with methods for CBOD, TSS, nutrients, cyanide, and

metals mentioned in the Field's Point and Bucklin Point sample collection sections above. BOD was analyzed according to Standard Method 5210B using a Skalar robotic BOD analyzer equipped with YSI dissolved oxygen (DO) probes. Please note that sanitary manhole background monitoring for nutrients was discontinued as of November 2020.



Environmental monitor checks for safe conditions prior to conducting manhole sampling.

In addition to informing the calculation of local limits that the NBC imposes on its industrial users, 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. Sanitary manhole testing results for 2020 can be found in Table 29.

Industrial and Commercial User Sampling

The EPA requires that all significant industrial users (SIUs) be sampled at least once every twelve months. The NBC has established a more stringent goal to sample each SIU twice per year and also samples a subset of other industrial and commercial users annually, utilizing the collection and preservation techniques specified in their Wastewater Discharge Permit. The NBC collected 95 sets of industrial and commercial user samples in 2020. Industrial and commercial user data for 2020 can be found in Tables 30A-C. Note that these data are not the sole basis for determining compliance of industrial and commercial users with NBC Pretreatment

requirements. Additional data, including user self-monitoring sample results, are utilized for this purpose though not included in this annual report. The NBC Pretreatment department publishes an annual report each year with all compliance data for all industrial users. This report is available via the NBC's website www.narrabay.com.

For SIU sampling, the automated sampling device tubing and container are acid cleaned, rinsed with DI water, and a cleaning blank is produced after every use. Trip blanks are collected with this type of sampling if the SIU requires metals analysis. The procedure for collecting a trip blank consists of filling a sample bottle with sufficient DI water, preserving with nitric acid and transporting it into the field.

Industrial manhole sampling is an additional means to track chemical spills or concentrated discharges, as well as to ensure that industrial users are in compliance with the limits set by the NBC. 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 fifteen 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[®] 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 checked for sulfides and chlorine residual 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 ICP-OES EPA Method 200.7 at the NBC Laboratory, while cyanide is analyzed using EPA Method 335.3 on a Lachat Quikchem 8500 Series II Flow Injection Analyzer.

Sampling of industrial manholes in 2020 resulted in 135 sets of data, with 1,078 individual parameter results generated for the two service districts. Industrial manhole sampling data for 2020 can be found in Table 31.

For industrial manhole sampling, the automated sampling device tubing and container are washed with non-phosphate detergent. Field blanks are also collected with manhole sampling. The procedure for collecting a field blank consists of transporting sufficient DI water into the field and collecting a sample of that DI water using sampling and preservation procedures identical to those used in collecting the manhole sample.

Sewer Line-Cleaning Sampling

The EM Department supports Interceptor Maintenance (IM) during its sewer line cleaning activities in industrial areas of concern – water is forced through a section of pipe and a pump is placed downstream to remove solids. It is expected that flushing of lines in industrial areas will resuspend contaminants that settle into low points in the pipes. Sampling of this type of activity includes an expanded list of parameters compared to routine industrial manhole sampling - metals, cyanide, TSS, oil and grease, and VOCs.

In 2020, EM collected line-cleaning samples from three manholes. Line-cleaning sample data can be found in Table 32.

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 EM section 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. 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. Prior to septage samples being collected, IM staff sample and screen each septage truck's waste delivery. 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 each 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 composited with samples from each of the septage truck deliveries that day and sent to the NBC Laboratory for analysis.

Septage samples are collected daily Monday-Saturday. All six daily composite samples are kept refrigerated until they are picked up by EM staff on Mondays at the Lincoln Septage Station and are brought to the NBC Laboratory that same day, barring unforeseen circumstances. Three daily samples are chosen at random and analyzed by the NBC Laboratory for trace metals each week.

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.

During 2020, 107 septage samples were analyzed for trace metals via methodology described in the Field's Point and Bucklin Point WWTF sample collection sections above. Septage sample results for 2020 can be found in Tables 33 and 34.

Stormwater Sampling

Stormwater generated at the NBC WWTFs is regulated under the RIPDES Multi-Sector General Permit (MSGP). The MSGP was first issued in 2006 and re-issued in 2013; the 2013 MGSP expired on August 14th, 2018. A new MSGP went into effect on May 3rd, 2019. Sampling required by this permit started in January 2020.

The 2019 MSGP requires stormwater to be sampled at all stormwater monitoring locations at both NBC WWTFs. Sampling is conducted at eight locations at Field's Point and five locations at Bucklin Point. A sixth stormwater location at Bucklin Point (outfall 002-Y) has been sealed, will no longer discharge, and therefore is not sampled. Four storm events must be sampled each year, specifically, twice in every six-month period with at least one month between sampling events. The sampled storm events must not have been preceded by measurable rainfall within the prior 72 hours, and samples must be collected within the first 30 minutes (or as soon as practicable, with documentation) following the start of storm event discharge. Stormwater parameters required for analysis include fecal coliform, oil and grease, TSS, and TN (calculated as TKN plus nitrate-nitrite), analyzed as described for WWTF samples above.

In 2020, the NBC performed the required sampling of four storm events. Low flows hindered sampling of one outfall at Field's Point in June, and a make-up sample was collected in December. TSS and oil and grease analyses are required as part of Benchmark Monitoring under the MSGP. Results for these parameters remained below benchmark monitoring thresholds listed in the MSGP, therefore, the requirements for these parameters have been fulfilled for the permit period and further monitoring is not required until permit renewal. Fecal coliform and TN analysis is required as part of Impaired Waters Monitoring under the MSGP. TN concentrations measured were believed to be due solely to background sources and not from sources associated with NBC activities, therefore, this monitoring is also considered complete for the permit period. Fecal coliform monitoring will continue in 2021. The results of NBC stormwater monitoring for 2020 can be found in Table 35.

NBC Receiving Waters Monitoring Activities

Introduction

The NBC not only monitors wastewater from the sources to the WWTFs (e.g., industries and manholes) and throughout the plant process, but also monitors the receiving waters, where treated effluent and combined sewer overflow (CSO) discharges enter. Receiving waters monitoring includes sampling the surrounding urban rivers and upper Narragansett Bay as well as some of the rivers that enter the upper Bay from Massachusetts. This monitoring is vital to determine the impact of NBC effluent on the river and Bay ecosystems. The data are useful in evaluating the success of the CSO Abatement Project in the upper Bay and provide insight into the response of the receiving waters to WWTF upgrades. The EM and TAC sections' roles in environmental monitoring and compliance issues also continue to expand as these issues become ever more complex.

In 2020, EM continued sampling for nutrients at several locations in the Providence and Seekonk River estuaries of upper Narragansett Bay and within the watershed at local river stations and at river stations on the Massachusetts/Rhode Island 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 loading dynamics is integral to understanding coastal nutrient pollution issues. Determination of background loadings, effluent discharge impacts, and fate of nutrients from the NBC facilities are necessary components of sound environmental policy. This monitoring initiative was undertaken to provide greater insight into nutrient cycling dynamics 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 bacteria in the local freshwater rivers and the estuarine waters of the Providence and Seekonk Rivers. Specifically, fecal coliform and enterococci are monitored as indicators of potential presence of pathogens (disease-causing organisms) in these waterbodies. Generally, if bacteria counts are elevated, there is a high potential for the presence of pathogens that could be harmful to both humans and wildlife. Raw, undiluted sewage contains high levels of both fecal coliform and enterococci 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 waste stream passes through primary and secondary treatment and, ultimately, disinfection via chlorination or UV light. Final effluent wastewater discharged from the Field's Point and Bucklin Point WWTFs typically has very low levels of fecal coliform and enterococci bacteria.

Both fecal coliform and enterococci data are utilized by state agencies to monitor water quality in the Bay and rivers. Measurements of enterococci bacteria, 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 in 2006. Fecal coliform criteria are only applied when enterococci data are not available. However, shellfishing standards

continue to be based on fecal coliform bacteria levels. Collecting data for both groups of indicator bacteria also allows the NBC and others to evaluate whether there is a consistent relationship between enterococci and fecal coliform results in the receiving waters environment.

Bacteria monitoring is particularly important for evaluating the impacts of the NBC's combined sewer system. During large rain events, the two treatment facilities use special wet weather treatment tanks to treat and disinfect the higher volumes of combined rainwater and sewage influent. However, during intense rain events when the collection system is overwhelmed, the NBC's CSOs can send untreated stormwater and sewage that the collection system cannot contain directly into the freshwater rivers and upper Bay. The NBC river bacteria monitoring stations are strategically located upstream and downstream of CSOs to regularly evaluate their impact.

EM also conducts monitoring of particular CSO discharges during wet weather events. The NBC has embarked on an historic public works project to eliminate the negative impact that CSOs can have on water quality, with a three-phase CSO Abatement Project, of which Phase I began operation in the fall of 2008. The major achievement of Phase I was construction of a 3-mile long, 65-million-gallon storage tunnel that collects approximately 1 billion gallons of combined stormwater and sanitary sewage each year, which is then pumped to the Field's Point facility for full advanced-secondary treatment. Phase II systems, completed and online during 2015, included sewer separation projects, a screening and storage facility and constructed wetland, and additional connections to the Phase I tunnel. Phase III of the project is currently in the planning stages and will include construction of a storage tunnel in the Bucklin Point district.

As part of monitoring the overall health of the Bay, the NBC monitors water quality and marine biota through several additional initiatives. The fixed-site monitoring initiative comprises two water quality monitoring stations, one located at a dock at Phillipsdale Landing in the Seekonk River and one on a buoy at Bullock Reach in the Providence River. EM maintains these monitoring sites to continuously collect data on temperature, dissolved oxygen, salinity, pH, chlorophyll, and turbidity. In addition, vertical water quality profiles are collected approximately weekly (May - October) or every other week (November - April) at nine locations throughout the upper Bay by lowering sensors through the water column, recording temperature, salinity, dissolved oxygen, density, chlorophyll fluorescence, and photosynthetically active radiation (PAR). To complement these data, water clarity is measured at each monitoring site via Secchi disk. While the research vessel is underway, an effort to conduct real-time surface water quality mapping occurs, as water is circulated through a sensor on the boat and analyzed for temperature, conductivity, dissolved oxygen, pH, and chlorophyll *a*. Marine biota are monitored via monthly grab and plankton net samples for phytoplankton analysis and video surveys of the benthos several times per year.

Receiving waters monitoring activities are discussed in further detail in the sections that follow. Most data generated from the receiving waters monitoring initiatives are posted for public use on the NBC's website "Snapshot of Upper Narragansett Bay" (<http://snapshot.narrabay.com/app/>) or may be requested at any time.



Environmental monitors empty the phytoplankton net on the R/V Monitor.

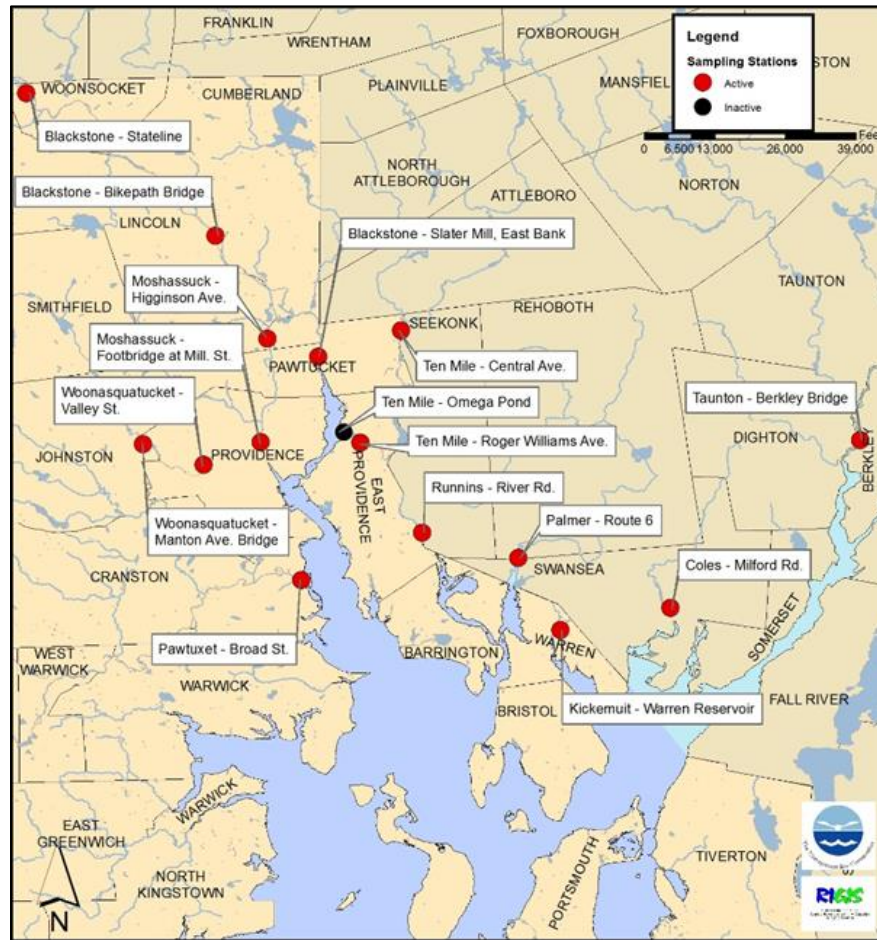
River and Bay Nutrient Monitoring

The NBC has been proactive in responding to environmental concerns regarding 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 loadings from the urban rivers that empty into Narragansett Bay just upstream of tidal influence, and an evaluation of the nutrients entering Narragansett Bay via rivers from Massachusetts. Both components are important to accurately determine the nutrient inputs to Narragansett Bay and the impact of sources outside of the NBC service district. By determining the magnitude and relative importance of these nutrient loads, the NBC will be able to more accurately determine the impact of biological nutrient removal (BNR) systems at the wastewater plants as well as plan future facility upgrades at both facilities. These data will also contribute to developing a thorough understanding of nutrient fluxes to Narragansett Bay.

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. During these first two years

of the program, sample splits were submitted to both the NBC Laboratory and the University of Rhode Island Graduate School of Oceanography Marine Ecosystems Research Laboratory (URI GSO MERL) facilities to assure data quality. 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 November 2017, the Ten Mile River @ Omega Pond site became inaccessible to NBC EM staff; a new site, at Roger Williams Ave. was initiated in August 2018 to take its place. During 2019, the Slater Mill, East Bank site was temporarily inaccessible due to dam repair work; alternate sites at Exchange St. and Main St. Bridge were sampled during this period. In 2020, there were fifteen sample stations monitored one to two times per month. The locations of river nutrient sampling stations can be found in Figure 1.

Figure 1: NBC River Nutrient Sampling Stations



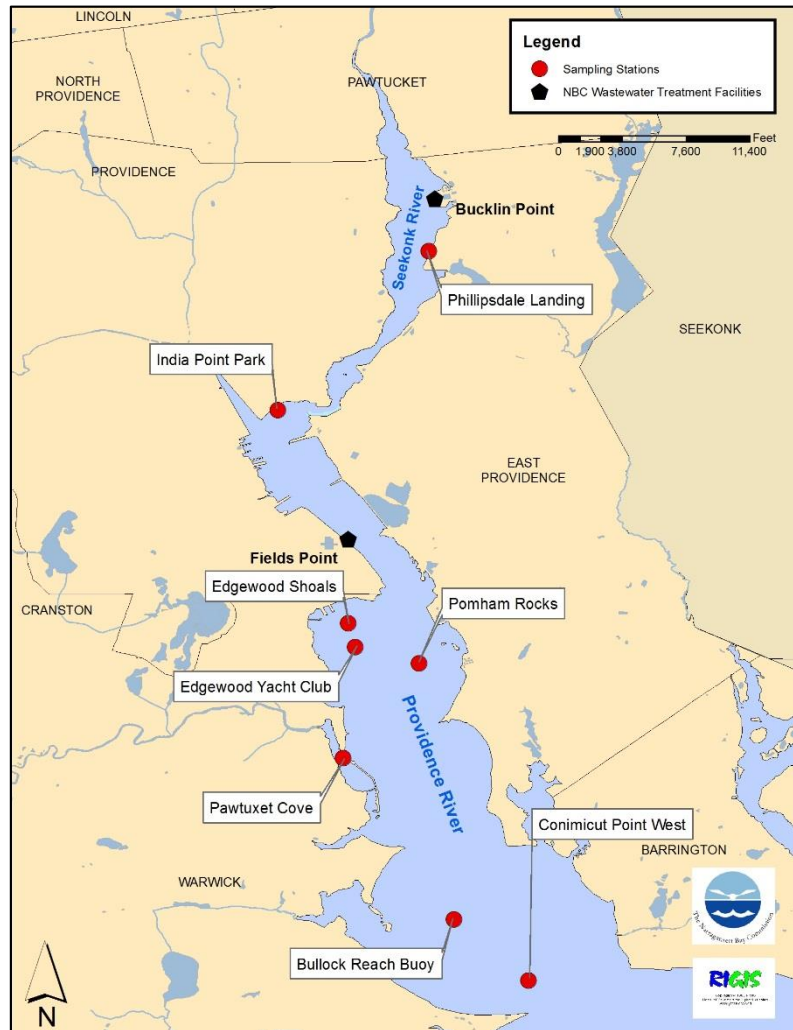
River nutrient samples are collected near the midpoint of the flow in the river channel, at a depth of approximately 0.5 to 1 meter below the surface, using a peristaltic pump, Tygon® tubing, and large plastic collection bottles. Samples for TSS are also collected as part of nutrients surveys. Prior to the sample day, all collection bottles, sample containers, and tubing is washed with non-phosphate detergent and acid-rinsed with 10% HCl, then rinsed with DI water. Most individual sample bottles are new and sterile at the start of this process, though ammonia bottles are washed

and reused. During sampling, water is first pumped into the large (e.g., 2-liter) collection bottle, then split into individual sample bottles for each set of analyses (described below). All tubing is rinsed with DI water between sample stations. At each station, tubing is also flushed with river water prior to sample collection. As part of EM's quality assurance efforts for this program, field blanks and duplicates are collected in order to determine the accuracy and precision of sampling methods and sample handling techniques. Field blanks are collected by each team during each nutrient 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 collected using DI water in place of river water, with the same handling techniques as the actual river samples. Duplicate samples are collected by splitting the main large collection bottle of water into two sets of sample bottles for analysis. In addition to these sampling QA/QC measures, the NBC Laboratory has a rigorous analytical QA/QC program in place for all nutrient analyses.

The water in the large collection bottle is divided among smaller bottles for individual analyses while on site. Unfiltered samples are poured into bottles for TSS and total nitrogen analysis, while the remaining sample bottles (for total dissolved nitrogen, nitrate+nitrite, nitrite, orthophosphate, silicate, and ammonia) are filled after filtering the sample water through 0.45- μm filters; the results of analyses on these filtered samples therefore represent the dissolved (or soluble) concentrations only. The filter and each individual sample bottle are rinsed with sample water prior to filling, and filters are discarded after each sample or duplicate sample is finished. Once the sample bottles have all been filled, they are labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. Sample bottles may be frozen for storage before analysis, except for ammonia and TSS samples, which remain refrigerated. If samples exceed the holding time, they are analyzed but data is flagged in LIMS.

To measure any direct changes in nutrients in the upper Bay as a result of WWTF upgrades and the CSO Abatement Project, the NBC began sampling for nutrients in the Providence and Seekonk River estuaries during the summer of 2005. The direct water column nutrient measurements provide important insight regarding the amount of nutrients in the upper Bay from all sources, including river loading, surrounding WWTFs, atmospheric deposition, groundwater, runoff, failing 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 (Figure 2). In July 2006, one additional bay station was added and NBC began collecting bottom samples periodically at all bay stations. The new bay station was located at the Bullock Reach Buoy, where the NBC fixed-site continuous water quality monitoring buoy is located. In August of 2012, a seventh site was added in Pawtuxet Cove, 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. An eighth site was added in 2014, at Edgewood Shoals. As seen in Figure 2, the Conimicut Point, Bullock Reach Buoy, Pawtuxet Cove, Edgewood Shoals, Edgewood Yacht Club, and Pomham Rocks stations are located in the Providence River. The Phillipsdale Landing station is located in the Seekonk River at the fixed continuous water quality monitoring dock site, and the India Point Park station is located near the mouth of the Seekonk River estuary.

Figure 2: NBC Bay Nutrient Sampling Stations



Bay samples are collected, filtered, and preserved on-board the NBC research vessel, the *R/V Monitor*. All surface collections in bay waters are made at a depth of approximately 0.5 to 1 meter below the surface. Bottom collections are made approximately 0.5 to 1 meter above the sediment. Samples are collected using an acid-washed and DI water-rinsed Niskin sampler, with sample water then poured off into a large collection bottle. All tubing and bottles are acid-washed and then rinsed with DI water before the sampling day, and tubing is rinsed with DI water between sample stations. The Niskin sampler and bottles are rinsed with sample water at each site prior to sample collection. Duplicate samples and DI water field blanks are collected as described above, with duplicate samples being poured from the same Niskin sample in order to determine the accuracy and precision of sampling methods and sample handling techniques. As described for the river samples, the water in the large collection bottle is divided among smaller bottles for individual analyses while on site. A chlorophyll and phaeophytin sample (not collected at river sites) is filtered using a GF/F, 0.7- μm , 47-mm diameter TCLP filter and is preserved with magnesium carbonate prior to storage in a dark cooler. Unfiltered samples are poured into bottles for TSS and TN analysis, while the remaining sample bottles (for total

dissolved nitrogen, nitrate+nitrite, nitrite, orthophosphate, silicate, and ammonia) are filled after filtering the sample water through 0.45- μ m filters. The filter and each individual sample bottle are rinsed with sample water prior to filling, and filters are discarded after each sample or duplicate sample is finished. Ammonia samples collected from bay sites are preserved with a few drops of chloroform, then all samples are labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. Sample bottles may be frozen for storage before analysis, except for ammonia and TSS samples, which remain refrigerated. If samples exceed the holding time, they are discarded and not analyzed.

The NBC Laboratory analyzes both freshwater and saltwater sample sets for nitrite+nitrate, nitrite, total dissolved nitrogen, ammonia, orthophosphate, silicate, total nitrogen, TSS, and chlorophyll *a* and phaeophytin *a* (saltwater samples only). Total nitrogen, including both dissolved and particulate phases, has just been analyzed in these samples since 2012. Each of the NBC Laboratory's methods includes rigorous analytical QA/QC procedures to ensure data quality. For all samples, the Laboratory employs methods for brackish water analysis on a Lachat Quikchem 8500 Series II Flow Injection Analyzer. Orthophosphate is analyzed via EPA Method 365.5, ammonia is analyzed via EPA Method 349.0, nitrate-nitrite is analyzed via EPA Method 353.4, and total dissolved nitrogen is analyzed via Lachat Quikchem Method 31-107-04-3-A. The Laboratory analyzes for silicate using EPA Method 366.0. TSS is analyzed using Standard Method 2540-D. Chlorophyll *a* and phaeophytin *a* are analyzed using a Turner Designs Trilogy Laboratory Fluorometer in accordance with EPA Method 445.0. Lastly, water quality parameters, including pH, temperature, and salinity, are measured by EM at the time of sample collection using a YSI EXO sonde. All data from 2020 River and Bay Nutrient sampling can be found in the attached Table 36. Additional chlorophyll and phaeophytin grab sample results collected in support of the Fixed-Site monitoring initiative are included in this table. These samples are collected, filtered, preserved, and analyzed according to the same methodology described above, and merged in this data table for simplicity.

Urban River Pathogen Monitoring

Consistent NBC monitoring for fecal coliform in the Providence area urban rivers began in 1997 and became the responsibility of EM in 1998. This monitoring was developed in conjunction with the CSO remediation stakeholder process and has developed as a tool of the IM section to check for potential problems occurring at any of the 64 CSOs the NBC currently owns, operates, and maintains. Over the past decade, some CSOs have been eliminated as part of CSO abatement. Since 2007, samples have also been collected for enterococci analysis at a subset of stations. Routine sample collections for analysis of fecal coliform and enterococci 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 sampled on Tuesdays. In the event of a holiday or any unforeseen circumstance that would prevent sampling under the regular schedule, the sampling routine will begin the next day sampling is possible. Samples are collected by EM staff in the morning and delivered to the laboratory at Field's Point no later than 11:30 AM that day. All stations sampled on the same river on the same day are collected within a two-hour period.

NBC's IM, Construction, EM, TAC, and Engineering sections determine locations to be added or omitted as needed.

Samples are collected regularly from six sites on the Woonasquatucket River, four 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; special sampling events may include sampling at additional sites not shown. During 2020, a total of 1,835 river bacteria samples were collected and analyzed.

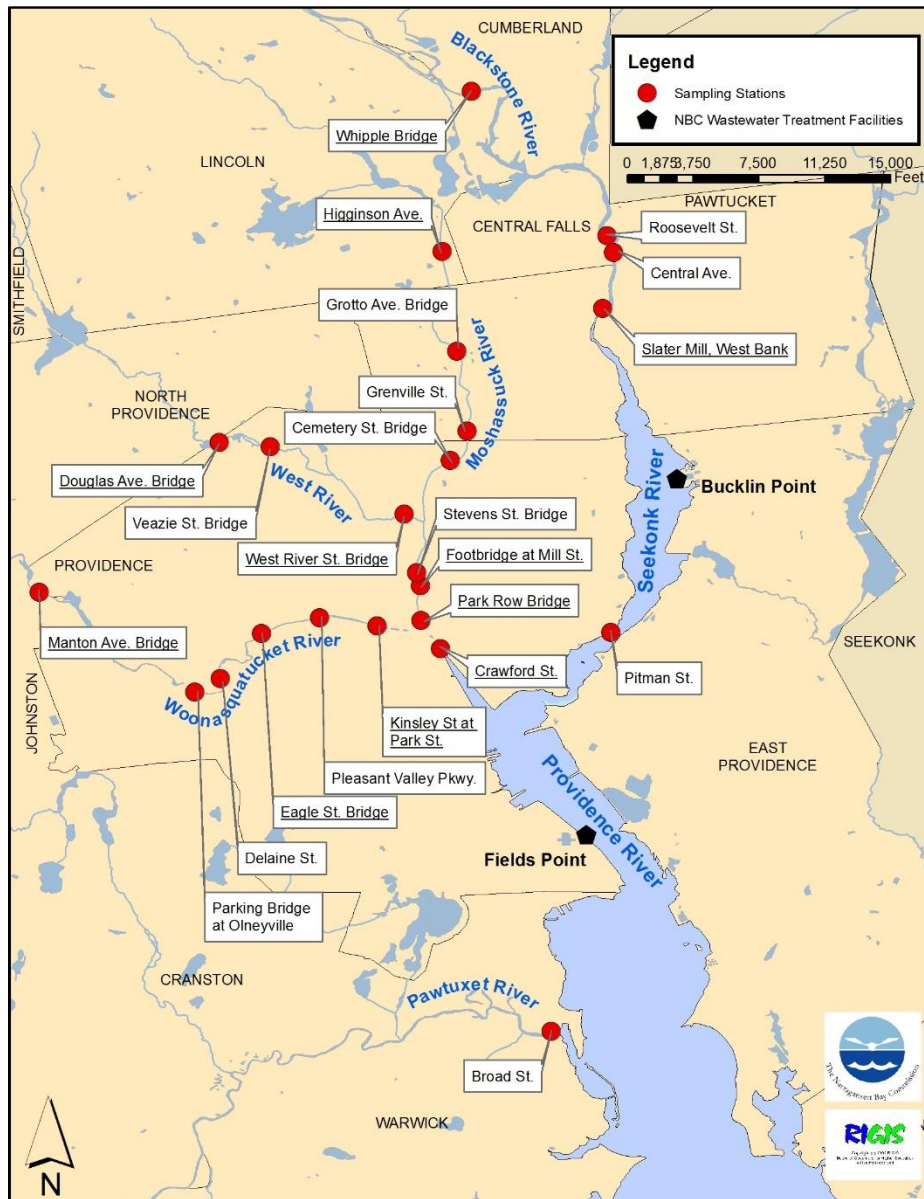
In order to improve the NBC's identification of dry weather overflow (DWO) discharges and to identify other sources of bacterial contamination in the rivers, in 2002 EM began resampling weekly river collections when high bacteria counts are observed. Rivers are not resampled when collections have occurred following wet weather, because high bacteria counts are expected due to the normal functioning of CSOs. When results from collections exceed the threshold of 1,000 MPN/100 mL and there has been dry weather (i.e., less than 0.1 inches of rain in the preceding four days), EM 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, bacteria level at background stations, and staff availability.

Water samples for fecal coliform and enterococci analysis are collected from the center of a bridge or from a riverbank. A sterile, 120-mL sample container is used for the sample collection. Collections from bridges are conducted by placing the sample container in an open-ended PVC cylinder with a small screw running through the cylinder body to hold the sample in place. A line is attached for lowering it into the water stream being sampled. There are two samplers – one for a 2-bottle configuration and another for a 4-bottle configuration. Samples collected from a riverbank are taken by dipping the sample container into the water stream by gloved hand. The sample is taken from the surface as close to the center of the water flow as possible.

Once the sample has been collected, the sample container is sealed and labeled with site ID, sample number, date and time of collection, and collector's initials. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. All samples are brought to the Laboratory for analysis to begin within the 8-hour holding time. If samples exceed the holding time, they are discarded and not analyzed. The analytical method used by the NBC Laboratory for fecal coliform analysis 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 uninoculated, freshly prepared media are incubated and analyzed in order to confirm the sterility of the media. Enterococci analysis is performed using the IDEXX Enterolert Method 1600 with Quanti-Tray 2000 enumeration system. The NBC Laboratory is EPA and Rhode Island Department of Health certified.

As part of EM's quality assurance for this program, collection and analysis of DI water field blanks and duplicate samples occurs on all regular sampling days. These collections and analyses

Figure 3: NBC River Bacteria Sampling Stations. Underlined stations are sampled for both fecal coliform and enterococci. All other stations are sampled only for fecal coliform.



may be used to help determine analytical and sampling accuracy and precision. Field blanks are collected as described above for nutrients sampling. Duplicate samples are collected from specific sampling locations on each regular sampling day. These sampling locations are Eagle St. Bridge (W7C) in Providence on the Woonasquatucket River, Footbridge at Mill St. (M5) in Providence on the Moshassuck River, and Grenville St. (M4A) on the Moshassuck River. The Eagle St. Bridge sampling is conducted from a bridge in the center of the main current flow. The Footbridge at Mill St. site sampling is conducted from the center of the main current flow from the private footbridge near Mill Street. Sampling at the Grenville St. site is conducted from the

road, using a telescoping pole device to reach the center of the main current flow. The duplicate samples are taken simultaneously with the sampling device, by securing two bottles into the device at the same time. Fecal coliform data for the sampling stations located in the urban rivers can be found in the attached Table 37. Enterococci data for the urban rivers can be found in Table 38.

Bay Pathogen Monitoring

Fecal coliform sampling in the estuarine 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; sampling for enterococci at a subset of bay sites began in 2011. Routine sample collections for the analysis of bacteria are conducted every other week, usually on Wednesdays or Thursdays, throughout the year, dependent on weather. All station samples are collected within a three-hour period on the same day. In the event of a holiday or any other unforeseen circumstance that would prevent sampling under the regular schedule, the sampling will resume on the next possible regular workday. Samples are collected by EM staff and delivered to the NBC Laboratory no later than 12:00 PM on the day of sampling.

Bay bacteria samples are collected from the NBC research vessel the *R/V Monitor* at six sites in the Seekonk River and fourteen sites in the Providence River, as shown in Figure 4. Under special circumstances, including after some heavy rain storms, special sampling may take place which includes collecting bay bacteria 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 circumstances, the sample stations may include all or some of the usual stations and/or additional stations further down the bay.

Bay water samples for bacteria are collected by placing a sterile 120-mL sample container in an open-ended plastic cylinder. The sample container is held in place via 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. The sample is collected from just below the surface, then the sample container is sealed and a label with site ID, sample number, date and time of collection, and preservation method is placed on the container. The samples are held in a portable cooler with ice packs for transfer to the NBC Laboratory. All samples are brought to the Laboratory for analysis 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 sample bottle. A blank sample using DI water is also collected and brought to the Laboratory along with the bacteria samples for quality assurance purposes. Bay bacteria are analyzed according to methodology described in the above section on freshwater river bacteria analysis. During 2020, 382 bay fecal coliform samples and 134 bay enterococci samples were collected and analyzed. 2020 bay fecal coliform and enterococci data are shown in the attached Tables 39 and 40, respectively.

Figure 4: NBC Bay Bacteria Sampling Stations. Underlined stations are sampled for both fecal coliform and enterococci. All other stations are sampled only for fecal coliform.



Combined Sewer Overflow Monitoring

In support of the NBC’s mission to protect Narragansett Bay and its tributary rivers, and to fulfill the requirements of the EPA and DEM Nine Minimum Controls Program (which implements technology-based measures to reduce the impact of CSOs on receiving water quality), the EM staff samples CSO wet weather overflows several times per year. The aim of such wet weather sampling is to characterize the water quality of CSO discharges and to evaluate the success of the NBC Pretreatment and Pollution Prevention programs at controlling the discharge of pollutants through CSOs. In addition to the Pretreatment and Pollution Prevention programs, the NBC CSO Abatement Project, once fully implemented, will further reduce CSO impacts by eliminating 98% of CSO discharges. Until both the CSO Abatement Project and the EPA’s Capacity,

Management, Operations, and Maintenance program (an element of the Nine Minimum Controls Program) for the NBC are fully implemented, all other feasible controls of CSO discharge are expected to be utilized.

In 2020, wet weather monitoring was conducted at three different CSOs: Outfall 002A (Bucklin Point North Diversion Structure), Outfall 048 (Atwells Ave.), and Outfall 220A (Esten Ave. near Moshassuck St.). Sampling at both Outfall 048 and Outfall 220A took place on August 4th, during Tropical Storm Isaias with 0.19 inches of rainfall as measured by the National Weather Service at T.F. Green Airport (0.14 inches measured at Field's Point). Outfall 220A is located in the Bucklin Point service district, and discharges to the Moshassuck River, while Outfall 048 is located in the Field's Point district and discharges to the Woonasquatucket River. Sampling at Outfall 002A took place on November 23rd, during 1.37 inches of rainfall as measured by the National Weather Service at T.F. Green Airport (1.58 inches measured at Field's Point). Outfall 002A is located in the Bucklin Point service district, and discharges to the Seekonk River.

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. Sampling of Outfalls 002A, 048, and 220A successfully included all three phases. Each sample was tested for BOD, TSS, metals, bacteria, nutrients, and VOCs. Analysis of CSO samples is done according to the methods described above for plant samples. The data for CSO 048 can be found in Table 41, data for CSO 002A can be found in Table 42, and data for CSO 220A can be found in Table 43.

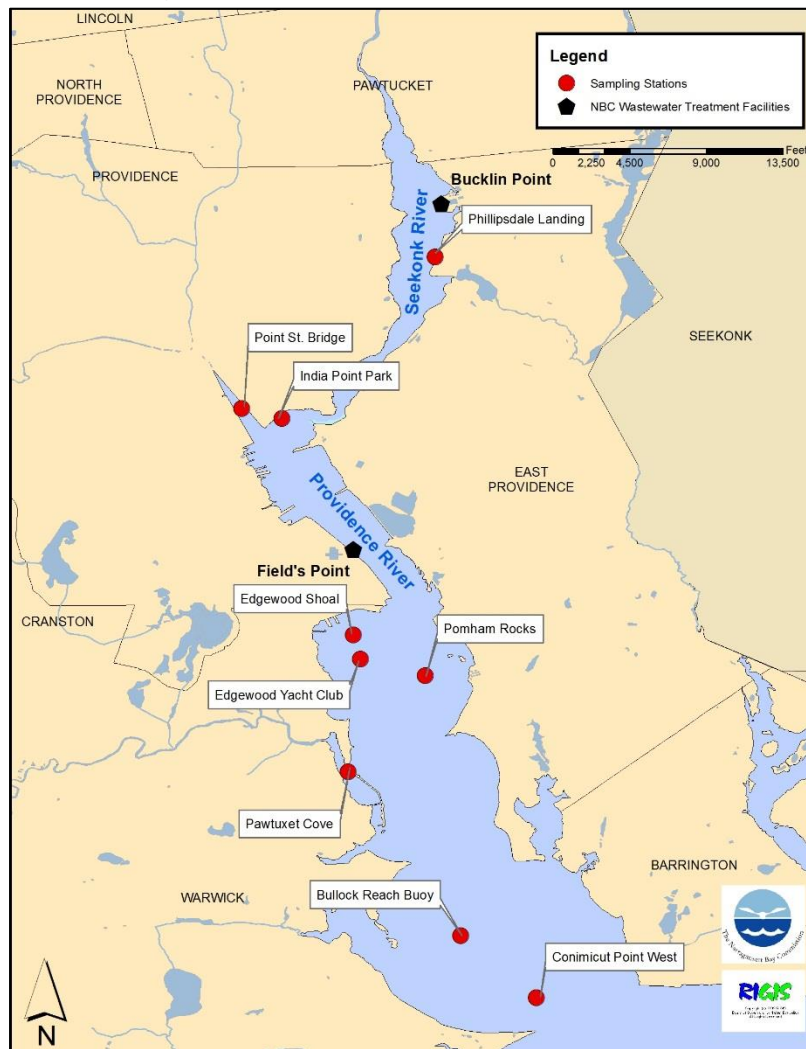
Water Column Profile Monitoring

In 2007, the NBC began measuring water quality profiles at bay sites using a Seabird Electronics profiler (SBE 19 plus). In 2020, the NBC upgraded to a newer model SBE 19 plus V2. This instrument measures depth, temperature, salinity, dissolved oxygen, density, fluorescence, and photosynthetically active radiation (PAR) four times per second as it is lowered through the water column at each site, providing valuable information on how water quality varies with depth. In particular, the data are evaluated to identify areas of stratification, where the surface and bottom waters are poorly mixed. Such conditions are normal in estuaries, particularly near freshwater inputs and in the summer, when surface waters are warmed by the sun and winds tend to be low. Stratified conditions are monitored as they can contribute to hypoxia in estuarine waters by preventing dissolved oxygen mixing from the surface to the bottom waters. These profiles also provide valuable information on water clarity, through measurements of PAR, or the amount of sunlight, at depth. The PAR measurements on the profiler are coupled with data from a PAR sensor on deck, measuring ambient sunlight strength above water. Deployment of the profiler includes a "surface soak" of several minutes well-below the surface to ensure the instrument temperature equilibrates to the ambient water temperature and all air has been purged from the flow path tubing. Following the surface soak, the profiler is brought up to the surface before dropping for the full downcast. The Seabird instrument is cleaned and maintained after

each deployment by trained NBC monitoring staff and sent back to the manufacturer every two years for servicing.

All data downloaded off the profiler are analyzed using a set of steps recommended and provided by the manufacturer to align data based upon known sensor time response differences, filter out digital “noise,” correct for thermal impacts on salinity data, and derive calculated parameters. Data are visually inspected by the NBC LIMS Data Coordinator to exclude the surface soak data before bin-averaging the downcast by 0.25 meter increments. This bin-averaging interpolates a smooth profile and produces a more manageable amount of data for public presentation on the Snapshot website, where the 2020 data and all historical data are available for download. Stations where water column profiles are conducted are shown in Figure 5.

Figure 5: NBC Water Column Profile and Secchi Depth Monitoring Stations



Secchi Depth Monitoring

The NBC has been conducting Secchi depth water clarity monitoring at sites in the Providence and Seekonk Rivers since 2009. This monitoring consists of lowering a black and white disk through the water column and noting the depth at which it is no longer visible, then lifting slowly and noting the depth at which it becomes visible. These steps are repeated three times per site and averaged. The measured depth varies depending on the turbidity of the water column, or the amount of suspended materials in the water. Suspended materials may include soil particles (clay, silt, and sand), algae, and materials from anthropogenic sources including waste discharge and urban runoff. High turbidity reduces the amount of light available for photosynthesis by algae and submerged aquatic plants and can ultimately lead to decreased oxygen levels in the water. Suspended materials can also affect aquatic organisms by clogging fish gills, impacting egg and larval development, lowering growth rates, and reducing disease resistance. The NBC collects Secchi depth measurements weekly on the same days and at the same sites as Bay Nutrients (Figure 2) monitoring and Bay Pathogen (Figure 4) monitoring boat trips. In 2020, the NBC collected 187 Secchi depth measurements in the Providence and Seekonk Rivers. These data can be found in Table 44.

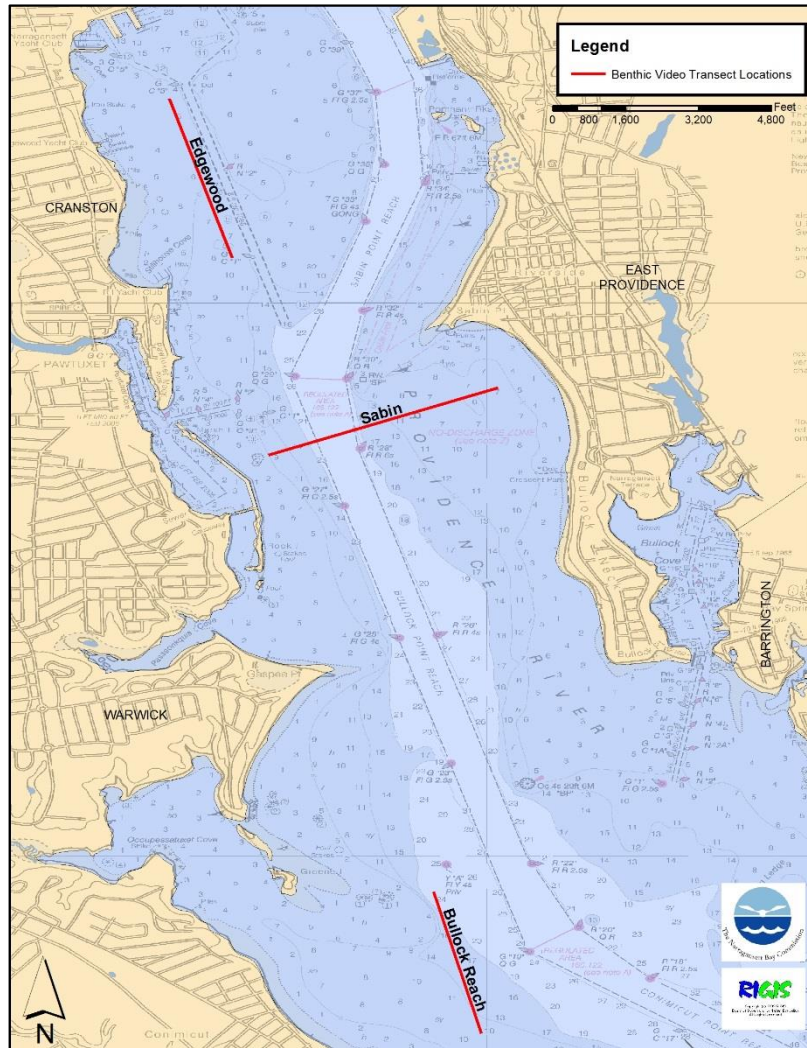
Benthic Video Monitoring

In 2011, the NBC purchased a SeaViewer Sea-Drop analog underwater video camera for the purposes of viewing and monitoring the benthic conditions in the Providence River in relation to plant upgrades and improved quality of WWTF effluent. A specialized sled mount was created to enable smooth towing of the camera and provide a consistent field of view for observations. In late 2014, the NBC designated three permanent transects to target in benthic surveys to be conducted monthly, weather permitting. The locations of these transects can be seen in Figure 6. In 2017, two underwater lasers were added to the sled to provide a measure of scale in the footage. Underwater lighting is also utilized as often as possible to help improve visibility.

In 2020, the NBC collected approximately eight hours of underwater footage along these three transects, continually improving field methods and refining this monitoring initiative. Following a shellfish transplant project conducted on September 24th, an additional two hours of underwater footage was collected to document the possible impacts of the shellfish transplant activities. The videos reveal a diverse community of estuarine organisms living in the Providence River including fish, crustaceans (e.g., mantis shrimp, spider crabs, hermit crabs), horseshoe crabs, sea stars, 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, and areas of rafting macroalgae.

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. Summaries of each survey, with screenshots of interesting observations, are made available to the public via the NBC's Snapshot website after analysis. Additional detail and video files are available upon request.

Figure 6: NBC Benthic Video Transect Locations



Phytoplankton Monitoring

The NBC began monitoring of the phytoplankton community at the Bullock Reach site in the Providence River in 2012. Phytoplankton are microscopic plant-like organisms that form the base of the marine and estuarine food web. These organisms use nutrients in the water column and sunlight to photosynthesize, producing dissolved oxygen in the process. The NBC initiated this monitoring program to measure changes to this important community that may be related to the drastic nitrogen reductions made by the NBC and other WWTFs in the Narragansett Bay watershed. Monitoring is conducted every two weeks as weather and staffing allows and includes a whole water sample to measure the density of various phytoplankton groups as well as a concentrated sample collected using a plankton net to identify the diversity of phytoplankton in the sample. From the whole-water sample, a single milliliter is extracted and all phytoplankton are identified and counted. From the concentrated sample, a subsample is examined under the microscope with each different group recorded. All identifications are made by the NBC's trained biologist. In 2020, the NBC collected five sets of phytoplankton samples. Data from this sampling may be found on the NBC Snapshot website, discussed below.

Narragansett Bay Fixed-Site Water Quality Monitoring

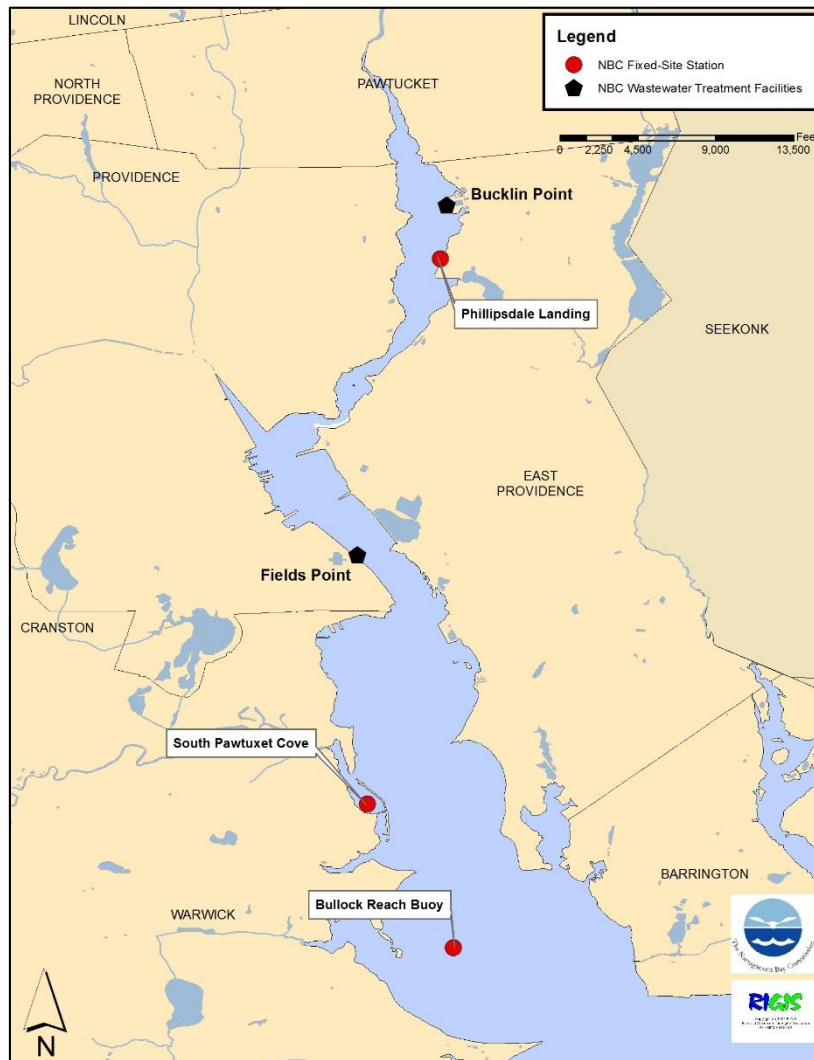
The NBC routinely maintains two estuarine fixed-site water quality monitoring stations, one in the Providence River and one in the Seekonk River. These stations were established in 2000 as part of a former EPA-grant-funded “Environmental Monitoring for Public Access and Community Tracking” (EMPACT) Project. NBC has maintained full funding of these sites since federal grant funding ceased in 2002. The stations were established in proximity to the Field’s Point and Bucklin Point WWTF outfalls. The Bullock 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. During the summer of 2020, an additional temporary site was maintained in the southern portion of Pawtuxet Cove, adjacent to the Providence River. This site was added to support data collection for the URI and NBC collaborative Regional Ocean Modeling System (ROMS) project, which models bay circulation and nutrient transport to predict algal bloom dynamics and oxygen levels in the Bay. The locations of these fixed sites are shown in Figure 7. These monitoring stations directly benefit Narragansett Bay research by collecting continuous, real-time water quality monitoring data in the more urbanized portions of the upper Bay enabling Bay researchers to consistently track changes in the estuaries from remote locations. These data also provide a baseline of water quality data across seasons and reveal yearly trends. The two routine locations are part of the Narragansett Bay Fixed-Site Monitoring Network (Fixed-Site Network) of water quality instruments deployed throughout the entire Bay and maintained by multiple agencies.

The NBC historically used 6600-series YSI water quality sondes to collect measurements of depth, temperature, salinity, pH, dissolved oxygen, turbidity, and fluorescence (a proxy for chlorophyll and phytoplankton activity) at each fixed site since the project began. In 2018, the sondes at Bullock Reach were upgraded from the 6600-series equipment to the newest YSI EXO technology; Phillipsdale Landing sondes were upgraded to EXO technology in 2019. The 2020 temporary fixed site also utilized EXO equipment.

YSI sondes (EXO and 6600-series) are typically calibrated the day before deployment for each site at the EM Laboratory in the Water Quality Sciences Building (WQSB) at Field’s Point. 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 EM staff. Sondes are designated for each specific site, deployed, and then retrieved after approximately two weeks in the water. Upon return to the EM lab, sondes undergo post-deployment checks, which consist of placing the sonde probes in each calibration solution, as done during calibration, to check readings in that solution of known concentration. These 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-deployment check, sondes are cleaned and stored, then re-calibrated just before the next deployment period. Calibration and post-deployment check results are recorded and kept for reference and data editing purposes.

Once at the deployment site, the first readings of the newly deployed sondes are observed for any suspect readings by comparing to the last readings of the retrieved sondes and a hand-held sonde suspended at the same depth. If any problems are observed in the data, an attempt is made to

Figure 7: NBC Fixed-Site Station Locations



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 to aid in any troubleshooting during data editing. During sonde deployments and retrievals, grab samples are collected from all sonde depths to be analyzed for chlorophyll and phaeophytin. Methods for sample collection, filtration, preservation, and analysis are as described above for the Nutrients monitoring initiative. These samples are collected to facilitate potential post-calibration of sonde chlorophyll readings to the concentrations measured in the grab samples, to give researchers a more accurate picture of phytoplankton dynamics in these waters.

Data measurements by the water quality instruments are recorded every 15 minutes and transmitted via cellular communications from Bullock Reach and via LAN-line connection from Phillipsdale Landing to a base station at Field's Point every hour. Data at the temporary site were also collected every 15-minutes, though they were not transmitted, rather, they remained saved to the instruments until download at the EM Laboratory upon retrieval.

The EM and TAC staff are continually making improvements to equipment, infrastructure, and QA/QC protocols to ensure the reliability of data collected. As part of the Fixed-Site Network, EM and TAC currently work in partnership with the DEM, URI, and the Narragansett Bay National Estuarine Research Reserve (NBNERR) under a Quality Assurance Project Plan (QAPP) that sets standard operating procedures for calibration and maintenance of the sondes as well as data handling to maintain consistency between organizations. The DEM maintains a website which allows easy access to data from each of the fixed sites in one central location (<http://www.dem.ri.gov/programs/emergencyresponse/bart/stations.php>). The DEM Bay Awareness and Response Team (BART) website currently displays a map showing station locations, weekly summaries of data from all network sites, and historical Fixed-Site Network data in raw, edited, and corrected formats (note data from recent years are not always available if review is still underway). In addition to the DEM BART website, the NBC also shares the data from Bullock Reach and Phillipsdale on its Snapshot website. Raw data are available on Snapshot in near real-time in an easy-to-use and easy-to-understand format, including downloadable data tables. The raw and edited data are also packaged and sent to the Fixed-Site Network Quality Control Officer annually, following an internal NBC data review. Fixed-site data are not included in this Environmental Monitoring Data annual report due to the extensive nature of this sampling, but they are easily accessible via the websites named above. Chlorophyll and phaeophytin grab sample data collected in association with the fixed-sites are included in Table 36, with chlorophyll and phaeophytin data collected as part of the Nutrients monitoring initiative.

As WWTFs reduce nitrogen input into the Bay, monitoring water quality can help researchers better understand ecological responses to these reductions. For instance, nitrogen is often associated with eutrophication and hypoxia. Hypoxia is the condition where dissolved oxygen concentrations fall below a critical level, negatively affecting marine or aquatic organisms. As part of the Fixed-Site Network, the NBC supports the understanding of the overall health of NBC's receiving waters and contributes to monitoring 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 in real-time from its two fixed sites, NBC staff can immediately determine when hypoxia is occurring and for how long. These data are extremely helpful for the NBC, DEM, and other organizations in studying the dynamics of these events and how the organisms in the Bay respond.

Phillipsdale Landing Dock Site

The Phillipsdale Landing fixed-site is located on the east side of the estuarine Seekonk River in East Providence. The monitoring location is very close to large freshwater river sources and is also open to the tidal estuarine Providence River. 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 at the northern terminus, and the Ten Mile River, which enters the Seekonk River just south of the Phillipsdale Landing station. The Phillipsdale Landing site is located in about 3.5 meters (11.5 feet) of water, just south of the Bucklin Point WWTF. YSI sondes collect water quality data from two depths, one near the surface at approximately 0.6 m, and one just off the bottom at approximately 2 m. With these instruments attached to a dock, staff has easy access to the instruments from shore, allowing them to get to the instruments quickly in the event of any problems. The surface sonde measures depth, water temperature, specific conductance (and salinity), pH, dissolved oxygen, and chlorophyll *a*. The bottom sonde measures depth, water temperature, specific conductance, pH, and dissolved oxygen. For the 2020 season, the sondes were first deployed on March 19th, 2019 and continued collecting data until they were removed on December 16th, 2020.



Environmental Monitoring staff calibrating sondes prior to deployment at a fixed-site station.

Bullock Reach Buoy Site

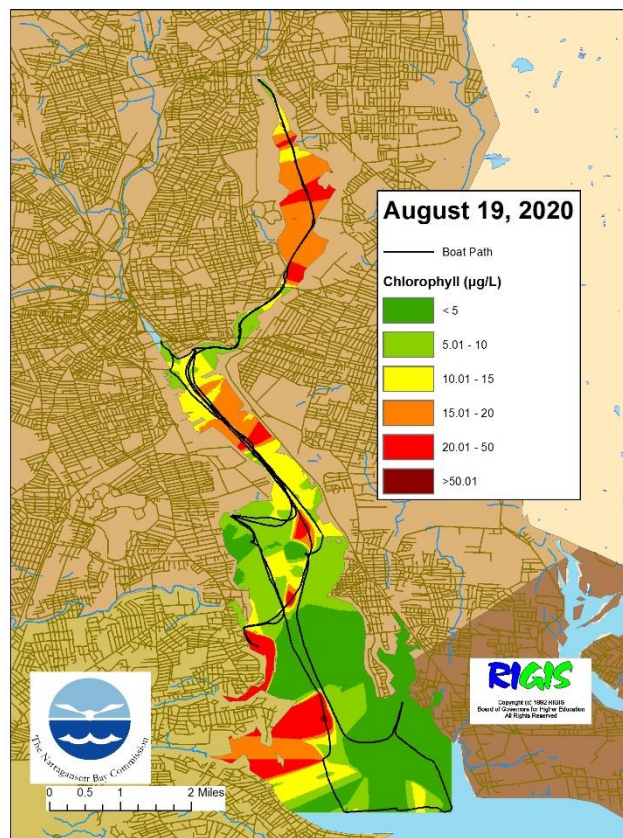
The Bullock Reach Buoy site utilizes a floating buoy that is anchored near the edge of the shipping channel in the southern section of the Providence River. This location is in deeper, more saline waters than the Phillipsdale Landing station and is further from freshwater sources. The nearest major freshwater source is the Pawtuxet River, located to the northwest of the buoy site. The position of the buoy is north of Conimicut Point in about 8 meters (26 feet) of water, west of the Providence River channel and south of the Field's Point WWTF. There are three water quality instruments at this site, deployed at the surface (approximately 1 m), mid-water (approximately 4 m), and bottom (approximately 8 m). The surface YSI sonde is deployed in a PVC tube that is integrated into the buoy. 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 each sonde to keep them in an upright position. Each of the three sondes measure depth, water temperature, specific conductance (and derived salinity), pH, dissolved oxygen, chlorophyll *a*, turbidity, and total dissolved solids. The buoy is also outfitted with meteorological instrumentation, collecting data on wind speed and direction, temperature, and humidity. Power to the buoy is maintained by a solar-powered battery. For the 2020 season, the buoy was deployed in the water in mid-May; data collection began on May 19th until the sondes were removed for the season on November 17th.

2020 Temporary Site

A temporary water quality monitoring location was active during 2020 in order to provide further site-specific data to inform the URI and NBC ROMS project. The temporary site was operational in Pawtuxet Cove, adjacent to the Providence River, from July 8th until November 17th. This site consisted of a single YSI sonde that internally logged data every 15 minutes. This sonde was changed out for maintenance every two weeks, at which time the logged data were downloaded at the EM Laboratory. The surface sonde was located at an approximate depth of 0.5 m and the parameters measured included water temperature, specific conductance, salinity, depth, pH, chlorophyll, and dissolved oxygen.

Bay Surface Mapping

In 2010, the NBC began a receiving waters monitoring effort to map surface water quality as the research vessel conducts bay monitoring throughout the Seekonk and Providence Rivers. As the boat is underway, a pump draws surface water up and through a water quality YSI XLM650 sonde on the deck, which collects data every four seconds. This sonde is calibrated and maintained as described above for the fixed-site monitoring sondes. The sonde collects data on temperature, conductivity, dissolved oxygen, pH, and chlorophyll *a*. The current focus of the monitoring effort is on the chlorophyll *a* data, as a proxy for phytoplankton abundance. The data are analyzed to create maps of chlorophyll concentration along the boat track to illustrate presence and distribution of phytoplankton blooms. Chlorophyll *a* data are processed and mapped using the ArcGIS suite, interpolating values using an inverse distance weighted methodology looking at the 12 nearest neighbors. The interpolation of data all the way to the shoreline is for visual clarity, though is also highly artificial. In 2020, the NBC mapped surface water quality on 31 days. Surface maps of chlorophyll data are posted to the Snapshot website, while the full datasets are available upon request.

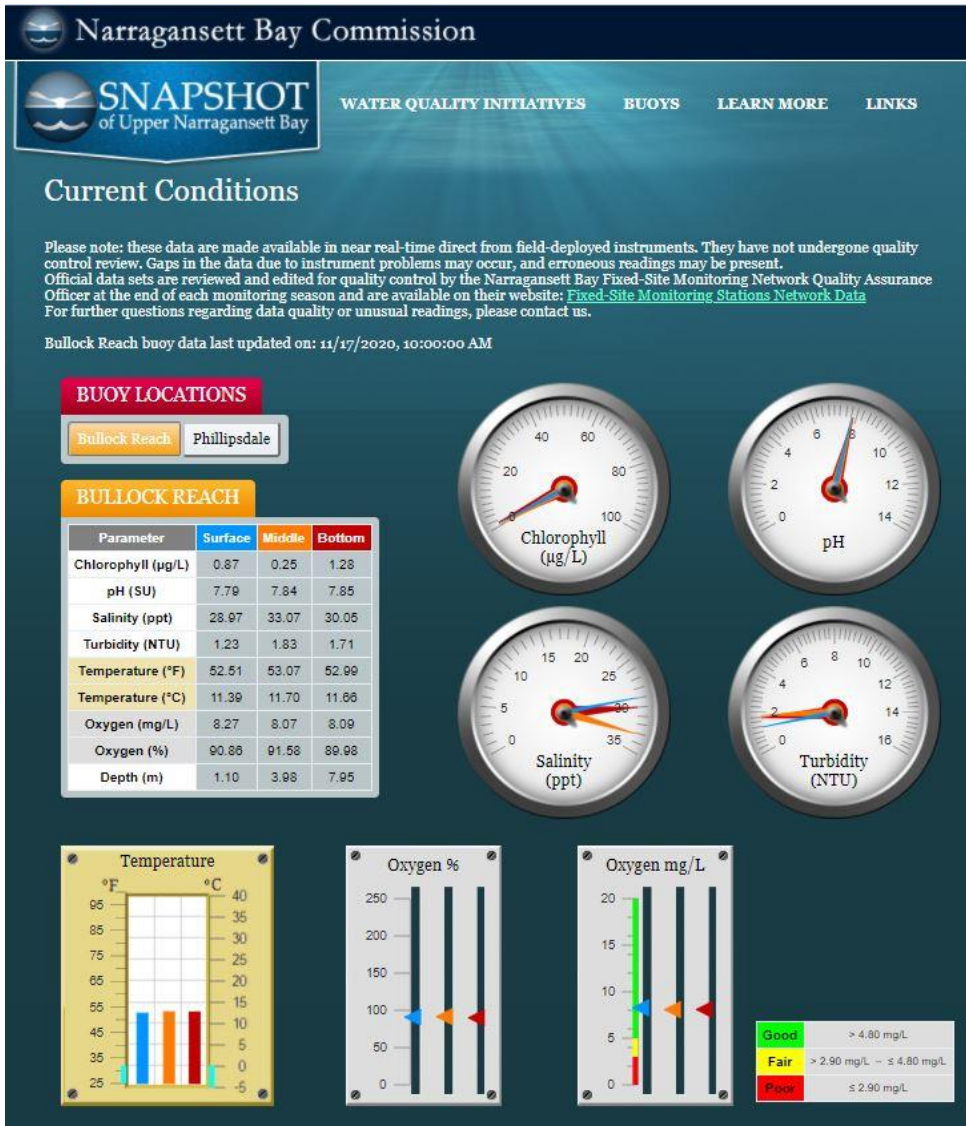


*An example of a chlorophyll *a* map from surface mapping on August 19, 2020*

NBC Snapshot of Upper Narragansett Bay Website

As discussed in several sections above, the NBC hosts a webpage, launched in 2011, called “Snapshot of Upper Narragansett Bay” (<http://snapshot.narrabay.com/app/>), where almost all of the results of receiving waters monitoring are shared with the public. This site was continually updated through 2020 with data postings and a blog that is updated weekly with the most recent results of sampling events. Sampling procedures are described for each monitoring initiative and tables with up-to-date monitoring results can be downloaded. The most recent data at the fixed-site water quality monitoring stations is displayed through dials and gauges as shown in Figure 8 below. This display allows users to quickly assess current water quality conditions. An interactive interface allows users to choose fixed-site 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 NBC 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 8: Fixed-Site Dashboard view on the NBC’s “Snapshot of Upper Narragansett Bay” Website.



**Field's Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
1/1/2020	60.06	20.4	2.0	60.06	81	97.59	3.8500	3.09
1/2/2020	43.34	15.5	2.0	43.34	98	138.12	3.4000	3.35
1/3/2020	44.24	11.4	2.0	44.24	116	134.71	4.9444	3.70
1/4/2020	50.41	32.7	2.0	50.41	92	110.20	3.9500	3.53
1/5/2020	45.13	10.1	2.0	45.13	94	113.05	4.1000	3.35
1/6/2020	40.43	12.4	2.0	40.43	111	137.10	5	3.32
1/7/2020	42.36	16.1	2.0	42.36	108.50	123.26	4.1500	3.43
1/8/2020	41.04	11.6	2.0	41.04	124	128.87	4.1000	3.15
1/9/2020	40.86	5.0	2.0	40.86	157.50	203.80	4.1000	3.38
1/10/2020	39.22	5.0	2.0	39.22	112	144.76	4.4000	4.45
1/11/2020	43.06	7.1	2.0	43.06	130	146.10	4.2500	3.88
1/12/2020	42.19	5.0	2.0	42.19	139	139.50	3.9500	3.96
1/13/2020	36.57	5.0	2.0	36.57	117.50	138.84	4.5500	3.73
1/14/2020	39.72	7.1	2.0	39.72	118	139.95	3.9500	3.30
1/15/2020	39.23	5.0	3.0	39.23	129.50	129.51	3.9500	2.61
1/16/2020	37.41	5.0	2.0	37.41	117	226.51	4.1500	3.14
1/17/2020	36.04	5.0	2.0	36.04	117	162.66	3.9000	3.38
1/18/2020	37.91	5.0	2.0	37.91	127	155.13	3.6500	3.29
1/19/2020	39.75	5.0	4.5	39.75	111	161.02	3.0500	3.40
1/20/2020	39.03	7.1	2.0	39.03	117	157.83	4	3.39
1/21/2020	36.77	5.0	2.0	36.77	130.50	159.25	3.6500	3.43
1/22/2020	35.41	5.0	2.0	35.41	125	184.68	3.6000	3.24
1/23/2020	36.82	5.0	2.0	36.82	140	189.90	3.1000	3.38
1/24/2020	35.85	5.0	2.0	35.85	127	173.76	3.1500	3.46
1/25/2020	52.87	5.0	2.0	52.87	198	172.62	3.1000	3.53
1/26/2020	48.43	8.7	2.0	48.43	86	150.78	4.0500	3.33
1/27/2020	37.06	7.1	2.0	37.06	101	180.34	2.9500	2.81
1/28/2020	35.53	8.8	2.0	35.53	110	143.67	2.8000	3.35
1/29/2020	37.31	5.0	2.0	37.31	116.50	208.85	2.7000	2.34
1/30/2020	37.21	5.0	2.0	37.21	124.50	169.72	3.0500	2.82
1/31/2020	36.39	7.1	2.0	36.39	143	177.72	3.2500	2.86
2/1/2020	33.55	5.0	2.0	33.55	130	283.71	3.1500	3.39
2/2/2020	37.92	8.8	2.0	37.92	150	169.84	3.1000	2.94
2/3/2020	33.73	5.0	2.0	33.73	176.50	200.45	3.4000	2.96
2/4/2020	35.55	7.1	4.5	35.55	148.50	168.94	3.1500	3.23
2/5/2020	38.79	8.0	3.0	38.79	276	215.10	2.6000	3.21
2/6/2020	48.30	49.5	11.0	48.30	150	152.14	3	2.85
2/7/2020	42.33	5.0	2.0	42.33	146	183.17	4.1875	3.36
2/8/2020	38.84	5.0	2.0	38.84	103	154.53	2.7500	3.36
2/9/2020	37.26	5.0	2.0	37.26	104	155.62	3.2000	3
2/10/2020	37.86	7.1	2.0	37.86	160	183.94	2.3500	2.93
2/11/2020	48.47	10.0	2.0	48.47	133.50	157.05	3.1000	2.45
2/12/2020	47.20	9.7	2.0	47.20	141	169.33	2.5500	2.50
2/13/2020	63.78	10.1	2.0	63.78	86	115.52	3.8500	2.94
2/14/2020	38.38	5.0	2.0	38.38	121	161.57	3.5000	3.42
2/15/2020	38.08	5.0	2.0	38.08	110	154.47	3.4000	3.51
2/16/2020	40.62	5.0	2.0	40.62	101	155.86	3.0500	3.01
2/17/2020	40.47	5.0	2.0	40.47	130.50	140.37	4.2222	2.75
2/18/2020	39.16	7.1	2.0	39.16	154	177.20	2.3000	2.56
2/19/2020	35.40	5.0	2.0	35.40	119.50	185.72	3.0500	2.68
2/20/2020	36.22	7.1	2.0	36.22	129.50	177.18	3.0500	2.22
2/21/2020	36.01	5.0	2.0	36.01	126	157.29	2.9000	2.32
2/22/2020	34.89	7.1	2.0	34.89	121	177.06	2.7500	2.32
2/23/2020	35.66	5.0	2.0	35.66	130	145.14	2.6500	2.28
2/24/2020	35.87	5.0	2.0	35.87	146.50	175.03	3	2.12
2/25/2020	37.89	5.0	2.0	37.89	168	186.48	2.6000	2.20
2/26/2020	43.05	6.3	2.0	43.05	207	196.80	<2	2.39
2/27/2020	61.34	7.1	4.5	61.34	102.50	99.15	2.7000	2.24
2/28/2020	40.32	5.0	2.0	40.32	133	169.21	3	2.38
2/29/2020	35.07	5.0	2.0	35.07	113	184.13	2.8500	2.76
3/1/2020	37.28	7.1	2.0	37.28	128	150.66	3.5000	2.58
3/2/2020	35.89	5.0	2.0	35.89	135	149.78	2.2000	2.46
3/3/2020	45.80	8.7	2.0	45.80	180	151.09	2.5500	2.85
3/4/2020	33.98	5.0	2.0	33.98	110	133.60	2.3500	2.26
3/5/2020	34.72	5.0	2.0	34.72	134	170.37	2.3500	2.59
3/6/2020	37.16	5.0	7.8	37.16	126	137.09	2.2000	2.29
3/7/2020	32.44	5.0	2.0	32.44	106	161.96	<2	2.33
3/8/2020	38.90	5.0	2.0	38.90	136	161.59	<2	2.61
3/9/2020	35.57	5.0	2.0	35.57	185	167.42	2.7000	3.94
3/10/2020	32.47	5.0	2.0	32.47	183	179.04	2	3.63
3/11/2020	34.67	6.3	2.0	34.67	142	165.44	2.3500	3.01
3/12/2020	38.72	5.0	2.0	38.72	190.50	184.93	<2	2.38
3/13/2020	39.49	5.0	2.0	39.49	153	150.06	2.5000	2.80
3/14/2020	32.85	5.0	2.0	32.85	106	139.49	<2	2.58
3/15/2020	35.83	5.0	2.0	35.83	109	156.22	2.1000	2.78
3/16/2020	34.64	5.0	2.0	34.64	170	180.02	2.9000	3.43
3/17/2020	34.77	5.0	2.0	34.77	142	165.91	2	2.85
3/18/2020	37.22	5.0	2.0	37.22	134	149.96	2.2000	2.32
3/19/2020	62.69	5.0	4.5	62.69	110	118.34	3.0500	2.77
3/20/2020	39.79	5.0	2.0	39.79	104	145.74	<2	2.58
3/21/2020	32.75	5.0	2.0	32.75	98	137.94	<2	2.62
3/22/2020	34.82	5.0	2.0	34.82	103	146.83	<2	2.63

Table 1: Field's Point TSS, CBOD, and Bacteria Data

**Field's Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
3/23/2020	58.92	5.0	2.0	58.92	161	134.22	2.1000	2.73
3/24/2020	65.97	5.0	2.0	65.97	63	83.67	3.1500	2.32
3/25/2020	66.82	6.3	2.0	66.82	67	115.57	2.7000	2.77
3/26/2020	51.62	5.0	2.0	51.62	82	112.56	2.5000	2.62
3/27/2020	39.74	5.0	2.0	39.74	105	126.07	2.5500	2.94
3/28/2020	58.34	5.0	2.0	58.34	126	114.45	2.7000	3.03
3/29/2020	61.29	5.0	2.0	61.29	89	84.33	2.3000	2.59
3/30/2020	47.19	7.1	2.0	47.19	87	101.33	2.6500	3.04
3/31/2020	43.26	5.0	2.0	43.26	89	108.72	<2	2.81
4/1/2020	43.30	5.0	2.0	43.30	83	109.75	2.5500	2.57
4/2/2020	48.00	5.0	2.0	48.00	100	128.15	2.2500	3.09
4/3/2020	59.54	5.0	2.0	59.54	91	91.45	3.4000	2.75
4/4/2020	53.07	5.0	2.0	53.07	106	110.40	2.3000	2.54
4/5/2020	42.59	5.0	2.0	42.59	81	101.25	2.5000	2.64
4/6/2020	42.19	5.0	2.0	42.19	90	137.46	3.2000	3.61
4/7/2020	44.05	5.0	2.0	44.05	84	99.63	2.6000	2.64
4/8/2020	44.47	7.3	2.0	44.47	104	146.62	3.0500	2.75
4/9/2020	62.34	5.0	2.0	62.34	109	120.48	3.2000	2.68
4/10/2020	66.24	5.0	2.0	66.24	90	105.78	3.6000	2.65
4/11/2020	59.63	5.0	2.0	59.63	59.500	77.85	2.5000	2.65
4/12/2020	45.24	5.0	2.0	45.24	93	129.24	2.5000	2.63
4/13/2020	72.58	5.0	2.0	80.28	82	74.87	2.8500	2.59
4/14/2020	69.68	5.0	2.0	69.68	67	60.42	2.6500	4.54
4/15/2020	71.71	5.0	2.0	71.71	65	103.23	2.5000	2.80
4/16/2020	69.31	5.0	4.5	69.31	72	91.23	2.6000	2.24
4/17/2020	71.61	5.0	2.0	71.61	130	117.25	3.1500	2.28
4/18/2020	66.78	5.0	2.0	66.78	61	68.06	3.7500	2.52
4/19/2020	57.33	5.0	4.0	57.33	65	105.15	2.5000	2.16
4/20/2020	50.77	5.0	2.0	50.77	90	87.53	2	4.06
4/21/2020	60.24	5.0	2.0	60.24	97	83.90	2.3000	2.43
4/22/2020	60.37	5.0	2.0	60.37	73.500	78.60	2.3000	2.14
4/23/2020	49.44	5.0	2.0	49.44	114	128.21	2.7500	2.01
4/24/2020	55.24	5.0	2.0	55.24	114	115.58	<2	<2
4/25/2020	49.53	5.0	2.0	49.53	81	108.22	<2	<2
4/26/2020	55.43	5.0	2.0	55.43	102	109.89	3.4500	2.11
4/27/2020	65.16	5.0	2.0	65.16	76	79.92	2.6500	2.08
4/28/2020	47.03	5.0	2.0	47.03	94	114.48	<2	2.60
4/29/2020	48.35	5.0	2.0	48.35	110	128.31	<2	2.35
4/30/2020	65.01	7.1	2.0	65.01	101	110.12	2.5500	2.47
5/1/2020	76.38	5.0	2.0	76.38	87	69.96	<2	2.68
5/2/2020	69.24	5.0	2.0	69.24	70	70.63	2.5000	3.06
5/3/2020	72.08	5.0	2.0	72.08	61	75.95	2.6000	3.34
5/4/2020	73.37	5.0	2.0	73.37	72	91.51	2.2000	3.46
5/5/2020	62.09	5.0	2.0	62.09	86	85.53	2.5000	2.50
5/6/2020	51.82	5.0	3.9	51.82	111.50	112.20	2.7000	2.62
5/7/2020	48.90	5.0	2.0	48.90	91	129.45	2.6000	2.64
5/8/2020	63.61	5.0	2.0	63.61	163	138.19	5.5000	3.32
5/9/2020	50.01	5.0	2.0	50.01	82	99.65	3.4500	2.29
5/10/2020	46.06	5.0	7.8	46.06	112	112.30	3.4000	2.70
5/11/2020	45.17	5.0	2.0	45.17	119	135.18	3.1500	2.64
5/12/2020	44.14	5.0	2.0	44.14	102.50	123.32	3	2.53
5/13/2020	42.40	5.0	3.0	42.40	112.50	157.25	2.5500	2.41
5/14/2020	45.69	5.0	2.0	45.69	148		2.8000	2.41
5/15/2020	49.08	7.1	2.0	49.08	165	144.59	4.4000	2.79
5/16/2020	41.05	5.0	2.0	41.05	85	137.50	<2	2.44
5/17/2020	45.53	5.0	2.0	45.53	103	126.92	2.9000	<2
5/18/2020	39.22	5.0	2.0	39.22	129	144.96	2.6500	2.12
5/19/2020	38.17	5.0	2.0	38.17	129	125.76	3	2.37
5/20/2020	38.32	5.0	2.0	38.32	129.50	138.22	2.4000	2.61
5/21/2020	41.28	5.0	2.0	41.28	134	148.68	2.3000	2.46
5/22/2020	40.36	5.0	2.0	40.36	173	169.42	2.9500	2.79
5/23/2020	37.33	5.0	2.0	37.33	130	149.75	2.6000	2.31
5/24/2020	38.37	5.0	2.0	38.37	117	117.22	2.6500	2.29
5/25/2020	36.66	5.0	2.0	36.66	120	128.44	2.5000	2.54
5/26/2020	36.85	5.0	2.0	36.85	142.50	146.30	<2	<2
5/27/2020	35.04	5.0	2.0	35.04	145	137.39	2.3000	2.20
5/28/2020	40.93	10.1	2.0	40.93	184	177.55	<2	2.58
5/29/2020	37.26	7.1	2.0	37.26	149	138.30	2.6000	3.17
5/30/2020	35.89	5.0	2.0	35.89	106	131.64	<2	2.98
5/31/2020	37.65	5.0	2.0	37.65	110	128.62	<2	2.17
6/1/2020	34.45	5.0	2.0	34.45	105	152.43	<2	2.04
6/2/2020	34.27	5.0	2.0	34.27	117.50	151.86	<2	2.55
6/3/2020	34.94	5.0	5.9	34.94	141.50	156.57	2.2000	3.15
6/4/2020	38.50	5.0	2.0	38.50	171	169.63	2.1500	3.99
6/5/2020	37.31	5.0	2.0	37.31	136	155.84	2.6000	3.59
6/6/2020	47.51	5.0	2.0	47.51	163	130.33	4.5833	4.94
6/7/2020	47.30	5.0	4.5	47.30	93	118.14	3.5500	3.59
6/8/2020	36.11	5.0	2.0	36.11	116.50	160.57	<2	3.66
6/9/2020	31.79	5.0	4.5	31.79	131	268.70	2.1000	3.56
6/10/2020	35.13	5.0	3.0	35.13	139	174.16	<2	3.73
6/11/2020	45.01	7.1	7.8	45.01	183	188.11	3.8000	3.68
6/12/2020	35.90	5.0	4.5	35.90	106	139.34	2.2500	3.56

Table 1: Field's Point TSS, CBOD, and Bacteria Data

**Field's Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
6/13/2020	30.98	5.0	2.0	30.98	105	162.08	<2	3.19
6/14/2020	33.91	7.1	4.5	33.91	124.50	143	<2	3
6/15/2020	31.64	7.1	2.0	31.64	150.50	173.35	<2	2.63
6/16/2020	31.77	5.0	2.0	31.77	139.50	177.35	2.0500	3.73
6/17/2020	33.14	5.0	7.0	33.14	151	184.80	2.0500	2.15
6/18/2020	33.55	5.0	4.0	33.55	163	190.67	<2	2.08
6/19/2020	30.37	5.0	2.0	30.37	153	180.03	<2	2.56
6/20/2020	29.26	5.0	4.5	29.26	156	205.50	2.0500	2.98
6/21/2020	33.04	5.0	6.8	33.04	150.50	198.06	<2	2.19
6/22/2020	31.24	5.0	4.0	31.24	177	205.49	<2	2.78
6/23/2020	32.49	5.0	7.8	32.49	141	202.08	<2	2.43
6/24/2020	32.80	5.0	2.0	32.80	153	260.31	<2	2.56
6/25/2020	33.72	5.0	4.5	33.72	158	152.94	2.3000	2.11
6/26/2020	30.86	5.0	2.0	30.86	152	192.16	2.8500	2.49
6/27/2020	43.73	7.1	4.5	43.73	188	137.93	5.4630	2.72
6/28/2020	49.20	5.0	2.0	49.20	154.50	112.84	2.5000	2.81
6/29/2020	43.04	7.1	2.0	43.04	154.50	137.21	2.4000	2.71
6/30/2020	41.62	5.0	2.0	41.62	251	155.98	2.6500	2.63
7/1/2020	38.72	5.0	2.0	38.72	337	122.99	2.2666	2.79
7/2/2020	36.30	7.1	2.0	36.30	149	134.16	2.1500	3.19
7/3/2020	29.15	7.1	2.0	29.15	131	162.08	2.1500	3.14
7/4/2020	30.82	5.0	2.0	30.82	127	173.02	2.6000	3.51
7/5/2020	34.09	5.0	2.0	34.09	152.50	122.77	2.1500	3.41
7/6/2020	27.92	7.1	2.0	27.92	132	191.37	2.7333	3.26
7/7/2020	31.12	5.0	2.0	31.12	140	174.45	2.6875	3.19
7/8/2020	31.60	5.0	2.0	31.60	127	176.88	2.1500	3.88
7/9/2020	33.18	5.0	4.0	33.18	182	197.65	2.2353	4.43
7/10/2020	32.79	5.0	4.5	32.79	214	206.43	2.8500	4.40
7/11/2020	26.86	5.0	2.0	26.86	132	160.01	2.5000	4.04
7/12/2020	29.75	5.0	7.8	29.75	125.50	158.11	2.1500	4.78
7/13/2020	31.80	5.0	2.0	31.80	157.50	171.73	2.8500	3.91
7/14/2020	46.70	5.0	7.8	46.70	256.50	167.01	5.3000	3.73
7/15/2020	36.43	6.3	4.2	36.43	103	145.42	2.1333	2.67
7/16/2020	31.56	5.0	7.8	31.56	144	146.89	2.3333	3.49
7/17/2020	37.06	5.0	2.0	37.06	158	197.83	<2	3.03
7/18/2020	29.06	5.0	2.0	29.06	115	147.50	3.3500	3.79
7/19/2020	32.76	5.0	2.0	32.76	142.50	140.21	2.1666	3.90
7/20/2020	28.75	5.0	2.0	28.75	123	185.24	2.2500	3.61
7/21/2020	31.25	5.0	2.0	31.25	161	177.11	<2	3.34
7/22/2020	31.98	5.0	2.0	31.98	192.50	185.28	2.2500	3.53
7/23/2020	31.19	5.0	4.5	31.19	186	218.17	2.5000	4.48
7/24/2020	26.91	5.0	2.0	26.91	151	182.84	2.5500	2.67
7/25/2020	30.05	7.1	2.0	30.05	137	163.59	2.3000	3.80
7/26/2020	32.59	5.0	2.0	32.59	148	140.46	2.0500	3.71
7/27/2020	29.15	5.0	2.0	29.15	144	186.29	2.7000	2.95
7/28/2020	47.10	5.0	2.0	47.10	192.50	154.11	5.9334	4.44
7/29/2020	44.14	5.0	2.0	44.14	96.500	124.84	3.6000	3.11
7/30/2020	29.28	5.0	14.0	29.28	130.50	183.90	2.4000	4.73
7/31/2020	29.48	5.0	7.8	29.48	126	188	2.5000	4.38
8/1/2020	28.50	8.7	2.0	28.50	149	175.02	2.6000	4.50
8/2/2020	31.45	5.0	2.0	31.45	143	154.19	2.6500	3.71
8/3/2020	30.91	5.0	6.8	30.91	155.50	194.97	2.6000	4.79
8/4/2020	35.30	5.0	2.0	35.30	260.50	190.57	4.4000	4.32
8/5/2020	35.71	5.0	2.0	35.71	115	145.94	2.7058	4.39
8/6/2020	27.90	5.0	33.0	27.90	135	177.91	2.4500	4.20
8/7/2020	27.91	5.0	7.8	27.91	114	202.20	2.9000	4.37
8/8/2020	27.18	5.0	2.0	27.18	110	166.99	2.9500	4.04
8/9/2020	30.86	5.0	7.8	30.86	137	174.06	2.5000	3.52
8/10/2020	28.42	5.0	2.0	28.42	144.50	214.41	2.6000	4.20
8/11/2020	29.72	5.0	4.5	29.72	256.50	252.65	3.6000	3.92
8/12/2020	28.74	5.0	2.0	28.74	140.50	199.84	3.3000	4.10
8/13/2020	29.06	5.0	2.0	29.06	152	219.79	3.3000	3.97
8/14/2020	28.26	7.1	2.0	28.26	134	204.67	3.5000	3.96
8/15/2020	26.77	5.0	2.0	26.77	125	214.63	3.0500	4.32
8/16/2020	39.92	5.0	4.0	39.92	225.50	197.98	3.2500	4.22
8/17/2020	32.28	8.8	4.5	32.28	148	187.67	2.5500	4.21
8/18/2020	31.40	7.1	2.0	31.40	158	174.71	<2	3
8/19/2020	27.25	7.9	10.2	27.25	154	195.17	2.7000	2.59
8/20/2020	28.07	5.0	2.0	28.07	107.50	168.11	2.5000	3.32
8/21/2020	27.56	5.0	2.0	27.56	132	208.06	2.8000	3.66
8/22/2020	27.95	5.0	2.0	27.95	172	214.63	3.4000	4.74
8/23/2020	30.87	5.0	2.0	30.87	105.50	172.50	2.6000	4.77
8/24/2020	29.27	7.1	2.0	29.27	132	208.95	2.7000	4.11
8/25/2020	27.79	5.0	2.0	27.79	200	229.81	2.9500	4.05
8/26/2020	29.15	5.0	2.0	29.15	142	203.20	2.9500	3.47
8/27/2020	27.85	5.0	2.0	27.85	189	205.01	3.4500	3.15
8/28/2020	29.28	5.0	2.0	29.28	151	193.21	3.9000	3.81
8/29/2020	32.40	7.1	2.0	32.40	123	185.44	3.4375	4.32
8/30/2020	33.56	5.0	2.0	33.56	98.500	149.15	2.7333	3.30
8/31/2020	29.24	5.0	2.0	29.24	135	199.39	2.3750	2.12
9/1/2020	26.99	5.0	2.0	26.99	151	213.76	2.2500	<2
9/2/2020	37.43	5.0	3.0	37.43	192	199.17	3.7500	3.89

Table 1: Field's Point TSS, CBOD, and Bacteria Data

**Field's Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
9/3/2020	33.55	10.0	49.0	33.55	144	195.06	3.4500	3.06
9/4/2020	30.28	5.0	2.0	30.28	120	215.45	2.3500	3.22
9/5/2020	25.03	7.1	2.0	25.03	130	171.37	3.8621	2.47
9/6/2020	27.05	5.0	2.0	27.05	150	165.87	3.2000	2.34
9/7/2020	28.15	5.0	4.5	28.15	137	193.56	3.2500	2.90
9/8/2020	27.56	5.0	2.0	27.56	150	215.71	3.3000	2.91
9/9/2020	28.68	5.0	490.0	28.68	184	219.17	3.2500	3.29
9/10/2020	28.11	5.0	2.0	28.11	182	203.19	4.1000	3.93
9/11/2020	24.27	5.0	2.0	24.27	138	189.27	3.2000	3.52
9/12/2020	26.32	5.0	2.0	26.32	134	176.48	3.9000	2.66
9/13/2020	26.87	5.0	6.0	26.87	151	189.71	3.3111	3.26
9/14/2020	28.81	5.0	2.0	28.81	141.50	182.92	3.3750	3.37
9/15/2020	26.12	7.1	2.0	26.12	143	229.30	4.7143	3.18
9/16/2020	26.27	6.3	2.0	26.27	129	217.90	4	3.56
9/17/2020	28.62	19.4	33.0	28.62	143	224.03	3.4000	4.12
9/18/2020	25.67	7.1	2.0	25.67	171	236.23	4.6250	3.62
9/19/2020	26.07	5.0	2.0	26.07	133	201.31	3.4000	3.17
9/20/2020	28.58	33.4	4.5	28.58	142	218.82	5	3.14
9/21/2020	25.68	20.5	2.0	25.68	154	250.96	4.8944	3.81
9/22/2020	27.89	17.6	2.0	27.89	148	216.13	4.6250	3.27
9/23/2020	27.51	7.9	2.0	27.51	148	201.43	4.4800	4.21
9/24/2020	24.63	5.0	2.0	24.63	198	256.70	4.8750	4.17
9/25/2020	25.99	12.4	2.0	25.99	162	226.83	4.4500	4.28
9/26/2020	25.50	5.0	2.0	25.50	146	190.59	4.0500	3.74
9/27/2020	29.15	5.0	2.0	29.15	227	233.46	3.9000	3.83
9/28/2020	26.96	5.0	2.0	26.96	218	246.32	4.2000	3.30
9/29/2020	35.09	7.1	2.0	35.09	232	235.64	3.6500	2.79
9/30/2020	41.24	19.5	10.1	41.24	124	184.77	5.2174	3.03
10/1/2020	29.77	5.0	33.0	29.77	108	185.44	3.0500	2.66
10/2/2020	26.01	5.0	23.0	26.01	170	217.96	3.1000	2.79
10/3/2020	26.56	5.0	2.0	26.56	127	198.24	2.3500	2.46
10/4/2020	28.05	5.0	2.0	28.05	174	269.50	2.7500	2.33
10/5/2020	28.69	5.0	2.0	28.69	127	202.53	2.4500	2.11
10/6/2020	26.69	5.0	6.8	26.69	144.50	216.39	2.7500	2.28
10/7/2020	29.36	5.0	7.6	29.36	187	215.33	2.5000	2.49
10/8/2020	26.73	8.7	2.0	26.73	144	212.81	2.8500	2.05
10/9/2020	26.92	5.0	7.8	26.92	111	201.68	2.2500	4.11
10/10/2020	24.60	5.0	4.5	24.60	116	204.09	2.1500	2.05
10/11/2020	27.09	5.0	2.0	27.09	172	211.67	2.5000	2.49
10/12/2020	30.75	7.1	4.5	30.75	276	182.93	3.4000	<2
10/13/2020	55.94	8.7	33.0	55.94	110	143.82	4.7333	3.19
10/14/2020	28.44	5.0	9.0	28.44	117	194.70	2.8000	<2
10/15/2020	29.73	5.0	2.0	29.73	138	207.47	2.2500	<2
10/16/2020	55.43	5.0	11.0	55.43	219	179.46	4.8500	2.62
10/17/2020	61.85	14.3	7.8	61.85	73	84.49	5.3103	2.61
10/18/2020	50.01	10.0	2.0	50.01	63	83.59	3.3500	2.28
10/19/2020	48.55	10.0	17.0	48.55	96	125.55	2.4500	2.72
10/20/2020	36.06	7.1	2.0	36.06	150	170.99	3.1500	2.41
10/21/2020	28.93	5.0	3.9	28.93	102	180.28	2.8000	2.58
10/22/2020	29.94	5.0	2.0	29.94	132	193.04	<2	2.46
10/23/2020	26.19	5.0	2.0	26.19	161	259.32	2.2000	2.70
10/24/2020	28.39	7.1	4.5	28.39	125	196.72	2.6000	2.36
10/25/2020	27.62	5.0	2.0	27.62	143	211.29	2.6000	2.06
10/26/2020	26.29	5.0	2.0	26.29	137	223.26	2.9500	4.01
10/27/2020	28.89	5.0	2.0	28.89	177	215.10	2.4375	2.45
10/28/2020	31.58	5.0	2.0	31.58	201	208.42	2.9500	2.38
10/29/2020	62.67	5.0	2.0	62.67	105	88.38	6.4000	2.84
10/30/2020	58.43	5.0	13.0	58.43	77.500	115.68	3.2777	2.69
10/31/2020	48.33	7.1	7.8	48.33	78	147.04	3.5000	2.44
11/1/2020	53.24	17.6	2.0	53.24	119	125.45	3.3500	2.40
11/2/2020	46.65	8.8	2.0	46.65	68	128.82	3.5500	2.15
11/3/2020	38.02	7.1	2.0	38.02	102.50	148.45	3.8000	2.05
11/4/2020	30.31	6.3	3.7	30.31	123.50	205.11	3.9333	2.71
11/5/2020	31.65	7.1	2.0	31.65	123.50	146.98	3.2500	2.43
11/6/2020	29.12	7.1	7.8	29.12	138	172.43	3.1000	2.93
11/7/2020	29.03	5.0	2.0	29.03	130	175.17	2.3500	3.33
11/8/2020	31.31	10.0	2.0	31.31	125	172.58	2.7000	2.31
11/9/2020	30.43	5.0	2.0	30.43	139	204.78	2.2000	2.60
11/10/2020	28.43	5.0	2.0	28.43	178	193.03	2.6500	2.69
11/11/2020	32.71	5.0	2.0	32.71	205	186.18	2.4000	3.16
11/12/2020	30.39	5.0	2.0	30.39	149	199.07	2.4000	2.38
11/13/2020	33.25	5.0	2.0	33.25	135	174.26	2.5500	<2
11/14/2020	28.95	5.0	2.0	28.95	117	151.24	2.6500	2.04
11/15/2020	44.03	11.3	4.5	44.03	159	191.22	4.2000	2.21
11/16/2020	37.98	10.0	2.0	37.98	99.500	140.37	2.5000	<2
11/17/2020	29.66	5.0	2.0	29.66	107.50	185.50	2.7000	2.02
11/18/2020	28.28	9.1	2.8	28.28	140	176.50	2.1500	2.30
11/19/2020	31.18	5.0	2.0	31.18	124	178.50	2.3000	2.31
11/20/2020	28.47	5.0	2.0	28.47	133	207.51	2.2500	3.64
11/21/2020	27.39	5.0	2.0	27.39	139	190.64	<2	2.40
11/22/2020	38.68	5.0	2.0	38.68	191.67	242.99	<2	2.11
11/23/2020	64.16	8.8	2.0	64.16	189	92.15	5.6000	3.08

Table 1: Field's Point TSS, CBOD, and Bacteria Data

**Field's Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
11/24/2020	56.03	10.1	2.0	56.03	64	96.11	4.7333	2.64
11/25/2020	49.46	6.3	2.0	49.46	108	130.69	3.5500	2.74
11/26/2020	48.98	5.0	2.0	48.98	99	126.89	4.0667	2.65
11/27/2020	37.58	7.1	2.0	37.58	96	153.37	3	2.47
11/28/2020	30.37	5.0	2.0	30.37	113	168.26	3.2000	2.63
11/29/2020	35.03	5.0	2.0	35.03	137	201.91	3.5500	2.42
11/30/2020	67.94	5.0	2.0	85.07	129	98.07	9.9000	4.70
12/1/2020	71.76	10.1	6.8	71.76	45.500	74.84	10.900	4.12
12/2/2020	68.35	11.6	2.0	68.35	47.500	79.86	5.9334	2.63
12/3/2020	68.77	8.8	4.5	68.77	53.500	61.34	4.5500	2.34
12/4/2020	54.60	10.1	2.0	54.60	104	120.36	3.3000	2.29
12/5/2020	76.28	15.2	2.0	98.05	47	53.75	4.8484	2.59
12/6/2020	72.04	32.3	2.0	72.04	45.750	83.58	8.8750	3.61
12/7/2020	74.57	39.1	4.5	74.57	52.400	77.27	6.3750	2.85
12/8/2020	75.27	45.4	6.8	75.27	49.750	78.89	6.6428	3.18
12/9/2020	63.68	22.7	3.7	63.68	66.500	88.11	3.8000	2.29
12/10/2020	44.69	5.0	2.0	44.69	91.500	110.49	3.3000	2.56
12/11/2020	45.49	8.8	2.0	45.49	126.50	133.54	3.2500	2.31
12/12/2020	62.24	12.5	4.5	62.24	102	118.69	3.8500	2.15
12/13/2020	45.56	5.0	2.0	45.56	86	126.84	2.8500	2.66
12/14/2020	45.36	5.0	6.0	45.36	105	138.87	2.3500	2.08
12/15/2020	41.20	7.1	2.0	41.20	112	145.19	<2	2.04
12/16/2020	44.44	6.3	2.0	44.44	118.50	120.94	2.9500	<2
12/17/2020	39.56	7.1	2.0	39.56	114.50	142.99	2.6000	2.30
12/18/2020	39.41	5.0	2.0	39.41	134	157.13	2.5000	2.23
12/19/2020	38.58	5.0	2.0	38.58	108	140.92	3.4000	2.28
12/20/2020	41.94	5.0	2.0	41.94	111	142.24	2.4500	<2
12/21/2020	39.34	5.0	2.0	39.34	117.50	149.82	3.1500	4.06
12/22/2020	41.73	5.0	2.0	41.73	124	141.43	2.4500	2.41
12/23/2020	37.74	6.3	2.0	37.74	136	164.14	2.5000	<2
12/24/2020	62.29	7.1	2.0	62.29	196	141.41	2.9500	<2
12/25/2020	76.77	8.8	4.5	116.05	84	35.19	4.7500	2.17
12/26/2020	73.03	5.0	2.0	73.03	39	67.99	3.4500	<2
12/27/2020	72.74	15.2	2.0	72.74	46	80.04	2.9500	<2
12/28/2020	71.89	5.0	2.0	71.89	55.500	91.31	2.9000	2.18
12/29/2020	70.15	7.1	2.0	70.15	62.666	82.28	3.4500	2.20
12/30/2020	66.27	9.1	2.0	66.27	69.500	86.70	2.4000	<2
12/31/2020	52.20	7.1	2.0	52.20	110	115.58	2.5500	<2

Table 1: Field's Point TSS, CBOD, and Bacteria Data

Bucklin Point 2020 Wastewater Treatment Plant TSS, CBOD, Enterococci, and Fecal Coliform Data

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
1/1/2020	22.05	7.9	5.9	22.05	102	137.13	9.7142	2.03
1/2/2020	22.04	7.1	2.0	22.04	53.500	108.42	6.2666	<2
1/3/2020	22.47	12.4	13.0	22.47	141	156.27	7.8125	<2
1/4/2020	23.82	12.4	2.0	23.82	103	146.97	18.800	3.87
1/5/2020	25.34	7.1	4.5	25.34	78	119.10	6	<2
1/6/2020	21.91	7.1	2.0	21.91	104	171.47	5.2000	<2
1/7/2020	21.45	7.1	4.5	21.45	130	177.75	7.8000	2.41
1/8/2020	20.99	6.3	5.9	20.99	122	164.90	8	2.43
1/9/2020	19.69	5.0	4.5	19.69	142	219.05	13.100	3.13
1/10/2020	20.77	7.1	2.0	20.77	133	178.36	7.4666	3.38
1/11/2020	20.37	7.1	4.5	20.37	129	163.92	5.3142	2.29
1/12/2020	21.95	10.0	2.0	21.95	106	160.22	5.7500	3.06
1/13/2020	19.95	7.1	7.8	19.95	99	172.94	6.2000	3.56
1/14/2020	19.78	12.2	2.0	19.78	129	175.79	5.9500	2.89
1/15/2020	18.86	6.3	5.9	18.86	143	148.26	5.1000	2.68
1/16/2020	19.55	7.1	17.0	19.55	134	200.90	6.4000	3.26
1/17/2020	18.00	7.1	23.0	18.00	126	180.74	7.8000	3.38
1/18/2020	19.07	7.1	4.5	19.07	138	190.30	9	3.78
1/19/2020	20.10	7.1	2.0	20.10	130	213.38	8	5.05
1/20/2020	17.48	16.1	23.0	17.48	84	172.63	10.067	7.23
1/21/2020	18.29	10.0	49.0	18.29	106	188.80	19.800	10.59
1/22/2020	17.94	6.3	33.0	17.94	120	206.54	9	5.10
1/23/2020	18.27	7.1	6.8	18.27	117	204.19	6.7857	3.25
1/24/2020	17.56	12.4	2.0	17.56	139	211.36	5.9333	3.19
1/25/2020	28.00	7.1	2.0	29.54	174	236.22	7.0635	4
1/26/2020	18.99	7.1	11.0	18.99	225	221.17	7.6800	2.97
1/27/2020	18.55	7.1	23.0	18.55	103	158.67	6.5333	2.95
1/28/2020	18.31	7.1	7.8	18.31	112	258.35	6.6000	3.41
1/29/2020	17.15	10.0	3.9	17.15	79	199.59	5.6000	2.15
1/30/2020	17.07	7.1	4.5	17.07	131	256.59	5.5333	2.57
1/31/2020	17.50	7.1	2.0	17.50	134	238.18	6.1333	2.78
2/1/2020	18.30	5.0	4.5	18.30	129	223.36	6.0714	2.42
2/2/2020	17.94	7.1	2.0	17.94	132	222.43	5.8750	2.17
2/3/2020	17.99	7.1	2.0	17.99	144	250.97	6.3125	2.50
2/4/2020	17.89	7.1	2.0	17.89	179	281.80	6.1666	2.29
2/5/2020	18.06	6.3	2.0	18.06	129	228.62	6.5000	2.62
2/6/2020	28.99	10.0	4.5	29.13	212	258.80	8.5000	3.51
2/7/2020	25.85	7.1	6.8	25.85	146	233.90	8.2500	6.20
2/8/2020	17.64	7.1	2.0	17.64	114	204.18	6.0625	3.22
2/9/2020	18.02	7.1	2.0	18.02	110	236.16	5.2500	2.37
2/10/2020	18.93	5.0	2.0	18.93	138	245.69	5.8750	2.37
2/11/2020	28.34	5.0	2.0	28.34	186	229.78	6.1875	2.10
2/12/2020	17.74	22.7	10.1	17.74	109	189.23	7	2.63
2/13/2020	31.87	10.0	2.0	37.66	116	180.26	7.5625	2.75
2/14/2020	18.41	7.1	17.0	18.41	115	212.08	6.9375	3.02
2/15/2020	18.55	10.0	4.5	18.55	128	231.76	6	3.14
2/16/2020	19.43	5.0	2.0	19.43	109	227.60	5.7857	2.71
2/17/2020	18.62	5.0	2.0	18.62	130	209.24	5	<2
2/18/2020	21.31	5.0	2.0	21.31	130	212.26	4.3750	<2
2/19/2020	18.04	5.0	4.2	18.04	159	221.31	3.6875	<2
2/20/2020	18.02	5.0	4.5	18.02	133	195.04	4.8125	<2
2/21/2020	17.37	5.0	2.0	17.37	147	206.56	4.3750	<2
2/22/2020	17.55	5.0	2.0	17.55	143	247.82	4.4000	<2
2/23/2020	17.78	12.2	2.0	17.78	137	214.78	4.1500	2.06
2/24/2020	17.76	7.1	2.0	17.76	149	203.96	4.8750	2.03
2/25/2020	17.95	7.1	4.5	17.95	165	206.73	3.7000	<2
2/26/2020	18.01	7.9	5.5	18.01	165	240.50	4.4375	<2
2/27/2020	30.70	14.3	17.0	36.69	185	194.72	4.6875	2.37

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

**Bucklin Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
2/28/2020	17.68	7.1	2.0	17.68	125	234.61	5	2.03
2/29/2020	17.81	5.0	2.0	17.81	125	354.13	4.3500	<2
3/1/2020	17.09	5.0	2.0	17.09	112	327.39	4.5500	<2
3/2/2020	17.57	7.1	4.5	17.57	129	269.51	3	<2
3/3/2020	21.28	5.0	4.5	21.28	151	285.95	4.8500	2.18
3/4/2020	18.03	6.3	7.0	18.03	167	204.41	4.6500	<2
3/5/2020	16.54	5.0	2.0	16.54	125	208.59	4.1000	<2
3/6/2020	17.97	7.1	4.5	17.97	127	209.47	4.4500	<2
3/7/2020	17.72	5.0	7.8	17.72	128	214.02	4.3500	2.01
3/8/2020	16.86	5.0	4.5	16.86	150	311.31	4.3000	<2
3/9/2020	16.54	5.0	2.0	16.54	155	237.83	4.1000	2.18
3/10/2020	16.92	7.1	11.0	16.92	141	205.90	3.7000	<2
3/11/2020	16.23	5.0	2.0	16.23	145	210.74	4	<2
3/12/2020	16.79	5.0	6.1	16.79	153	275.51	5.5000	<2
3/13/2020	23.57	5.0	4.5	23.57	184	227.02	5.9500	<2
3/14/2020	18.05	5.0	4.5	18.05	121	204.58	3.9000	<2
3/15/2020	16.11	5.0	2.0	16.11	118	199.54	4.2000	<2
3/16/2020	16.22	5.0	4.5	16.22	124	228.21	5.0500	<2
3/17/2020	18.96	7.1	49.0	18.96	153	244.50	3.6000	<2
3/18/2020	16.04	5.0	3.0	16.04	141	212.75	4.2500	<2
3/19/2020	27.91	8.7	13.0	36.49	174	189.83	6.4000	2.02
3/20/2020	18.62	7.1	2.0	18.62	111	229.35	3.9500	<2
3/21/2020	16.53	5.0	11.0	16.53	121	179.85	3.3500	2.06
3/22/2020	16.16	7.1	2.0	16.16	107	189.80	3.3500	<2
3/23/2020	26.31	7.1	2.0	37.19	109	216.50	5.9500	2
3/24/2020	25.04	7.1	2.0	29.42	123	143.50	5.4000	<2
3/25/2020	21.77	7.9	3.5	21.77	95	200.74	4.6000	2.21
3/26/2020	19.76	5.0	4.5	19.76	116	175.32	4.1000	<2
3/27/2020	19.38	5.0	2.0	19.38	96	164.08	4.2000	<2
3/28/2020	25.62	12.2	2.0	25.62	149	152.66	6.9285	2.41
3/29/2020	35.14	7.1	13.0	36.09	121	124.02	6.8461	2.40
3/30/2020	23.83	7.1	2.0	23.83	81	114.69	4.7142	2.10
3/31/2020	21.13	7.1	2.0	21.13	102	129.78	4.2143	2.16
4/1/2020	21.63	5.0	3.9	21.63	115	118.05	4.8572	2.04
4/2/2020	21.82	5.0	2.0	21.82	107	165.23	5.2666	2.35
4/3/2020	35.14	14.1	49.0	41.52	123	138.74	7.0667	2.22
4/4/2020	23.71	7.1	13.0	23.71	72	122.15	6.4000	2.18
4/5/2020	22.43	7.1	3.7	22.43	85	135.22	3.9285	<2
4/6/2020	21.28	5.0	2.0	21.28	135	164.07	6	2.11
4/7/2020	20.70	5.0	4.5	20.70	102	213.03	3.9285	2.82
4/8/2020	21.96	5.0	7.6	21.96	109	158.62	3.9285	<2
4/9/2020	29.55	5.0	2.0	40.27	158	198.68	6.0714	<2
4/10/2020	23.06	7.1	2.0	23.06	109	134.81	5.5625	<2
4/11/2020	21.64	7.1	2.0	21.64	97	129.09	4.0500	2.11
4/12/2020	21.49	5.0	4.5	21.49	96	136.20	4	2.23
4/13/2020	34.79	5.0	4.5	58.21	104	169.23	6.3572	2.01
4/14/2020	29.12	7.1	2.0	29.12	56	54.92	11.357	4.78
4/15/2020	27.36	10.0	2.0	27.36	123	171.01	5.6429	2.79
4/16/2020	26.01	7.1	2.0	26.01	81	134.73	3.6428	<2
4/17/2020	24.98	7.1	2.0	24.98	98	136.81	6.6875	<2
4/18/2020	37.21	10.0	7.8	38.84	105	102.59	7.1111	2.42
4/19/2020	25.56	7.1	4.5	25.56	65	123.96	5.9285	2.11
4/20/2020	24.87	7.1	2.0	24.87	84	108.97	4.7000	<2
4/21/2020	30.60	7.1	23.0	34.39	83	120.60	5.4000	<2
4/22/2020	24.42	6.3	7.8	24.42	102	100.53	7.5000	2.08
4/23/2020	23.25	10.0	4.5	23.25	109	151	6.6428	<2
4/24/2020	31.70	7.1	4.5	31.70	98	146.81	6.5000	2.06

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2020 Wastewater Treatment Plant TSS, CBOD, Enterococci, and Fecal Coliform Data

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
4/25/2020	23.19	7.1	2.0	23.19	92	141.72	5.1500	<2
4/26/2020	30.12	8.8	2.0	31.66	93	137.41	9.7143	2.19
4/27/2020	28.58	7.1	7.8	28.58	93	105.25	9.2857	3.23
4/28/2020	25.14	7.1	6.8	25.14	91	142.79	6.8125	2.46
4/29/2020	23.47	7.9	3.0	23.47	99	168.85	5.8125	<2
4/30/2020	28.34	10.0	13.0	28.34	127	146.94	8.7857	2.25
5/1/2020	38.25	28.4	11.0	56.29	111	128.09	3.6250	2.15
5/2/2020	29.25	7.1	2.0	29.25	80	92.60	7.8333	2.08
5/3/2020	28.22	7.1	13.0	28.22	73	87.21	5.3572	2.11
5/4/2020	26.95	7.1	4.5	26.95	95	112.73	5.4375	2.07
5/5/2020	25.23	7.1	4.5	25.23	112	122.85	7.2500	2.14
5/6/2020	25.43	7.2	3.9	25.43	94	118.30	5.2500	2.11
5/7/2020	24.03	7.1	4.5	24.03	113	153	5.5000	2.04
5/8/2020	27.81	10.1	7.8	27.81	132	167.11	8.1875	2.77
5/9/2020	30.02	7.1	2.0	30.18	122	127.20	7.6000	2.41
5/10/2020	22.93	7.1	2.0	22.93	86	120.33	5.1428	2.09
5/11/2020	24.46	7.1	23.0	24.46	114	123.99	6.1250	2.21
5/12/2020	22.34	7.1	4.5	22.34	114	141.32	5.2500	2.98
5/13/2020	21.71	5.0	3.0	21.71	105	133.12	6.1250	2.39
5/14/2020	21.08	7.1	4.5	21.08	148	166.05	6.2857	2.40
5/15/2020	24.20	7.1	7.8	24.20	138	167.52	7.0625	2.53
5/16/2020	25.78	7.1	7.8	26.02	130	160.15	7.4545	2.65
5/17/2020	20.80	7.1	23.0	20.80	102	123.17	8.0740	2.35
5/18/2020	21.04	7.1	23.0	21.04	90	132.48	7.1875	2.47
5/19/2020	20.17	10.0	4.5	20.17	122	146.84	8.0625	3.03
5/20/2020	19.37	5.0	5.5	19.37	139	175.22	8.1250	3.18
5/21/2020	19.57	7.1	7.8	19.57	140	187.07	8.6428	3.16
5/22/2020	19.44	7.1	2.0	19.44	146	179.28	8.6428	3.27
5/23/2020	22.34	7.1	2.0	22.34	151	169.70	9.6154	3.26
5/24/2020	18.32	7.1	23.0	18.32	118	143.91	9.6000	3.64
5/25/2020	18.94	7.1	2.0	18.94	112	152.35	9.6666	3.18
5/26/2020	18.00	7.1	4.5	18.00	137	159.07	8.6428	3.36
5/27/2020	18.28	6.3	5.9	18.28	147	153.59	10.667	3.71
5/28/2020	18.68	10.0	6.8	18.68	150	191.88	10.900	3.83
5/29/2020	23.22	14.3	13.0	23.22	252	218.46	8.2000	3.25
5/30/2020	19.55	10.0	4.0	19.55	129	153.99	7.3600	3.28
5/31/2020	17.01	7.1	4.5	17.01	124	166.17	7.6666	3.37
6/1/2020	17.13	7.1	14.0	17.13	104	163.31	8.0666	3.48
6/2/2020	17.00	7.1	7.8	17.00	136	187.86	8.6000	3.61
6/3/2020	17.28	6.3	6.8	17.28	157	201.37	7.5333	3.56
6/4/2020	16.75	7.1	22.0	16.75	155	204.61	6.0667	3.04
6/5/2020	18.27	7.1	33.0	18.27	185	213.81	6.1333	2.68
6/6/2020	29.20	7.1	49.0	31.60	184	199.56	6.9091	3.17
6/7/2020	17.40	16.1	23.0	17.40	114	172.69	4.8000	2.17
6/8/2020	16.54	7.1	4.5	16.54	118	175.98	4.8666	2.14
6/9/2020	16.14	16.1	13.0	16.14	156	194.48	4.2000	2.68
6/10/2020	16.04	7.9	7.6	16.04	146	217.57	4.4000	<2
6/11/2020	19.24	10.0	14.0	19.24	147	231.01	4.8666	<2
6/12/2020	16.20	7.1	7.8	16.20	161	197.91	3.2500	<2
6/13/2020	17.53	7.1	4.5	17.53	136	193.75	3.6500	<2
6/14/2020	17.37	5.0	6.8	17.37	137	175	3.4000	<2
6/15/2020	17.65	7.1	4.5	17.65	140	172.26	3.3333	<2
6/16/2020	17.14	5.0	7.8	17.14	147.50	177.73	3.5500	<2
6/17/2020	17.23	5.0	3.9	17.23	161	188.90	3.3000	<2
6/18/2020	17.45	7.1	2.0	17.45	174	186.98	3.7000	2.04
6/19/2020	17.25	10.0	4.5	17.25	174	202.71	3.3000	<2
6/20/2020	15.81	7.1	4.5	15.81	170	222.40	3.4500	<2

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2020 Wastewater Treatment Plant TSS, CBOD, Enterococci, and Fecal Coliform Data

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
6/21/2020	15.56	5.0	6.8	15.56	148	195.90	2.9000	<2
6/22/2020	14.60	7.1	4.5	14.60	153	191.39	3.3500	2.03
6/23/2020	13.85	7.1	2.0	13.85	180	232.98	3.0500	<2
6/24/2020	18.34	5.0	10.1	18.34	188	207.56	4.9500	2.07
6/25/2020	13.40	5.0	21.0	13.40	178	262.12	3.2500	<2
6/26/2020	13.34	5.0	2.0	13.34	160	198.63	3.2500	<2
6/27/2020	20.52	5.0	11.0	22.32	181	190.27	6.0666	<2
6/28/2020	20.92	7.1	49.0	22.44	134	120.67	3.6666	<2
6/29/2020	15.68	7.1	2.0	15.68	157	126.46	3.6500	<2
6/30/2020	16.07	5.0	7.8	16.07	136	155.23	3.3000	<2
7/1/2020	25.96	6.3	7.0	30.19	161	142.30	5.4500	2.04
7/2/2020	15.16	7.1	4.5	15.16	114	116.52	3.4500	<2
7/3/2020	14.55	7.1	7.8	14.55	138	140.78	3.0500	<2
7/4/2020	13.75	5.0	4.5	13.75	119	156.80	3.0500	<2
7/5/2020	13.83	5.0	2.0	13.83	111	114.70	2.9000	<2
7/6/2020	13.84	5.0	2.0	13.84	138	191.14	2.8000	<2
7/7/2020	14.12	5.0	13.0	14.12	171	196.05	3.1500	<2
7/8/2020	14.13	5.0	5.1	14.13	182	228.91	3.2000	<2
7/9/2020	13.53	5.0	22.0	13.53	188	259.40	3.1000	2.11
7/10/2020	13.50	5.0	2.0	13.50	187	256.84	3.6428	2.07
7/11/2020	14.35	7.1	2.0	14.35	205	222.95	3.2000	<2
7/12/2020	13.08	5.0	6.1	13.08	137	244.11	2.9000	<2
7/13/2020	13.81	5.0	2.0	13.81	142	213.52	3.6000	<2
7/14/2020	17.68	5.0	33.0	17.68	244	240.40	5.3000	2.01
7/15/2020	13.63	6.3	10.1	13.63	171	173.04	3.1000	<2
7/16/2020	12.96	7.1	2.0	12.96	158	218.76	2.8500	<2
7/17/2020	18.15	5.0	49.0	18.15	156	217.99	3.8000	<2
7/18/2020	12.54	7.1	2.0	12.54	147	201.20	3.4500	<2
7/19/2020	12.58	7.1	4.0	12.58	129	190.62	2.9000	<2
7/20/2020	14.63	5.0	13.0	14.63	183	195.46	2.9000	<2
7/21/2020	12.12	5.0	2.0	12.12	148	205.54	3.0500	<2
7/22/2020	12.83	5.0	3.9	12.83	168	240.93	3.5000	2.04
7/23/2020	12.96	5.0	4.0	12.96	149	234.65	3.6500	2.64
7/24/2020	12.70	5.0	2.0	12.70	171	246.12	4.3125	2.21
7/25/2020	11.91	5.0	23.0	11.91	167	240.01	2.9000	<2
7/26/2020	12.16	5.0	4.5	12.16	145	207.48	2.7000	<2
7/27/2020	12.03	5.0	2.0	12.03	157	214.52	2.8000	<2
7/28/2020	18.81	5.0	7.8	18.81	172	268.46	4.4500	<2
7/29/2020	12.47	7.9	23.0	12.47	194	217.75	3.6500	<2
7/30/2020	12.52	10.1	2.0	12.52	150	254.87	2.5500	<2
7/31/2020	12.24	7.1	130.0	12.24	174	265.86	3	<2
8/1/2020	11.75	5.0	2.0	11.75	161	271.16	2.8500	<2
8/2/2020	12.63	5.0	4.5	12.63	146	241.28	2.6000	<2
8/3/2020	12.18	5.0	6.8	12.18	157	238.05	3.1000	<2
8/4/2020	15.12	34.9	1,100.0	15.12	192	266.87	5.8000	4
8/5/2020	12.00	6.3	136.7	12.00	165	185.28	3.9500	2.29
8/6/2020	11.89	7.1	22.0	11.89	166	231.05	3.1500	2.15
8/7/2020	12.05	5.0	27.0	12.05	155	272.97	3.8000	2.31
8/8/2020	11.58	5.0	13.0	11.58	162	211.78	3.6500	2.25
8/9/2020	11.81	5.0	9.2	11.81	150	240.74	3.5000	2.26
8/10/2020	11.90	5.0	7.8	11.90	153	231.31	4.1500	2.52
8/11/2020	12.71	5.0	7.8	12.71	168	291.72	3.5000	<2
8/12/2020	11.89	5.0	13.1	11.89	190	280.24	3.3500	<2
8/13/2020	11.98	5.0	49.0	11.98	191	285.72	3.1000	<2
8/14/2020	11.70	5.0	12.0	11.70	182	302.61	3.6250	2.23
8/15/2020	12.32	7.1	33.0	12.32	176	295.16	2.5500	<2
8/16/2020	17.56	5.0	7.8	17.56	149	267.14	4.3000	2.07

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2020 Wastewater Treatment Plant TSS, CBOD, Enterococci, and Fecal Coliform Data

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
8/17/2020	12.99	10.0	230.0	12.99	178	210.49	3.2000	<2
8/18/2020	14.47	7.1	27.0	14.47	167	292.15	2.8000	<2
8/19/2020	12.14	5.0	13.4	12.14	169	229.68	2.5000	<2
8/20/2020	11.40	7.1	70.0	11.40	154	292.58	2.8000	<2
8/21/2020	11.70	7.1	4.5	11.70	173	297.90	2.6000	<2
8/22/2020	11.28	7.1	13.0	11.28	162	292.56	3	<2
8/23/2020	11.21	5.0	4.5	11.21	168	301.85	3.1000	<2
8/24/2020	14.82	5.0	7.8	14.82	154	284.68	4	<2
8/25/2020	11.73	7.1	7.8	11.73	184	279.23	2.9000	<2
8/26/2020	11.23	5.0	74.9	11.23	156	300.77	2.9000	<2
8/27/2020	17.08	7.1	23.0	17.08	168	256.50	4.6000	<2
8/28/2020	11.93	5.0	23.0	11.93	166	240.23	3.3000	<2
8/29/2020	18.09	5.0	2.0	18.09	163	268.41	4.4500	<2
8/30/2020	11.59	7.1	49.0	11.59	117	258.38	3.4500	<2
8/31/2020	11.72	5.0	13.0	11.72	139	265.14	2.7000	<2
9/1/2020	11.55	5.0	13.0	11.55	168	272.19	3.7500	<2
9/2/2020	16.75	5.0	13.0	16.75	205	237.76	3.6500	<2
9/3/2020	12.12	5.0	17.0	12.12	154	250.60	2.8750	<2
9/4/2020	11.41	10.0	33.0	11.41	182	217.31	3.3500	2.16
9/5/2020	10.88	10.0	13.0	10.88	169	242	<2	<2
9/6/2020	10.90	7.1	17.0	10.90	204	269.71	2.3500	<2
9/7/2020	11.34	5.0	4.5	11.34	176	239.88	3.2000	<2
9/8/2020	11.22	7.1	13.0	11.22	169	276.87	3.2500	<2
9/9/2020	11.53	5.0	65.5	11.53	200	274.18	2.6000	<2
9/10/2020	12.08	7.1	17.0	12.08	183	256.12	2.9000	<2
9/11/2020	11.79	5.0	2.0	11.79	203	286.56	3.6500	2.42
9/12/2020	11.05	7.1	17.0	11.05	153	245.79	4.3500	<2
9/13/2020	11.34	7.1	7.8	11.34	156	327.94	2.7000	<2
9/14/2020	11.28	7.1	7.8	11.28	155	293.40	3.8000	<2
9/15/2020	11.14	5.0	22.0	11.14	199	278.97	4	<2
9/16/2020	11.74	6.3	5.9	11.74	198	296.64	4.4500	2.01
9/17/2020	11.70	27.3	33.0	11.70	200	286.98	4.3500	<2
9/18/2020	11.38	7.1	7.8	11.38	209	275.58	3.3500	<2
9/19/2020	11.01	10.0	33.0	11.01	180	280.49	3.2500	<2
9/20/2020	11.20	8.8	17.0	11.20	159	317.63	3.9500	2.01
9/21/2020	11.20	5.0	14.0	11.20	160	288.22	3.4500	<2
9/22/2020	11.49	47.0	79.0	11.49	192	302.46	3.5000	<2
9/23/2020	11.15	23.5	55.7	11.15	185	293.17	2.8500	<2
9/24/2020	11.25	17.6	13.0	11.25	204	317.88	3.2500	<2
9/25/2020	10.73	11.4	2.0	10.73	209	279.75	2.9000	<2
9/26/2020	11.00	25.1	49.0	11.00	192	300.40	2.9000	<2
9/27/2020	11.44	7.1	11.0	11.44	170	325.51	3.4500	<2
9/28/2020	12.08	12.2	7.8	12.08	177	277.52	2.3500	<2
9/29/2020	11.66	16.1	79.0	11.66	288.33	256.89	5.8000	2.27
9/30/2020	22.14	52.7	115.9	24.78	190	248.86	6.8243	3.65
10/1/2020	11.64	114.0	230.0	11.64	177	256.27	4.4666	2.66
10/2/2020	11.70	52.0	49.0	11.70	160	279.45	4.5000	2.77
10/3/2020	11.13	25.2	17.0	11.13	185	272.53	4.0500	2.34
10/4/2020	10.85	7.1	13.0	10.85	184	266.07	4.2000	2.62
10/5/2020	12.01	7.1	46.0	12.01	173	272.21	4.3500	2.29
10/6/2020	11.39	5.0	23.0	11.39	169	303.75	4.6000	2.62
10/7/2020	13.10	22.8	46.2	13.10	181	282.87	5.0500	3.30
10/8/2020	10.79	525.5	330.0	10.79	220	302.44	4.6000	3.03
10/9/2020	10.76	51.7	49.0	10.76	186	320.23	2.9444	<2
10/10/2020	11.12	14.3	6.1	11.12	138	316.50	3.1500	<2
10/11/2020	10.72	7.1	7.8	10.72	162	410.37	3.2500	<2
10/12/2020	12.23	7.1	7.8	12.23	145	309.56	4.0500	<2

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Bucklin Point 2020 Wastewater Treatment Plant TSS, CBOD, Enterococci, and Fecal Coliform Data

Date	Final Effluent Flow (MGD)	Effluent	Effluent Fecal	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final	Final
		Enterococci Bacteria (MPN/100mL)	Coliform Bacteria (MPN/100mL)				Effluent TSS (mg/L)	Effluent CBOD (mg/L)
10/13/2020	30.05	10.0	49.0	31.48	175	255.24	6.7333	2.49
10/14/2020	12.38	10.0	54.7	12.38	126	192.40	4	2.20
10/15/2020	12.33	7.1	23.0	12.33	155	228.35	3.4000	<2
10/16/2020	20.16	7.1	7.8	20.21	188	274.79	5.9500	2.23
10/17/2020	26.12	10.0	49.0	48.41	107	127.26	5.2105	2.07
10/18/2020	12.89	7.1	4.0	12.89	113	257.16	3.2000	<2
10/19/2020	12.94	5.0	23.0	12.94	216	146.53	3.6000	2.16
10/20/2020	13.79	5.0	4.5	13.79	148	240.35	3.2000	<2
10/21/2020	13.27	5.0	12.2	13.27	161	241.21	3.0500	<2
10/22/2020	11.98	12.4	4.5	11.98	162	310.16	3.5000	<2
10/23/2020	11.90	7.1	2.0	11.90	202	303.83	3.3333	<2
10/24/2020	12.19	5.0	7.8	12.19	161	303.12	3.4500	<2
10/25/2020	12.43	7.1	13.0	12.43	157	274.04	4.7000	2.42
10/26/2020	13.38	17.3	13.0	13.38	156	355.48	5	4.52
10/27/2020	12.88	12.2	33.0	12.88	181	282.25	4.7000	<2
10/28/2020	15.78	16.7	33.0	15.78	221	278.05	5.4000	2.66
10/29/2020	27.58	27.0	13.0	43.24	169	280.24	8.8000	3.23
10/30/2020	24.96	7.1	13.0	25.02	83	131.47	8.7222	4.29
10/31/2020	14.18	10.0	13.0	14.18	131	298.84	4.5333	3.09
11/1/2020	23.54	5.0	7.8	29.46	124	260.80	5.6000	2.25
11/2/2020	15.38	7.1	70.0	15.38	100	135.78	4.9500	<2
11/3/2020	14.00	7.1	4.5	14.00	137	245.39	6.4667	2.01
11/4/2020	14.26	6.3	20.7	14.26	143	228.92	5.3333	<2
11/5/2020	14.05	10.0	17.0	14.05	215	298.86	4.4500	2.08
11/6/2020	13.58	7.1	7.8	13.58	169	222.39	4.6500	<2
11/7/2020	12.94	7.1	7.8	12.94	149	262.42	4.3000	<2
11/8/2020	13.01	8.7	7.8	13.01	141	225.31	5.8000	2.54
11/9/2020	13.93	7.1	7.8	13.93	145	269.61	5.8000	2.44
11/10/2020	14.30	5.0	4.5	14.30	214	271.52	5.2000	<2
11/11/2020	13.98	7.9	13.4	13.98	166	277.17	4.0500	<2
11/12/2020	14.37	7.1	9.2	14.37	169	272.70	4.1500	<2
11/13/2020	16.15	10.0	17.0	16.15	169	247.65	5.1000	<2
11/14/2020	13.33	10.0	2.0	13.33	153	229.30	4.6500	<2
11/15/2020	17.63	7.1	2.0	17.63	143	254.30	5.7500	2.19
11/16/2020	16.95	10.0	7.8	18.31	141.50	179.93	5.4500	<2
11/17/2020	13.28	7.1	4.5	13.28	147	224.06	5.5333	2.58
11/18/2020	12.67	5.0	4.5	12.67	143	218.02	4.7500	<2
11/19/2020	13.01	7.1	2.0	13.01	178	244.74	3.9500	<2
11/20/2020	12.82	5.0	4.0	12.82	153	296.14	4.6000	2.44
11/21/2020	12.97	8.8	6.1	12.97	168	240.97	2.9500	2.20
11/22/2020	13.15	7.1	4.0	13.15	157	222.68	4.4706	2.20
11/23/2020	29.34	7.1	4.0	43.43	159	213.37	6.2000	3.10
11/24/2020	14.80	7.1	4.0	14.80	132	234.16	6.1333	3.23
11/25/2020	14.86	7.9	3.7	14.86	142	272.27	4.8500	2.63
11/26/2020	23.81	12.2	11.0	28.74	146	202.45	4.9500	2.69
11/27/2020	14.86	5.0	13.0	14.86	123	223.59	4.1500	2.94
11/28/2020	14.69	7.1	7.8	14.69	139	185.25	4	2.56
11/29/2020	14.21	5.0	6.8	14.21	143	259.44	3.7500	2.54
11/30/2020	29.08	8.8	17.0	54.44	149	227.28	6.7500	5.25
12/1/2020	30.59	7.1	6.8	40.82	73	80.30	8.1333	3.92
12/2/2020	22.37	7.9	4.5	22.37	92	145	5.7333	2.90
12/3/2020	20.25	7.1	2.0	20.25	89	126.33	5.4000	2.45
12/4/2020	19.57	8.7	13.0	19.57	106	178.26	4.8500	2.29
12/5/2020	36.53	7.1	7.8	80.85	116	144.56	7.1323	2.43
12/6/2020	31.25	10.0	7.8	31.44	48.500	88.85	10	4.25
12/7/2020	26.57	7.1	4.5	26.57	137	135.39	7.0042	2.39
12/8/2020	24.45	7.1	4.5	24.45	99	191.22	5.8572	<2

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

**Bucklin Point 2020 Wastewater Treatment Plant
TSS, CBOD, Enterococci, and Fecal Coliform Data**

Date	Final Effluent Flow (MGD)	Effluent Enterococci Bacteria (MPN/100mL)	Effluent Fecal Coliform Bacteria (MPN/100mL)	Influent Flow (MGD)	Raw Influent TSS (mg/L)	Raw Influent CBOD (mg/L)	Final Effluent TSS (mg/L)	Final Effluent CBOD (mg/L)
12/9/2020	23.50	6.3	5.6	23.50	87	146.49	4.9375	<2
12/10/2020	21.92	5.0	13.0	21.92	122	133.29	5.1875	2.09
12/11/2020	21.59	7.1	2.0	21.59	126	202.10	4.5625	<2
12/12/2020	28.37	5.0	4.5	31.09	128	162.14	4.8500	<2
12/13/2020	21.11	7.1	2.0	21.11	86	125.21	4.7000	<2
12/14/2020	22.57	7.1	2.0	22.57	100.50	186.71	5	2.08
12/15/2020	19.70	8.7	2.0	19.70	155	205.37	4.6875	<2
12/16/2020	19.35	5.0	5.9	19.35	126	175.35	6.8125	<2
12/17/2020	19.32	7.1	2.0	19.32	71	211.42	5.1000	<2
12/18/2020	19.23	5.0	2.0	19.23	123	256.80	5.2500	<2
12/19/2020	18.97	7.1	2.0	18.97	116	162.61	5.5414	<2
12/20/2020	19.05	5.0	7.8	19.05	113	164.69	6.1850	<2
12/21/2020	19.32	5.0	9.2	19.32	126	214.22	5.1875	2.06
12/22/2020	19.01	5.0	13.0	19.01	142	215.79	5.6250	2.19
12/23/2020	17.99	5.0	4.5	17.99	145	227.55	5.4500	<2
12/24/2020	26.96	5.0	2.0	26.96	142	180.74	6.1000	2.11
12/25/2020	39.09	12.2	6.8	87.63	159	102.35	10.500	2.69
12/26/2020	39.49	12.4	2.0	40.84	62.143	46.34	10.364	2.25
12/27/2020	31.31	7.1	17.0	31.31	98	86.14	8.7000	2.21
12/28/2020	29.15	10.0	9.2	29.15	62.500	104.87	7	<2
12/29/2020	26.69	12.4	4.5	26.69	78	111.67	7	<2
12/30/2020	25.83	5.0	2.0	25.83	102	116.92	6	<2
12/31/2020	27.32	5.0	4.5	27.32	122	115.12	6.2500	<2

Table 2: Bucklin Point TSS, CBOD, and Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
1/1/2020	Wednesday	<2.0	<2.0	54.5	10.0	15.5
1/2/2020	Thursday	<2.0		15.5		15.5
1/3/2020	Friday	2.0		26.0		5.0
1/4/2020	Saturday	<2.0		42.0		25.5
1/5/2020	Sunday	<2.0		20.5		5.0
1/6/2020	Monday	<2.0		15.5		10.0
1/7/2020	Tuesday	<2.0		26.0		10.0
1/8/2020	Wednesday	2.0	<2.0	31.5	<5.0	10.0
1/9/2020	Thursday	<2.0		5.0		<5.0
1/10/2020	Friday	<2.0		5.0		<5.0
1/11/2020	Saturday	2.0		<5.0		10.0
1/12/2020	Sunday	<2.0		5.0		<5.0
1/13/2020	Monday	2.0		5.0		<5.0
1/14/2020	Tuesday	<2.0		10.0		5.0
1/15/2020	Wednesday	<2.0	4.5	<5.0	<5.0	<5.0
1/16/2020	Thursday	<2.0		<5.0		5.0
1/17/2020	Friday	<2.0		<5.0		<5.0
1/18/2020	Saturday	2.0		5.0		<5.0
1/19/2020	Sunday	4.5		5.0		5.0
1/20/2020	Monday	2.0		10.0		<5.0
1/21/2020	Tuesday	<2.0		<5.0		<5.0
1/22/2020	Wednesday	<2.0	<2.0	5.0	<5.0	<5.0
1/23/2020	Thursday	<2.0		5.0		<5.0
1/24/2020	Friday	2.0		<5.0		<5.0
1/25/2020	Saturday	<2.0		<5.0		5.0
1/26/2020	Sunday	2.0		15.0		<5.0
1/27/2020	Monday	2.0		10.0		5.0
1/28/2020	Tuesday	<2.0		15.5		<5.0
1/29/2020	Wednesday	<2.0	<2.0	5.0	<5.0	<5.0
1/30/2020	Thursday	<2.0		5.0		5.0
1/31/2020	Friday	<2.0		10.0		<5.0
2/1/2020	Saturday	2.0		5.0		5.0
2/2/2020	Sunday	<2.0		15.5		<5.0
2/3/2020	Monday	<2.0		5.0		<5.0
2/4/2020	Tuesday	4.5		<5.0		10.0
2/5/2020	Wednesday	4.5	<2.0	20.5	<5.0	<5.0
2/6/2020	Thursday	11.0		15.5		158.0
2/7/2020	Friday	<2.0		<5.0		<5.0
2/8/2020	Saturday	<2.0		5.0		<5.0
2/9/2020	Sunday	<2.0		5.0		<5.0
2/10/2020	Monday	<2.0		10.0		<5.0
2/11/2020	Tuesday	<2.0		10.0		10.0
2/12/2020	Wednesday	<2.0	<2.0	36.0	<5.0	<5.0
2/13/2020	Thursday	<2.0		<5.0		20.5
2/14/2020	Friday	<2.0		<5.0		<5.0
2/15/2020	Saturday	<2.0		<5.0		5.0
2/16/2020	Sunday	<2.0		5.0		<5.0
2/17/2020	Monday	<2.0		<5.0		<5.0
2/18/2020	Tuesday	<2.0		10.0		<5.0
2/19/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0
2/20/2020	Thursday	<2.0		5.0		10.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
2/21/2020	Friday	<2.0		<5.0		5.0
2/22/2020	Saturday	2.0		10.0		<5.0
2/23/2020	Sunday	<2.0		5.0		<5.0
2/24/2020	Monday	<2.0		5.0		<5.0
2/25/2020	Tuesday	2.0		<5.0		5.0
2/26/2020	Wednesday	<2.0	<2.0	5.0	<5.0	10.0
2/27/2020	Thursday	4.5		<5.0		10.0
2/28/2020	Friday	<2.0		<5.0		<5.0
2/29/2020	Saturday	<2.0		<5.0		<5.0
3/1/2020	Sunday	<2.0		<5.0		10.0
3/2/2020	Monday	<2.0		5.0		<5.0
3/3/2020	Tuesday	2.0		15.0		5.0
3/4/2020	Wednesday	<2.0	2.0	5.0	<5.0	5.0
3/5/2020	Thursday	<2.0		<5.0		<5.0
3/6/2020	Friday	7.8		<5.0		<5.0
3/7/2020	Saturday	2.0		<5.0		<5.0
3/8/2020	Sunday	2.0		5.0		<5.0
3/9/2020	Monday	<2.0		5.0		5.0
3/10/2020	Tuesday	2.0		<5.0		5.0
3/11/2020	Wednesday	<2.0	<2.0	<5.0	10.0	<5.0
3/12/2020	Thursday	2.0		<5.0		<5.0
3/13/2020	Friday	<2.0		<5.0		<5.0
3/14/2020	Saturday	<2.0		<5.0		<5.0
3/15/2020	Sunday	<2.0		5.0		<5.0
3/16/2020	Monday	<2.0		<5.0		<5.0
3/17/2020	Tuesday	<2.0		<5.0		<5.0
3/18/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0
3/19/2020	Thursday	4.5		<5.0		5.0
3/20/2020	Friday	<2.0		<5.0		<5.0
3/21/2020	Saturday	2.0		<5.0		<5.0
3/22/2020	Sunday	<2.0		5.0		<5.0
3/23/2020	Monday	<2.0		5.0		5.0
3/24/2020	Tuesday	<2.0		<5.0		<5.0
3/25/2020	Wednesday	2.0	<2.0	10.0	5.0	<5.0
3/26/2020	Thursday	<2.0		<5.0		<5.0
3/27/2020	Friday	2.0		<5.0		5.0
3/28/2020	Saturday	<2.0		<5.0		<5.0
3/29/2020	Sunday	<2.0		<5.0		<5.0
3/30/2020	Monday	2.0		10.0		<5.0
3/31/2020	Tuesday	<2.0		<5.0		<5.0
4/1/2020	Wednesday	<2.0	<2.0	5.0	<5.0	<5.0
4/2/2020	Thursday	<2.0		<5.0		<5.0
4/3/2020	Friday	<2.0		<5.0		<5.0
4/4/2020	Saturday	<2.0		<5.0		5.0
4/5/2020	Sunday	<2.0		5.0		<5.0
4/6/2020	Monday	<2.0		<5.0		5.0
4/7/2020	Tuesday	<2.0		<5.0		5.0
4/8/2020	Wednesday	<2.0	<2.0	15.5	<5.0	<5.0
4/9/2020	Thursday	<2.0		<5.0		<5.0
4/10/2020	Friday	<2.0		5.0		<5.0
4/11/2020	Saturday	<2.0		5.0		<5.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
4/12/2020	Sunday	<2.0		<5.0		<5.0
4/13/2020	Monday	<2.0		<5.0		<5.0
4/14/2020	Tuesday	<2.0		<5.0		<5.0
4/15/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0
4/16/2020	Thursday	4.5		<5.0		<5.0
4/17/2020	Friday	<2.0		<5.0		<5.0
4/18/2020	Saturday	2.0		<5.0		<5.0
4/19/2020	Sunday	4.0		<5.0		<5.0
4/20/2020	Monday	<2.0		<5.0		<5.0
4/21/2020	Tuesday	<2.0		<5.0		<5.0
4/22/2020	Wednesday	2.0	2.0	<5.0	<5.0	<5.0
4/23/2020	Thursday	2.0		<5.0		<5.0
4/24/2020	Friday	2.0		<5.0		<5.0
4/25/2020	Saturday	<2.0		<5.0		<5.0
4/26/2020	Sunday	<2.0		<5.0		<5.0
4/27/2020	Monday	<2.0		<5.0		<5.0
4/28/2020	Tuesday	2.0		<5.0		5.0
4/29/2020	Wednesday	<2.0	2.0	5.0	<5.0	<5.0
4/30/2020	Thursday	2.0		10.0		5.0
5/1/2020	Friday	<2.0		<5.0		<5.0
5/2/2020	Saturday	<2.0		<5.0		<5.0
5/3/2020	Sunday	<2.0		<5.0		<5.0
5/4/2020	Monday	<2.0		<5.0		<5.0
5/5/2020	Tuesday	<2.0		<5.0		<5.0
5/6/2020	Wednesday	7.8	2.0	<5.0	<5.0	<5.0
5/7/2020	Thursday	<2.0		<5.0		<5.0
5/8/2020	Friday	2.0		<5.0		<5.0
5/9/2020	Saturday	<2.0		5.0		<5.0
5/10/2020	Sunday	7.8		<5.0		5.0
5/11/2020	Monday	2.0		<5.0		<5.0
5/12/2020	Tuesday	2.0		<5.0		<5.0
5/13/2020	Wednesday	<2.0	4.5	<5.0	5.0	<5.0
5/14/2020	Thursday	2.0		<5.0		<5.0
5/15/2020	Friday	<2.0		10.0		5.0
5/16/2020	Saturday	<2.0		<5.0		5.0
5/17/2020	Sunday	2.0		5.0		<5.0
5/18/2020	Monday	<2.0		<5.0		<5.0
5/19/2020	Tuesday	2.0		<5.0		5.0
5/20/2020	Wednesday	2.0	<2.0	5.0	<5.0	<5.0
5/21/2020	Thursday	<2.0		<5.0		<5.0
5/22/2020	Friday	<2.0		5.0		5.0
5/23/2020	Saturday	<2.0		<5.0		5.0
5/24/2020	Sunday	2.0		<5.0		5.0
5/25/2020	Monday	2.0		<5.0		<5.0
5/26/2020	Tuesday	<2.0		<5.0		<5.0
5/27/2020	Wednesday	<2.0	2.0	5.0	<5.0	<5.0
5/28/2020	Thursday	2.0		20.5		<5.0
5/29/2020	Friday	<2.0		5.0		10.0
5/30/2020	Saturday	<2.0		5.0		5.0
5/31/2020	Sunday	2.0		5.0		<5.0
6/1/2020	Monday	<2.0		<5.0		5.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
6/2/2020	Tuesday	<2.0		<5.0		5.0
6/3/2020	Wednesday	7.8	4.5	<5.0	<5.0	5.0
6/4/2020	Thursday	<2.0		<5.0		<5.0
6/5/2020	Friday	<2.0		5.0		<5.0
6/6/2020	Saturday	<2.0		5.0		<5.0
6/7/2020	Sunday	4.5		<5.0		<5.0
6/8/2020	Monday	2.0		<5.0		<5.0
6/9/2020	Tuesday	4.5		<5.0		5.0
6/10/2020	Wednesday	4.5	2.0	<5.0	<5.0	<5.0
6/11/2020	Thursday	7.8		10.0		<5.0
6/12/2020	Friday	4.5		<5.0		<5.0
6/13/2020	Saturday	2.0		5.0		<5.0
6/14/2020	Sunday	4.5		5.0		<10.0
6/15/2020	Monday	<2.0		<5.0		10.0
6/16/2020	Tuesday	2.0		5.0		<5.0
6/17/2020	Wednesday	11.0	4.5	<5.0	<5.0	5.0
6/18/2020	Thursday	4.0		<5.0		<5.0
6/19/2020	Friday	2.0		<5.0		<5.0
6/20/2020	Saturday	4.5		<5.0		5.0
6/21/2020	Sunday	6.8		<5.0		5.0
6/22/2020	Monday	4.0		<5.0		<5.0
6/23/2020	Tuesday	7.8		<5.0		<5.0
6/24/2020	Wednesday	<2.0	2.0	<5.0	<5.0	<5.0
6/25/2020	Thursday	4.5		<5.0		<5.0
6/26/2020	Friday	<2.0		<5.0		<5.0
6/27/2020	Saturday	4.5		10.0		5.0
6/28/2020	Sunday	2.0		5.0		5.0
6/29/2020	Monday	<2.0		10.0		<5.0
6/30/2020	Tuesday	<2.0		5.0		<5.0
7/1/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0
7/2/2020	Thursday	<2.0		10.0		<5.0
7/3/2020	Friday	<2.0		10.0		5.0
7/4/2020	Saturday	<2.0		5.0		<5.0
7/5/2020	Sunday	<2.0		<5.0		5.0
7/6/2020	Monday	<2.0		10.0		<5.0
7/7/2020	Tuesday	<2.0		<5.0		<5.0
7/8/2020	Wednesday	2.0	2.0	<5.0	5.0	<5.0
7/9/2020	Thursday	4.0		5.0		<5.0
7/10/2020	Friday	4.5		5.0		<5.0
7/11/2020	Saturday	2.0		<5.0		<5.0
7/12/2020	Sunday	7.8		<5.0		5.0
7/13/2020	Monday	<2.0		5.0		<5.0
7/14/2020	Tuesday	7.8		5.0		<5.0
7/15/2020	Wednesday	4.5	4.0	5.0	<5.0	10.0
7/16/2020	Thursday	7.8		<5.0		5.0
7/17/2020	Friday	2.0		<5.0		5.0
7/18/2020	Saturday	<2.0		5.0		5.0
7/19/2020	Sunday	<2.0		<5.0		<5.0
7/20/2020	Monday	<2.0		<5.0		<5.0
7/21/2020	Tuesday	2.0		<5.0		<5.0
7/22/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
7/23/2020	Thursday	4.5		<5.0		<5.0
7/24/2020	Friday	2.0		<5.0		<5.0
7/25/2020	Saturday	<2.0		10.0		<5.0
7/26/2020	Sunday	2.0		<5.0		<5.0
7/27/2020	Monday	<2.0		<5.0		<5.0
7/28/2020	Tuesday	<2.0		<5.0		<5.0
7/29/2020	Wednesday	<2.0	<2.0	<5.0	5.0	<5.0
7/30/2020	Thursday	14.0		<5.0		<5.0
7/31/2020	Friday	7.8		5.0		<5.0
8/1/2020	Saturday	<2.0		<5.0		15.0
8/2/2020	Sunday	2.0		<5.0		5.0
8/3/2020	Monday	6.8		5.0		<5.0
8/4/2020	Tuesday	2.0		5.0		5.0
8/5/2020	Wednesday	<2.0	<2.0	<5.0	5.0	<5.0
8/6/2020	Thursday	33.0		<5.0		<5.0
8/7/2020	Friday	7.8		<5.0		<5.0
8/8/2020	Saturday	2.0		5.0		<5.0
8/9/2020	Sunday	7.8		<5.0		<5.0
8/10/2020	Monday	<2.0		<5.0		<5.0
8/11/2020	Tuesday	4.5		<5.0		<5.0
8/12/2020	Wednesday	<2.0	2.0	<5.0	<5.0	<5.0
8/13/2020	Thursday	2.0		<5.0		<5.0
8/14/2020	Friday	<2.0		<5.0		10.0
8/15/2020	Saturday	<2.0		<5.0		<5.0
8/16/2020	Sunday	4.0		<5.0		<5.0
8/17/2020	Monday	4.5		5.0		15.5
8/18/2020	Tuesday	<2.0		<5.0		10.0
8/19/2020	Wednesday	23.0	4.5	5.0	10.0	<10.0
8/20/2020	Thursday	<2.0		<5.0		5.0
8/21/2020	Friday	2.0		<5.0		<5.0
8/22/2020	Saturday	<2.0		<5.0		<5.0
8/23/2020	Sunday	2.0		<5.0		<5.0
8/24/2020	Monday	<2.0		10.0		<5.0
8/25/2020	Tuesday	<2.0		<5.0		<5.0
8/26/2020	Wednesday	<2.0	<2.0	5.0	5.0	<5.0
8/27/2020	Thursday	2.0		<5.0		<5.0
8/28/2020	Friday	<2.0		<5.0		<5.0
8/29/2020	Saturday	2.0		<5.0		10.0
8/30/2020	Sunday	<2.0		<5.0		<5.0
8/31/2020	Monday	<2.0		<5.0		5.0
9/1/2020	Tuesday	<2.0		<5.0		<5.0
9/2/2020	Wednesday	<2.0	4.5	<5.0	<5.0	<5.0
9/3/2020	Thursday	49.0		10.0		10.0
9/4/2020	Friday	2.0		<5.0		<5.0
9/5/2020	Saturday	<2.0		5.0		10.0
9/6/2020	Sunday	2.0		5.0		<5.0
9/7/2020	Monday	4.5		<5.0		<5.0
9/8/2020	Tuesday	2.0		5.0		<5.0
9/9/2020	Wednesday	490.0	490.0	<5.0	<5.0	<5.0
9/10/2020	Thursday	<2.0		<5.0		5.0
9/11/2020	Friday	<2.0		5.0		<5.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
9/12/2020	Saturday	<2.0		<5.0		<5.0
9/13/2020	Sunday	6.0		<5.0		5.0
9/14/2020	Monday	<2.0		5.0		<5.0
9/15/2020	Tuesday	<2.0		<5.0		10.0
9/16/2020	Wednesday	2.0	<2.0	10.0	<5.0	<5.0
9/17/2020	Thursday	33.0		37.5		10.0
9/18/2020	Friday	<2.0		10.0		5.0
9/19/2020	Saturday	<2.0		5.0		5.0
9/20/2020	Sunday	4.5		72.0		15.5
9/21/2020	Monday	<2.0		20.5		20.5
9/22/2020	Tuesday	2.0		31.0		10.0
9/23/2020	Wednesday	<2.0	<2.0	10.0	10.0	5.0
9/24/2020	Thursday	2.0		5.0		5.0
9/25/2020	Friday	2.0		15.5		10.0
9/26/2020	Saturday	<2.0		5.0		5.0
9/27/2020	Sunday	2.0		<5.0		<5.0
9/28/2020	Monday	<2.0		5.0		<5.0
9/29/2020	Tuesday	<2.0		10.0		<5.0
9/30/2020	Wednesday	13.0	7.8	<5.0	20.5	72.0
10/1/2020	Thursday	33.0		<5.0		<5.0
10/2/2020	Friday	23.0		<5.0		<5.0
10/3/2020	Saturday	2.0		5.0		<5.0
10/4/2020	Sunday	2.0		<5.0		<5.0
10/5/2020	Monday	2.0		<5.0		5.0
10/6/2020	Tuesday	6.8		<5.0		<5.0
10/7/2020	Wednesday	4.5	13.0	<5.0	<5.0	<5.0
10/8/2020	Thursday	<2.0		<5.0		15.0
10/9/2020	Friday	7.8		<5.0		<5.0
10/10/2020	Saturday	4.5		<5.0		<5.0
10/11/2020	Sunday	2.0		5.0		<5.0
10/12/2020	Monday	4.5		<5.0		10.0
10/13/2020	Tuesday	33.0		<5.0		15.0
10/14/2020	Wednesday	12.0	6.8	5.0	<5.0	5.0
10/15/2020	Thursday	<2.0		5.0		<5.0
10/16/2020	Friday	11.0		5.0		5.0
10/17/2020	Saturday	7.8		20.5		10.0
10/18/2020	Sunday	2.0		10.0		10.0
10/19/2020	Monday	17.0		10.0		<10.0
10/20/2020	Tuesday	2.0		10.0		<5.0
10/21/2020	Wednesday	7.8	2.0	<5.0	<5.0	<5.0
10/22/2020	Thursday	<2.0		<5.0		<5.0
10/23/2020	Friday	2.0		<5.0		5.0
10/24/2020	Saturday	4.5		10.0		<5.0
10/25/2020	Sunday	2.0		<5.0		<5.0
10/26/2020	Monday	2.0		<5.0		<5.0
10/27/2020	Tuesday	<2.0		<5.0		5.0
10/28/2020	Wednesday	<2.0	<2.0	5.0	<5.0	5.0
10/29/2020	Thursday	<2.0		<5.0		<5.0
10/30/2020	Friday	13.0		5.0		<5.0
10/31/2020	Saturday	7.8		10.0		<5.0
11/1/2020	Sunday	2.0		31.0		10.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
11/2/2020	Monday	<2.0		<5.0		15.5
11/3/2020	Tuesday	<2.0		<5.0		10.0
11/4/2020	Wednesday	<2.0	6.8	<5.0	10.0	5.0
11/5/2020	Thursday	<2.0		<5.0		10.0
11/6/2020	Friday	7.8		<5.0		10.0
11/7/2020	Saturday	<2.0		5.0		5.0
11/8/2020	Sunday	<2.0		10.0		10.0
11/9/2020	Monday	<2.0		<5.0		<5.0
11/10/2020	Tuesday	<2.0		<5.0		5.0
11/11/2020	Wednesday	<2.0	<2.0	<5.0	<5.0	<5.0
11/12/2020	Thursday	<2.0		<5.0		<5.0
11/13/2020	Friday	<2.0		<5.0		<5.0
11/14/2020	Saturday	<2.0		<5.0		<5.0
11/15/2020	Sunday	4.5		25.5		<5.0
11/16/2020	Monday	<2.0		10.0		10.0
11/17/2020	Tuesday	<2.0		5.0		<5.0
11/18/2020	Wednesday	<2.0	4.0	<5.0	10.0	15.0
11/19/2020	Thursday	<2.0		5.0		<5.0
11/20/2020	Friday	<2.0		<5.0		<5.0
11/21/2020	Saturday	<2.0		<5.0		<5.0
11/22/2020	Sunday	<2.0		5.0		<5.0
11/23/2020	Monday	<2.0		5.0		15.5
11/24/2020	Tuesday	2.0		5.0		20.5
11/25/2020	Wednesday	<2.0	2.0	5.0	10.0	5.0
11/26/2020	Thursday	<2.0		<5.0		5.0
11/27/2020	Friday	<2.0		10.0		<5.0
11/28/2020	Saturday	2.0		<5.0		<5.0
11/29/2020	Sunday	<2.0		<5.0		<5.0
11/30/2020	Monday	2.0		5.0		5.0
12/1/2020	Tuesday	6.8		20.5		<5.0
12/2/2020	Wednesday	<2.0	<2.0	31.5	10.0	5.0
12/3/2020	Thursday	4.5		<5.0		15.5
12/4/2020	Friday	<2.0		20.5		<5.0
12/5/2020	Saturday	2.0		15.0		15.5
12/6/2020	Sunday	2.0		67.5		15.5
12/7/2020	Monday	4.5		48.5		31.5
12/8/2020	Tuesday	6.8		65.5		31.5
12/9/2020	Wednesday	6.8	2.0	<5.0	42.5	55.0
12/10/2020	Thursday	2.0		5.0		5.0
12/11/2020	Friday	<2.0		15.5		<5.0
12/12/2020	Saturday	4.5		31.5		<5.0
12/13/2020	Sunday	2.0		5.0		5.0
12/14/2020	Monday	6.0		<5.0		<5.0
12/15/2020	Tuesday	<2.0		10.0		5.0
12/16/2020	Wednesday	<2.0	<2.0	5.0	10.0	5.0
12/17/2020	Thursday	<2.0		10.0		<5.0
12/18/2020	Friday	<2.0		5.0		<5.0
12/19/2020	Saturday	<2.0		5.0		5.0
12/20/2020	Sunday	<2.0		5.0		5.0
12/21/2020	Monday	2.0		5.0		5.0
12/22/2020	Tuesday	<2.0		5.0		5.0

*Sample times are approximate

Table 3: Field's Point Bacteria Data

Field's Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform		Enterococci		
		Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 1 (08:00*)	Grab 1 Duplicate (08:00*)	Grab 2 (04:00*)
12/23/2020	Wednesday	2.0	2.0	<5.0	10.0	<5.0
12/24/2020	Thursday	<2.0		10.0		<5.0
12/25/2020	Friday	4.5		<5.0		15.5
12/26/2020	Saturday	2.0		<5.0		<5.0
12/27/2020	Sunday	2.0		15.0		15.5
12/28/2020	Monday	2.0		5.0		<5.0
12/29/2020	Tuesday	2.0		10.0		5.0
12/30/2020	Wednesday	<2.0	<2.0	5.0	15.0	10.0
12/31/2020	Thursday	<2.0		10.0		5.0

*Sample times are approximate
Table 3: Field's Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
1/1/2020	Wednesday	4.5	7.8		10.0	10.0	5.0	
1/2/2020	Thursday	2.0			<10.0	<5.0		
1/3/2020	Friday	13.0			10.0	15.5		
1/4/2020	Saturday	2.0			<10.0	15.5		
1/5/2020	Sunday	4.5			<10.0	<5.0		
1/6/2020	Monday	2.0			<10.0	<5.0		
1/7/2020	Tuesday	4.5			<10.0	5.0		
1/8/2020	Wednesday	4.5	7.8		<10.0	5.0	<5.0	
1/9/2020	Thursday	4.5			5.0	5.0		
1/10/2020	Friday	2.0			10.0	<5.0		
1/11/2020	Saturday	4.5			10.0	<5.0		
1/12/2020	Sunday	2.0			<10.0	10.0		
1/13/2020	Monday	7.8			<10.0	5.0		
1/14/2020	Tuesday	2.0			<10.0	15.0		
1/15/2020	Wednesday	7.8	4.5		10.0	<5.0	<5.0	
1/16/2020	Thursday	17.0			<10.0	5.0		
1/17/2020	Friday	23.0			10.0	5.0		
1/18/2020	Saturday	4.5			<10.0	5.0		
1/19/2020	Sunday	2.0			10.0	5.0		
1/20/2020	Monday	23.0			<10.0	26.0		
1/21/2020	Tuesday	49.0			<10.0	10.0		
1/22/2020	Wednesday	33.0	33.0		<10.0	<5.0	<5.0	
1/23/2020	Thursday	6.8			<10.0	<5.0		
1/24/2020	Friday	2.0			<10.0	15.5		
1/25/2020	Saturday	<2.0			<10.0	<5.0		
1/26/2020	Sunday	11.0			10.0	5.0		
1/27/2020	Monday	23.0			<10.0	5.0		
1/28/2020	Tuesday	7.8			<10.0	<5.0		
1/29/2020	Wednesday	<2.0	7.8		<10.0	10.0	10.0	
1/30/2020	Thursday	4.5			10.0	5.0		
1/31/2020	Friday	2.0			<10.0	<5.0		
2/1/2020	Saturday	4.5			5.0	<5.0		
2/2/2020	Sunday	<2.0			<10.0	<5.0		
2/3/2020	Monday	<2.0			<10.0	<5.0		
2/4/2020	Tuesday	<2.0			10.0	<5.0		
2/5/2020	Wednesday	2.0	2.0		10.0	5.0	<5.0	
2/6/2020	Thursday	4.5			<10.0	10.0		
2/7/2020	Friday	6.8			<10.0	5.0		
2/8/2020	Saturday	2.0			<10.0	<5.0		
2/9/2020	Sunday	2.0			<10.0	<5.0		
2/10/2020	Monday	<2.0			<5.0	<5.0		
2/11/2020	Tuesday	<2.0			5.0	5.0		
2/12/2020	Wednesday	13.0	7.8		31.0	37.5	10.0	
2/13/2020	Thursday	<2.0			<10.0	10.0		
2/14/2020	Friday	17.0			<10.0	<5.0		
2/15/2020	Saturday	4.5			<10.0	10.0		
2/16/2020	Sunday	<2.0			5.0	<5.0		
2/17/2020	Monday	<2.0			<5.0	<5.0		
2/18/2020	Tuesday	<2.0			<5.0	5.0		
2/19/2020	Wednesday	4.0	4.5		<5.0	5.0	<5.0	
2/20/2020	Thursday	4.5			<5.0	<5.0		
2/21/2020	Friday	<2.0			<5.0	<5.0		
2/22/2020	Saturday	2.0			<5.0	<5.0		
2/23/2020	Sunday	2.0			10.0	15.0		
2/24/2020	Monday	<2.0			5.0	10.0		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
2/25/2020	Tuesday	4.5			<10.0	<5.0		
2/26/2020	Wednesday	6.8	4.5		<10.0	<5.0	10.0	
2/27/2020	Thursday	17.0			<10.0	20.5		
2/28/2020	Friday	<2.0			<10.0	<5.0		
2/29/2020	Saturday	<2.0			5.0	<5.0		
3/1/2020	Sunday	2.0			<5.0	<5.0		
3/2/2020	Monday	4.5			10.0	<5.0		
3/3/2020	Tuesday	4.5			5.0	5.0		
3/4/2020	Wednesday	11.0	4.5		10.0	5.0	<5.0	
3/5/2020	Thursday	<2.0			<5.0	5.0		
3/6/2020	Friday	4.5			<5.0	10.0		
3/7/2020	Saturday	7.8			5.0	5.0		
3/8/2020	Sunday	4.5			5.0	<5.0		
3/9/2020	Monday	2.0			<5.0	5.0		
3/10/2020	Tuesday	11.0			10.0	<5.0		
3/11/2020	Wednesday	2.0	<2.0		5.0	5.0	5.0	
3/12/2020	Thursday	6.1			5.0	<5.0		
3/13/2020	Friday	4.5			5.0	<5.0		
3/14/2020	Saturday	4.5			5.0	<5.0		
3/15/2020	Sunday	2.0			5.0	5.0		
3/16/2020	Monday	4.5			<5.0	<5.0		
3/17/2020	Tuesday	49.0			10.0	<5.0		
3/18/2020	Wednesday	4.5	<2.0		<5.0	<5.0	5.0	
3/19/2020	Thursday	13.0			<5.0	15.0		
3/20/2020	Friday	<2.0			10.0	5.0		
3/21/2020	Saturday	11.0			<5.0	<5.0		
3/22/2020	Sunday	2.0			5.0	10.0		
3/23/2020	Monday	<2.0			<5.0	10.0		
3/24/2020	Tuesday	2.0			<10.0	<5.0		
3/25/2020	Wednesday	<2.0	6.1		<10.0	<5.0	10.0	
3/26/2020	Thursday	4.5			<5.0	<5.0		
3/27/2020	Friday	2.0			5.0	<5.0		
3/28/2020	Saturday	<2.0			15.0	10.0		
3/29/2020	Sunday	13.0			<10.0	<5.0		
3/30/2020	Monday	2.0			10.0	5.0		
3/31/2020	Tuesday	2.0			<10.0	<5.0		
4/1/2020	Wednesday	2.0	7.8		<5.0	5.0	<5.0	
4/2/2020	Thursday	2.0		11.0	<5.0	5.0		5.0
4/3/2020	Friday	49.0			20.0	10.0		
4/4/2020	Saturday	13.0			<10.0	5.0		
4/5/2020	Sunday	3.7			10.0	<5.0		
4/6/2020	Monday	2.0			5.0	<5.0		
4/7/2020	Tuesday	4.5			5.0	<5.0		
4/8/2020	Wednesday	13.0	4.5		<5.0	5.0	5.0	
4/9/2020	Thursday	2.0			5.0	<5.0		
4/10/2020	Friday	<2.0			<10.0	5.0		
4/11/2020	Saturday	2.0			<10.0	<5.0		
4/12/2020	Sunday	4.5			5.0	<5.0		
4/13/2020	Monday	4.5			<5.0	<5.0		
4/14/2020	Tuesday	2.0			<10.0	5.0		
4/15/2020	Wednesday	<2.0	2.0		<10.0	<10.0	<10.0	
4/16/2020	Thursday	2.0			<10.0	<5.0		
4/17/2020	Friday	2.0			<10.0	<5.0		
4/18/2020	Saturday	7.8			20.0	<5.0		
4/19/2020	Sunday	4.5			<10.0	<5.0		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
4/20/2020	Monday	2.0			<10.0	5.0		
4/21/2020	Tuesday	23.0			10.0	<5.0		
4/22/2020	Wednesday	7.8	7.8		10.0	<5.0	5.0	
4/23/2020	Thursday	4.5			<10.0	10.0		
4/24/2020	Friday	4.5			10.0	5.0		
4/25/2020	Saturday	2.0			10.0	<5.0		
4/26/2020	Sunday	<2.0			15.5	<5.0		
4/27/2020	Monday	7.8			<10.0	5.0		
4/28/2020	Tuesday	6.8			<10.0	5.0		
4/29/2020	Wednesday	2.0	4.5		<10.0	5.0	10.0	
4/30/2020	Thursday	13.0			<10.0	10.0		
5/1/2020	Friday	11.0			31.0	26.0		
5/2/2020	Saturday	<2.0			10.0	5.0		
5/3/2020	Sunday	13.0			10.0	<5.0		
5/4/2020	Monday	4.5			<10.0	<5.0		
5/5/2020	Tuesday	4.5			<10.0	<5.0		
5/6/2020	Wednesday	7.8	2.0		15.0	<5.0	<5.0	
5/7/2020	Thursday	4.5			10.0	<5.0		
5/8/2020	Friday	7.8			<5.0	20.5		
5/9/2020	Saturday	<2.0			<10.0	<5.0		
5/10/2020	Sunday	<2.0			<10.0	<5.0		
5/11/2020	Monday	23.0			<10.0	5.0		
5/12/2020	Tuesday	4.5			<10.0	<5.0		
5/13/2020	Wednesday	2.0	4.5		<5.0	5.0	5.0	
5/14/2020	Thursday	4.5			<10.0	<5.0		
5/15/2020	Friday	7.8			10.0	5.0		
5/16/2020	Saturday	7.8			<10.0	5.0		
5/17/2020	Sunday	23.0			10.0	5.0		
5/18/2020	Monday	23.0			<10.0	<5.0		
5/19/2020	Tuesday	4.5			<10.0	10.0		
5/20/2020	Wednesday	6.8	4.5		5.0	<5.0	<5.0	
5/21/2020	Thursday	7.8			10.0	5.0		
5/22/2020	Friday	<2.0			10.0	<5.0		
5/23/2020	Saturday	<2.0			<10.0	<5.0		
5/24/2020	Sunday	23.0			<10.0	5.0		
5/25/2020	Monday	2.0			<10.0	5.0		
5/26/2020	Tuesday	4.5			<10.0	<5.0		
5/27/2020	Wednesday	7.8	4.5		<10.0	<5.0	5.0	
5/28/2020	Thursday	6.8			20.0	<5.0		
5/29/2020	Friday	13.0			<10.0	20.5		
5/30/2020	Saturday	4.0			20.0	<5.0		
5/31/2020	Sunday	4.5			<10.0	<5.0		
6/1/2020	Monday	14.0			<10.0	<5.0		
6/2/2020	Tuesday	7.8			10.0	5.0		
6/3/2020	Wednesday	2.0	23.0		<10.0	5.0	5.0	
6/4/2020	Thursday	22.0			<10.0	5.0		
6/5/2020	Friday	33.0			10.0	5.0		
6/6/2020	Saturday	49.0			5.0	10.0		
6/7/2020	Sunday	23.0			10.0	26.0		
6/8/2020	Monday	4.5			<10.0	<5.0		
6/9/2020	Tuesday	13.0			52.0	<5.0		
6/10/2020	Wednesday	4.5	13.0		<10.0	<5.0	10.0	
6/11/2020	Thursday	14.0			<10.0	10.0		
6/12/2020	Friday	7.8			<10.0	<5.0		
6/13/2020	Saturday	4.5			10.0	<5.0		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
6/14/2020	Sunday	6.8			5.0	<5.0		
6/15/2020	Monday	4.5			<10.0	<5.0		
6/16/2020	Tuesday	7.8			<5.0	5.0		
6/17/2020	Wednesday	2.0	7.8		5.0	<5.0	5.0	
6/18/2020	Thursday	2.0			<10.0	<5.0		
6/19/2020	Friday	4.5			10.0	10.0		
6/20/2020	Saturday	4.5			<10.0	<5.0		
6/21/2020	Sunday	6.8			5.0	<5.0		
6/22/2020	Monday	4.5			<5.0	10.0		
6/23/2020	Tuesday	2.0			10.0	<5.0		
6/24/2020	Wednesday	7.8	13.0		5.0	<5.0	<5.0	
6/25/2020	Thursday	21.0			<5.0	<5.0		
6/26/2020	Friday	2.0			<5.0	<5.0		
6/27/2020	Saturday	11.0			5.0	<5.0		
6/28/2020	Sunday	49.0			<10.0	5.0		
6/29/2020	Monday	2.0			<10.0	<5.0		
6/30/2020	Tuesday	7.8			5.0	5.0		
7/1/2020	Wednesday	11.0	4.5		10.0	<5.0	<5.0	
7/2/2020	Thursday	4.5			<10.0	<5.0		
7/3/2020	Friday	7.8			10.0	5.0		
7/4/2020	Saturday	4.5			5.0	5.0		
7/5/2020	Sunday	<2.0			<5.0	<5.0		
7/6/2020	Monday	<2.0			<5.0	<5.0		
7/7/2020	Tuesday	13.0			<5.0	5.0		
7/8/2020	Wednesday	2.0	13.0		5.0	<5.0	<5.0	
7/9/2020	Thursday	22.0			5.0	<5.0		
7/10/2020	Friday	2.0			5.0	5.0		
7/11/2020	Saturday	<2.0			<10.0	5.0		
7/12/2020	Sunday	6.1			<5.0	<5.0		
7/13/2020	Monday	2.0			5.0	<5.0		
7/14/2020	Tuesday	33.0			<5.0	<5.0		
7/15/2020	Wednesday	13.0	7.8		10.0	5.0	<5.0	
7/16/2020	Thursday	2.0			<10.0	5.0		
7/17/2020	Friday	49.0			<5.0	5.0		
7/18/2020	Saturday	2.0			10.0	<5.0		
7/19/2020	Sunday	4.0			<5.0	10.0		
7/20/2020	Monday	13.0			5.0	<5.0		
7/21/2020	Tuesday	<2.0			5.0	<5.0		
7/22/2020	Wednesday	<2.0	7.8		<5.0	<5.0	<5.0	
7/23/2020	Thursday	4.0			<5.0	<5.0		
7/24/2020	Friday	2.0			<5.0	<5.0		
7/25/2020	Saturday	23.0			5.0	<5.0		
7/26/2020	Sunday	4.5			<5.0	<5.0		
7/27/2020	Monday	2.0			<5.0	<5.0		
7/28/2020	Tuesday	7.8			<5.0	<5.0		
7/29/2020	Wednesday	23.0	23.0		<10.0	10.0	<5.0	
7/30/2020	Thursday	2.0			<5.0	20.5		
7/31/2020	Friday	130.0			10.0	<5.0		
8/1/2020	Saturday	2.0			<5.0	5.0		
8/2/2020	Sunday	4.5			<5.0	<5.0		
8/3/2020	Monday	6.8			<5.0	<5.0		
8/4/2020	Tuesday	1,100.0			<5.0	243.5		
8/5/2020	Wednesday	170.0	110.0		10.0	<5.0	<5.0	
8/6/2020	Thursday	22.0			<10.0	<5.0		
8/7/2020	Friday	27.0			<5.0	5.0		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
8/8/2020	Saturday	13.0			<5.0	<5.0		
8/9/2020	Sunday	9.2			<5.0	5.0		
8/10/2020	Monday	7.8			<5.0	<5.0		
8/11/2020	Tuesday	7.8			<5.0	<5.0		
8/12/2020	Wednesday	7.8	22.0		5.0	<5.0	<5.0	
8/13/2020	Thursday	49.0			<5.0	5.0		
8/14/2020	Friday	12.0			5.0	<5.0		
8/15/2020	Saturday	33.0			<10.0	5.0		
8/16/2020	Sunday	7.8			5.0	5.0		
8/17/2020	Monday	230.0			20.0	<5.0		
8/18/2020	Tuesday	27.0			10.0	5.0		
8/19/2020	Wednesday	23.0	7.8		<5.0	<5.0	5.0	
8/20/2020	Thursday	70.0			<5.0	10.0		
8/21/2020	Friday	4.5			<10.0	5.0		
8/22/2020	Saturday	13.0			<10.0	5.0		
8/23/2020	Sunday	4.5			5.0	5.0		
8/24/2020	Monday	7.8			<5.0	5.0		
8/25/2020	Tuesday	7.8			<10.0	5.0		
8/26/2020	Wednesday	33.0	170.0		<5.0	<5.0	5.0	
8/27/2020	Thursday	23.0			<5.0	10.0		
8/28/2020	Friday	23.0			<5.0	<5.0		
8/29/2020	Saturday	<2.0			<5.0	5.0		
8/30/2020	Sunday	49.0			<10.0	<5.0		
8/31/2020	Monday	13.0			<5.0	<5.0		
9/1/2020	Tuesday	13.0			<5.0	5.0		
9/2/2020	Wednesday	13.0	13.0		<5.0	<5.0	<5.0	
9/3/2020	Thursday	17.0			<5.0	<5.0		
9/4/2020	Friday	33.0			10.0	10.0		
9/5/2020	Saturday	13.0			20.0	<5.0		
9/6/2020	Sunday	17.0			10.0	5.0		
9/7/2020	Monday	4.5			<5.0	<5.0		
9/8/2020	Tuesday	13.0			<5.0	10.0		
9/9/2020	Wednesday	130.0	33.0		<5.0	<5.0	<5.0	
9/10/2020	Thursday	17.0			10.0	<5.0		
9/11/2020	Friday	2.0			5.0	<5.0		
9/12/2020	Saturday	17.0			10.0	<5.0		
9/13/2020	Sunday	7.8			5.0	10.0		
9/14/2020	Monday	7.8			<5.0	10.0		
9/15/2020	Tuesday	22.0			<5.0	<5.0		
9/16/2020	Wednesday	7.8	4.5		5.0	<5.0	10.0	
9/17/2020	Thursday	33.0			15.5	48.0		
9/18/2020	Friday	7.8			10.0	<5.0		
9/19/2020	Saturday	33.0			20.0	<5.0		
9/20/2020	Sunday	17.0			15.5	<5.0		
9/21/2020	Monday	14.0			5.0	<5.0		
9/22/2020	Tuesday	79.0			52.0	42.5		
9/23/2020	Wednesday	94.0	33.0		20.0	20.5	31.5	
9/24/2020	Thursday	13.0			20.0	15.5		
9/25/2020	Friday	2.0			26.0	<5.0		
9/26/2020	Saturday	49.0			20.0	31.5		
9/27/2020	Sunday	11.0			10.0	<5.0		
9/28/2020	Monday	7.8			<10.0	15.0		
9/29/2020	Tuesday	79.0			52.0	<5.0		
9/30/2020	Wednesday	79.0	170.0		31.0	97.5	48.5	
10/1/2020	Thursday	230.0			122.0	106.5		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
10/2/2020	Friday	49.0			63.0	43.0		
10/3/2020	Saturday	17.0			41.0	15.5		
10/4/2020	Sunday	13.0			<10.0	<5.0		
10/5/2020	Monday	46.0			10.0	<5.0		
10/6/2020	Tuesday	23.0			5.0	<5.0		
10/7/2020	Wednesday	79.0	27.0		10.0	31.5	37.5	
10/8/2020	Thursday	330.0			780.0	354.0		
10/9/2020	Friday	49.0			63.0	42.5		
10/10/2020	Saturday	6.1			10.0	20.5		
10/11/2020	Sunday	7.8			10.0	5.0		
10/12/2020	Monday	7.8			<10.0	<5.0		
10/13/2020	Tuesday	49.0			10.0	10.0		
10/14/2020	Wednesday	130.0	23.0		20.0	5.0	10.0	
10/15/2020	Thursday	23.0			<10.0	5.0		
10/16/2020	Friday	7.8			<10.0	<5.0		
10/17/2020	Saturday	49.0			20.0	<5.0		
10/18/2020	Sunday	4.0			<10.0	5.0		
10/19/2020	Monday	23.0			<5.0	5.0		
10/20/2020	Tuesday	4.5			<5.0	<5.0		
10/21/2020	Wednesday	33.0	4.5		5.0	5.0	5.0	
10/22/2020	Thursday	4.5			<10.0	15.5		
10/23/2020	Friday	2.0			<10.0	5.0		
10/24/2020	Saturday	7.8			<5.0	<5.0		
10/25/2020	Sunday	13.0			<10.0	<5.0		
10/26/2020	Monday	13.0			20.0	15.0		
10/27/2020	Tuesday	33.0			10.0	15.0		
10/28/2020	Wednesday	33.0	33.0		30.0	15.5	10.0	
10/29/2020	Thursday	13.0			73.0	10.0		
10/30/2020	Friday	13.0			<10.0	<5.0		
10/31/2020	Saturday	13.0			20.0	<5.0		
11/1/2020	Sunday	7.8			5.0	<5.0		
11/2/2020	Monday	70.0			<10.0	<5.0		
11/3/2020	Tuesday	4.5			<10.0	<5.0		
11/4/2020	Wednesday	13.0	33.0		<10.0	<5.0	5.0	
11/5/2020	Thursday	17.0			20.0	<5.0		
11/6/2020	Friday	7.8			10.0	5.0		
11/7/2020	Saturday	7.8			<10.0	5.0		
11/8/2020	Sunday	7.8			15.0	<5.0		
11/9/2020	Monday	7.8			10.0	5.0		
11/10/2020	Tuesday	4.5			5.0	<5.0		
11/11/2020	Wednesday	23.0	7.8		<10.0	5.0	10.0	
11/12/2020	Thursday	9.2			10.0	5.0		
11/13/2020	Friday	17.0			20.0	<5.0		
11/14/2020	Saturday	<2.0			<10.0	10.0		
11/15/2020	Sunday	2.0			5.0	10.0		
11/16/2020	Monday	7.8			20.0	5.0		
11/17/2020	Tuesday	4.5			<10.0	5.0		
11/18/2020	Wednesday	4.5	4.5		5.0	<5.0	<5.0	
11/19/2020	Thursday	2.0			<10.0	<5.0		
11/20/2020	Friday	4.0			<5.0	5.0		
11/21/2020	Saturday	6.1			15.5	<5.0		
11/22/2020	Sunday	4.0			<10.0	<5.0		
11/23/2020	Monday	4.0			<10.0	<5.0		
11/24/2020	Tuesday	4.0			<10.0	<5.0		
11/25/2020	Wednesday	<2.0	6.8		20.0	5.0	<5.0	

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Bucklin Point Bacteria Data 2020

all results are in MPN/100 mL

Date	Day of the Week	Fecal Coliform			Enterococci			
		Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab	Grab 1 (04:00*)	Grab 2 (08:00*)	Grab 2 Duplicate (08:00*)	Non- Routine Grab
11/26/2020	Thursday	11.0			10.0	15.0		
11/27/2020	Friday	13.0			<5.0	5.0		
11/28/2020	Saturday	7.8			10.0	<5.0		
11/29/2020	Sunday	6.8			<5.0	5.0		
11/30/2020	Monday	17.0			15.5	<5.0		
12/1/2020	Tuesday	6.8			<10.0	<5.0		
12/2/2020	Wednesday	4.5	4.5		20.0	<5.0	5.0	
12/3/2020	Thursday	<2.0			10.0	<5.0		
12/4/2020	Friday	13.0			5.0	15.0		
12/5/2020	Saturday	7.8			10.0	<5.0		
12/6/2020	Sunday	7.8			<10.0	<10.0		
12/7/2020	Monday	4.5			<10.0	5.0		
12/8/2020	Tuesday	4.5			10.0	<5.0		
12/9/2020	Wednesday	4.0	7.8		<10.0	5.0	<5.0	
12/10/2020	Thursday	13.0			5.0	5.0		
12/11/2020	Friday	2.0			10.0	5.0		
12/12/2020	Saturday	4.5			<5.0	5.0		
12/13/2020	Sunday	2.0			<10.0	<5.0		
12/14/2020	Monday	<2.0			10.0	5.0		
12/15/2020	Tuesday	2.0			<5.0	15.0		
12/16/2020	Wednesday	7.8	4.5		5.0	5.0	<5.0	
12/17/2020	Thursday	2.0			10.0	<5.0		
12/18/2020	Friday	2.0			<5.0	5.0		
12/19/2020	Saturday	<2.0			<5.0	10.0		
12/20/2020	Sunday	7.8			<5.0	5.0		
12/21/2020	Monday	9.2			5.0	<5.0		
12/22/2020	Tuesday	13.0			5.0	<5.0		
12/23/2020	Wednesday	4.5	4.5		<5.0	<5.0	<5.0	
12/24/2020	Thursday	<2.0			<5.0	5.0		
12/25/2020	Friday	6.8			10.0	15.0		
12/26/2020	Saturday	2.0			10.0	15.5		
12/27/2020	Sunday	17.0			10.0	5.0		
12/28/2020	Monday	9.2			10.0	10.0		
12/29/2020	Tuesday	4.5			31.0	<5.0		
12/30/2020	Wednesday	<2.0	2.0		<5.0	5.0	<5.0	
12/31/2020	Thursday	4.5			5.0	<5.0		

*Sample times are approximate
Table 4: Bucklin Point Bacteria Data

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/1/2020	Wednesday	60.06	0.1558	2.093		11.46	5.076		6.261	0.1029	44.29	<4	<4
1/7/2020	Tuesday	42.36	0.1941	3.939	19	20.99	3.341	0.0181	17.25	0.3400	56.80	5.16	<4
1/8/2020	Wednesday	41.04	0.2042	3.003		27.62	4.039		13.48	0.2771	61.76	7.39	<4
1/14/2020	Tuesday	39.72	0.2084	3.424		63.09	2.631		16.59	0.3323	63.25	5.21	<4
1/15/2020	Wednesday	39.23	0.2315	3.355		27.87	4.005		16.67	0.2767	70.88	6.16	<4
1/21/2020	Tuesday	36.77	0.2020	2.978		25.12	2.869		17.58	0.3388	70.16	7.37	<4
1/22/2020	Wednesday	35.41	0.1819	2.713		27.26	2.555		15.84	0.4825	69.22	7.39	<4
1/28/2020	Tuesday	35.53	0.1635	3.494		29.83	2.432		14.29	0.2941	62.44	5.66	<4
1/29/2020	Wednesday	37.31	0.1824	3.107		26.53	2.815		16.05	0.2586	61.28	5.22	<4
2/4/2020	Tuesday	35.55	0.2002	4.068		47.66	3.544	0.0361	16.35	0.4465	74.59	5.27	<4
2/5/2020	Wednesday	38.79	0.2205	4.104		36.93	5.763		17.30	1.125	86.26	5.47	<4
2/11/2020	Tuesday	48.47	0.1833	4.430	15	29.66	8.606		14.23	6.774	78.73	5.41	<4
2/12/2020	Wednesday	47.20	0.1652	3.186		39.93	5.366		13.86	1.960	67.03	5.71	<4
2/18/2020	Tuesday	39.16	0.2083	5.080		37.21	5.597		25.69	2.269	128.1	5.07	<4
2/19/2020	Wednesday	35.40	0.1868	2.960		31.97	3.194		23.60	1.026	86.54	5.81	<4
2/25/2020	Tuesday	37.89	0.2423	3.889		33.59	4.858		19.61	1.645	94.56	5.05	<4
2/26/2020	Wednesday	43.05	0.2632	5.151		40.42	10.30		23.72	1.690	118.6	5.90	<4
3/3/2020	Tuesday	45.80	0.2157	4.717	34	36.69	10.92	*	12.06	2.005	100.6	4.43	<4
3/4/2020	Wednesday	33.98	0.1812	2.540		25.87	2.998		13.33	1.106	64.29	9.03	<4
3/10/2020	Tuesday	32.47	0.1990	6.535		33.24	5.039		15.80	0.8016	92.61	4.61	<4
3/11/2020	Wednesday	34.67	0.1791	4.947		30.08	4.273		14.34	1.113	81.41	16.4	<4
3/17/2020	Tuesday	34.77	0.1717	3.409		37.33	5.352		17.23	0.7241	102.2	4.12	<4
3/18/2020	Wednesday	37.22	0.1812	3.338		28.87	3.974		14.32	0.4559	80.01	4.38	<4
3/24/2020	Tuesday	65.97	0.1427	2.409		16.15	6.698		9.897	0.3418	56.19	<4	<4
3/25/2020	Wednesday	66.82	0.1191	2.055		29.27	3.744		9.529	0.6946	52.18	4.22	<4
3/31/2020	Tuesday	43.26	0.1686	3.040		29.32	6.875		16.54	0.3131	66.55	<4	<4
4/1/2020	Wednesday	43.30	0.1620	3.263		18.81	3.894		13.49	0.3856	58.89	4.54	<4
4/7/2020	Tuesday	44.05	0.1616	3.886	19	23.54	4.096	0.0308	11.10	0.3843	64.93	4.75	<4
4/8/2020	Wednesday	44.47	0.2026	3.638		27.40	4.834		12.12	0.3371	67.94	<4	<4
4/14/2020	Tuesday	69.68	0.1505	2.029		16.83	5.868		8.106	0.1696	44.16	5.88	<4
4/15/2020	Wednesday	71.71	0.1453	1.948		17.79	5.149		9.502	0.5593	49.06	<4	<4
4/21/2020	Tuesday	60.24	0.1967	3.275		25.41	17.01		19.12	0.4470	74.90	4.27	<4
4/22/2020	Wednesday	60.37	0.1382	2.310		13.53	5.762		10.78	0.2253	50.61	4.47	<4
4/28/2020	Tuesday	47.03	0.1594	2.874		18.62	2.821		13.51	0.4142	55.73	<4	<4
4/29/2020	Wednesday	48.35	0.1696	3.371		26.53	3.694		11.12	0.2234	56.49	<4	<4
5/5/2020	Tuesday	62.09	0.1542	2.578	15	12.64	6.258	0.00581	9.452	0.5783	48.52	4.26	<4
5/6/2020	Wednesday	51.82	0.1895	3.048		21.52	5.607		14.62	0.4248	62.47	5.04	<4
5/12/2020	Tuesday	44.14	0.1758	2.851		21.10	3.541		14.72	0.4610	59.07	<8	<4
5/13/2020	Wednesday	42.40	0.2265	3.109		22.06	4.036		14.92	0.8777	67.28	<8	<4
5/19/2020	Tuesday	38.17	0.1908	4.060		22.06	5.896		15.56	1.265	72.67	4.55	<4
5/20/2020	Wednesday	38.32	0.1787	3.895		20.79	3.163		12.58	0.5578	69.32	4.20	<4
5/26/2020	Tuesday	36.85	0.1680	4.158		28.02	3.952		12.97	0.3530	73.53	<4	<4

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

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
5/27/2020	Wednesday	35.04	0.1716	3.999		27.41	4.290		15.42	0.3741	88.97	<4	<4
6/2/2020	Tuesday	34.27	0.1664	3.944	30	28.28	3.897	0.0239	18.63	0.5352	77.67	<4	<4
6/3/2020	Wednesday	34.94	0.1893	2.985		27.82	4.717		15.05	1.143	83.41	<4	<4
6/9/2020	Tuesday	31.79	0.1790	3.098		25.69	5.198		13.97	0.6271	80.33	<4	<4
6/10/2020	Wednesday	35.13	0.1738	2.824		35.05	3.920		13.38	0.5273	74.72	4.74	<4
6/16/2020	Tuesday	31.77	0.1504	3.092		21.67	4.465		14.95	0.5986	76.51	<4	<4
6/17/2020	Wednesday	33.14	0.1575	3.739		44.90	4.435		18.42	0.4760	86.80	<4	<4
6/23/2020	Tuesday	32.49	0.1585	8.250		51.27	4.750		14.53	0.4843	104	<4	<4
6/24/2020	Wednesday	32.80	0.1825	7.818		57.12	6.001		16.44	0.5006	129.8	<4	<4
6/30/2020	Tuesday	41.62	0.3712	7.518		57.50	65.02		25.91	0.7842	196.8	6.29	<4
7/1/2020	Wednesday	38.72	0.2430	4.651		41.84	37.15		13.96	0.7814	125.5	5.69	<4
7/7/2020	Tuesday	31.12	0.1686	3.497	40	23.45	5.324	*	9.829	0.7230	99.09	<4	<4
7/8/2020	Wednesday	31.60	0.1763	2.909		27.90	4.784		19.19	0.3339	88.09	<4	<4
7/14/2020	Tuesday	46.70	0.2905	6.861		77.13	38.41		18.32	0.7741	177.3	<4	<4
7/15/2020	Wednesday	36.43	0.1625	4.576		23.98	10.87		18.09	0.2244	111.8	<4	<4
7/21/2020	Tuesday	31.25	0.1857	3.474		35.08	11.52		15.52	0.5506	107.1	<4	<4
7/22/2020	Wednesday	31.98	0.2326	3.828		38.63	25.83		18.30	0.6326	131.3	<4	<4
7/28/2020	Tuesday	47.10	0.2375	5.585		70.58	25.43		14.62	0.7753	160.1	<4	<4
7/29/2020	Wednesday	44.14	0.1589	5.714		32.50	15.91		52.61	0.4405	91.18	<4	<4
8/4/2020	Tuesday	35.30	0.2693	5.163	28	51.67	27.40	0.0381	17.74	1.322	154.5	<4	<4
8/5/2020	Wednesday	35.71	0.2002	3.758		29.05	18.61		15.10	0.3783	105.5	<4	<4
8/11/2020	Tuesday	29.72	0.2498	4.394		68.25	13.77		24.82	0.6468	145.6	6.39	<4
8/12/2020	Wednesday	28.74	0.1745	4.606		62.39	8.532		40.20	0.6288	97.38	4.36	<4
8/18/2020	Tuesday	31.40	0.1681	6.747		36.26	13.74		17.53	0.9695	108.3	<4	<4
8/19/2020	Wednesday	27.25	0.1634	4.346		34.60	8.976		17.09	0.6795	102.3	<4	<4
8/25/2020	Tuesday	27.79	0.2416	4.906		43.20	13.24		22.56	0.7753	131.1	5.16	<4
8/26/2020	Wednesday	29.15	0.1729	3.897		41.08	6.849		17.41	0.5707	94.26	7.36	<4
9/1/2020	Tuesday	26.99	0.1893	4.936		27.96	5.123		17.54	0.5199	120.6	<4	<4
9/2/2020	Wednesday	37.43	0.2227	6.421		44.41	13.90		18.66	0.6313	149.8	<4	<4
9/8/2020	Tuesday	27.56	0.1693	6.068		27.76	7.663		24.18	0.9194	111.1	<4	<4
9/9/2020	Wednesday	28.68	0.1990	5.390		52.28	7.408		25.67	0.5810	146	4.92	<4
9/15/2020	Tuesday	26.12	0.1762	3.509	57	40.11	5.664	0.0244	24.87	0.5064	101.2	8.82	<4
9/16/2020	Wednesday	26.27	0.1678	4.884		33.53	4.621		18.75	0.6965	92.95	<4	<4
9/22/2020	Tuesday	27.89	0.1703	2.963		30.99	6.066		20.29	1.125	86.50	<4	<4
9/23/2020	Wednesday	27.51	0.2468	4.380		36.67	5.695		19.85	0.6668	108.5	<4	<4
9/29/2020	Tuesday	35.09	0.2803	4.348		73.52	16.15		22.68	1.018	160.3	5.35	<4
9/30/2020	Wednesday	41.24	0.1748	3.732		50.89	13.50		14.72	3.325	106.5	4.22	<4
10/6/2020	Tuesday	26.69	0.1799	11.47	55	90.24	5.342	0.0447	21.74	0.8174	115.3	9.26	<4
10/7/2020	Wednesday	29.36	0.2378	6.385		74.11	11.20		26.37	0.7730	138.9	10.6	<4
10/13/2020	Tuesday	55.94	0.1539	4.833		33.04	19.93		14.35	0.4882	117.3	<4	<4
10/14/2020	Wednesday	28.44	0.1720	3.350		38.99	5.565		17.30	0.4418	103.3	<4	<4
10/20/2020	Tuesday	36.06	0.2029	3.259		57.61	13.82		22.41	0.8531	122.6	8.54	<4

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

Field's Point Influent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
10/21/2020	Wednesday	28.93	0.1919	3.962		36.16	5.207		24.91	0.5457	104.2	4	<4
10/27/2020	Tuesday	28.89	0.1974	3.352		41.63	6.633		22.13	0.5998	114.3	19.1	<4
10/28/2020	Wednesday	31.58	0.1740	4.299		34.52	6.315		17.60	0.8689	120.9	<4	<4
11/3/2020	Tuesday	38.02	0.1547	2.953	47	26.80	5.679	0.00482	12.42	0.3686	80.02	<4	<4
11/4/2020	Wednesday	30.31	0.1570	3.176		25.40	5.239		17.67	0.4720	79.10	5.60	<4
11/10/2020	Tuesday	28.43	0.2293	3.913		31.86	5.399		17.75	0.4438	100.6	<4	<4
11/11/2020	Wednesday	32.71	0.2402	4.143		40.63	7.471		20.16	0.4084	122.4	<4	<4
11/17/2020	Tuesday	29.66	0.1636	3.442		60.52	3.646		28.84	0.4055	77.36	4.18	<4
11/18/2020	Wednesday	28.28	0.1862	2.857		46.03	4.692		20.27	0.5703	81.35	<4	<4
11/24/2020	Tuesday	56.03	0.1056	2.677		27	7.066		17.37	0.5721	60.63	6.46	<4
11/25/2020	Wednesday	49.46	0.1336	2.692		29.85	8.723		12.41	0.4293	63.51	<4	<4
12/1/2020	Tuesday	71.76	0.1571	2.751		20.41	9.541		13.73	0.2726	54.84	7.79	<4
12/2/2020	Wednesday	68.35	0.1140	2.532		13.12	4.785		9.223	0.3330	42.24	5.06	<4
12/8/2020	Tuesday	75.27	0.1144	3.100	12	21.35	3.340	0.00723	10.80	0.2072	39.66	14.4	<4
12/9/2020	Wednesday	63.68	0.1186	2.063		14.23	3.751		8.796	0.2417	43.10	6.17	<4
12/15/2020	Tuesday	41.20	0.1521	4.046		22.37	3.004		18.87	0.5609	59.82		
12/16/2020	Wednesday	44.44	0.1735	3.145		40.88	5.356		21.71	0.6439	83.02	4.61	<4
12/17/2020	Thursday	39.56										11	<4
12/22/2020	Tuesday	41.73	0.1751	3.673		19.32	5.141		12.04	0.2895	75.69	5.89	<4
12/23/2020	Wednesday	37.74	0.1742	3.367		26.41	3.311		11.64	0.3311	67.58	5.74	<4
12/29/2020	Tuesday	70.15	0.1196	2.012		12.21	3.716		6.510	0.1179	41.81	7.32	<4
12/30/2020	Wednesday	66.27	0.1340	2.641		16.20	7.561		7.658	0.1577	50.20	5.02	<4

*Mercury sampling not conducted in March and July due to COVID-19 impacts and analyzer issues

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

Field's Point Influent Metals, Al-Mo, 2020
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo
1/1/2020	Wednesday	60.06	158.2		<1	2.720	4.545
1/7/2020	Tuesday	42.36	142.3	1348	1.480	3.466	4.150
1/8/2020	Wednesday	41.04	144.4		1.357	3.438	4.581
1/14/2020	Tuesday	39.72	147.9		1.172	2.971	5.840
1/15/2020	Wednesday	39.23	169		1.274	3.369	5.016
1/21/2020	Tuesday	36.77	161.7		1.707	3.415	5.897
1/22/2020	Wednesday	35.41	158.7		1.442	3.097	9.379
1/28/2020	Tuesday	35.53	126.3		2.287	3.530	8.992
1/29/2020	Wednesday	37.31	132.7		1.720	3.497	10.49
2/4/2020	Tuesday	35.55	234.8	1379	3.479	3.465	14.22
2/5/2020	Wednesday	38.79	407.5		2.176	3.322	8.218
2/11/2020	Tuesday	48.47	320.3		1	2.238	6.648
2/12/2020	Wednesday	47.20	203.6		1.223	2.708	4.617
2/18/2020	Tuesday	39.16	287.5		1.695	2.552	10.24
2/19/2020	Wednesday	35.40	155.5		1.637	2.541	13.27
2/25/2020	Tuesday	37.89	203.8		1.651	2.899	11.76
2/26/2020	Wednesday	43.05	376.9		2.459	2.755	11.02
3/3/2020	Tuesday	45.80	411.3	1672	1.047	2.345	7.090
3/4/2020	Wednesday	33.98	151.9		1.924	2.238	9.672
3/10/2020	Tuesday	32.47	258.7		1.533	2.678	6.363
3/11/2020	Wednesday	34.67	190.1		2.564	2.849	18.53
3/17/2020	Tuesday	34.77	223.2		1.123	1.775	7.232
3/18/2020	Wednesday	37.22	209.6		1.250	2.913	12.63
3/24/2020	Tuesday	65.97	242.4		<1	1.570	8.361
3/25/2020	Wednesday	66.82	136.2		<1	1.732	6.855
3/31/2020	Tuesday	43.26	188.2		1.136	2.426	7.662
4/1/2020	Wednesday	43.30	131.2		1.129	2.498	8.389
4/7/2020	Tuesday	44.05	165.2	1200	1.089	2.595	9.436
4/8/2020	Wednesday	44.47	164.1		<1	2.755	8.878
4/14/2020	Tuesday	69.68	186.2		<1	2.085	4.942
4/15/2020	Wednesday	71.71	148.2		<1	2.042	5.553
4/21/2020	Tuesday	60.24	351		1.705	2.574	6.018
4/22/2020	Wednesday	60.37	162		1.448	2.475	8.261
4/28/2020	Tuesday	47.03	125.9		<1	2.565	6.335
4/29/2020	Wednesday	48.35	144.8		<1	2.681	6.208
5/5/2020	Tuesday	62.09	174.9	1129	1.091	2.291	6.938
5/6/2020	Wednesday	51.82	211.7		1.606	2.664	8.439
5/12/2020	Tuesday	44.14	169.3		1.060	2.671	3.261
5/13/2020	Wednesday	42.40	181.8		1.259	2.756	3.785
5/19/2020	Tuesday	38.17	200.5		1.301	2.932	5.218
5/20/2020	Wednesday	38.32	175.2		1.111	2.790	24.73
5/26/2020	Tuesday	36.85	166.3		1.166	2.994	8.548
5/27/2020	Wednesday	35.04	173.2		1.116	2.717	18.53
6/2/2020	Tuesday	34.27	184.6	1308	1.208	2.984	6.197
6/3/2020	Wednesday	34.94	183.7		<1	2.718	6.194
6/9/2020	Tuesday	31.79	207.7		2.015	2.282	13.14
6/10/2020	Wednesday	35.13	184.5		2.221	2.290	11.62
6/16/2020	Tuesday	31.77	175.8		1.431	2.229	7.168
6/17/2020	Wednesday	33.14	185.7		1.476	2.304	6.380
6/23/2020	Tuesday	32.49	206.9		1.844	2.213	8.104
6/24/2020	Wednesday	32.80	264		1.206	2.597	7.568
6/30/2020	Tuesday	41.62	1475		1.377	2.489	7.359
7/1/2020	Wednesday	38.72	905.6		1.194	1.991	6.605
7/7/2020	Tuesday	31.12	220	1407	<1	2.235	8.770
7/8/2020	Wednesday	31.60	218.2		<1	2.215	7.662
7/14/2020	Tuesday	46.70	1000		1.208	3.058	9.656
7/15/2020	Wednesday	36.43	340.6		1.067	2.368	9.730

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

Field's Point Influent Metals, Al-Mo, 2020
all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo
7/21/2020	Tuesday	31.25	323.8		1.246	2.102	13.42
7/22/2020	Wednesday	31.98	620.4		1.169	2.243	11.45
7/28/2020	Tuesday	47.10	725.3		1.273	2.495	11.10
7/29/2020	Wednesday	44.14	373.5		<1	1.957	10.34
8/4/2020	Tuesday	35.30	694.9	2288	1.377	2.709	8.446
8/5/2020	Wednesday	35.71	413.9		<1	2.344	7.435
8/11/2020	Tuesday	29.72	414.2		1.717	2.974	14.25
8/12/2020	Wednesday	28.74	245.6		1.500	2.303	16.69
8/18/2020	Tuesday	31.40	400.5		1.644	2.534	13.03
8/19/2020	Wednesday	27.25	429.6		1.607	2.362	9.783
8/25/2020	Tuesday	27.79	551.1		1.945	3.540	11.82
8/26/2020	Wednesday	29.15	564.7		1.477	2.404	13.13
9/1/2020	Tuesday	26.99	255.4		2.262	2.448	23.08
9/2/2020	Wednesday	37.43	433.1		1.584	2.505	8.073
9/8/2020	Tuesday	27.56	263.7		2.074	2.432	16.72
9/9/2020	Wednesday	28.68	324		1.765	2.464	9.710
9/15/2020	Tuesday	26.12	244.9	1369	2.368	2.191	10.11
9/16/2020	Wednesday	26.27	194.5		1.313	2.224	8.925
9/22/2020	Tuesday	27.89	243.3		1.844	2.113	11.26
9/23/2020	Wednesday	27.51	249.1		2.439	1.983	11.18
9/29/2020	Tuesday	35.09	530.8		2.488	2.339	21.40
9/30/2020	Wednesday	41.24	406.6		1.545	2.243	17.13
10/6/2020	Tuesday	26.69	214.8	1307	2.280	2.239	10.88
10/7/2020	Wednesday	29.36	375.3		1.496	2.791	14.19
10/13/2020	Tuesday	55.94	411.9		<1	1.793	5.954
10/14/2020	Wednesday	28.44	236.6		1.694	1.919	9.444
10/20/2020	Tuesday	36.06	421.4		1.324	2.057	8.310
10/21/2020	Wednesday	28.93	231.5		5.089	1.958	12.64
10/27/2020	Tuesday	28.89	306.1		2.127	1.959	12.11
10/28/2020	Wednesday	31.58	283.2		1.707	1.791	11.57
11/3/2020	Tuesday	38.02	218	1221	1.366	2.071	7.543
11/4/2020	Wednesday	30.31	193.2		1.792	2.609	8.046
11/10/2020	Tuesday	28.43	226.6		1.864	1.909	14.31
11/11/2020	Wednesday	32.71	283.5		1.700	2.015	11.05
11/17/2020	Tuesday	29.66	159.5		2.180	1.944	16.53
11/18/2020	Wednesday	28.28	190.6		2.632	1.916	16.96
11/24/2020	Tuesday	56.03	219.6		1.613	1.455	7.726
11/25/2020	Wednesday	49.46	245.1		1.575	1.719	7.682
12/1/2020	Tuesday	71.76	258		1.338	1.990	4.410
12/2/2020	Wednesday	68.35	138.1		1.167	1.753	4.909
12/8/2020	Tuesday	75.27	109.3	763.4	1.284	1.543	4.012
12/9/2020	Wednesday	63.68	125.5		1.247	1.778	2.558
12/15/2020	Tuesday	41.20	141.2		1.945	2.669	11.19
12/16/2020	Wednesday	44.44	192.5		3.083	2.765	10.62
12/22/2020	Tuesday	41.73	210.2		1.790	3.112	11.46
12/23/2020	Wednesday	37.74	184.8		2.462	3.265	6.055
12/29/2020	Tuesday	70.15	118.1		<1	2.103	3.024
12/30/2020	Wednesday	66.27	193.7		<1	2.231	2.098

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/1/2020	Wednesday	60.06	<0.020	0.9476		1.921	0.3646		6.209	<0.020	19.41	5.25	<4
1/7/2020	Tuesday	42.36	<0.020	1.278	<10	2.115	0.3735	0.00204	11.42	<0.020	21.35	4.73	<4
1/8/2020	Wednesday	41.04	0.02040	1.181		2.351	0.3773		10.85	<0.020	22.82	<4	<4
1/14/2020	Tuesday	39.72	0.02051	1.638		3.012	0.3150		11.98	<0.020	24.61	5.02	<4
1/15/2020	Wednesday	39.23	<0.020	1.280		2.732	0.3341		12.45	<0.020	23.85	5.21	<4
1/21/2020	Tuesday	36.77	0.02780	1.070		2.768	0.3072		14.20	0.02519	24.92	5.27	<4
1/22/2020	Wednesday	35.41	0.02247	1.096		2.746	<0.300		13.81	0.02096	26.18	4.12	<4
1/28/2020	Tuesday	35.53	0.02713	1.546		3.135	0.3214		11.65	<0.020	29.39	<4	<4
1/29/2020	Wednesday	37.31	0.02919	1.414		3.239	0.3118		12.74	<0.020	29.21	6.04	<4
2/4/2020	Tuesday	35.55	0.02917	1.410		3.005	<0.300	0.00189	14.51	0.02113	26.88	7.08	<4
2/5/2020	Wednesday	38.79	0.02789	1.239		2.861	<0.300		13.35	0.02062	26.14	5.04	<4
2/11/2020	Tuesday	48.47	0.03249	1.119	<10	3.383	0.3252		10.16	0.1345	32.33	4.37	<4
2/12/2020	Wednesday	47.20	0.02198	1.029		3.402	0.3084		9.801	0.1007	26.90	5.11	<4
2/18/2020	Tuesday	39.16	0.02163	0.9996		2.747	<0.300		13.25	0.07287	28.65	5.40	<4
2/19/2020	Wednesday	35.40	0.02209	0.9183		2.965	<0.300		14.76	0.06337	30.10	4.20	<4
2/25/2020	Tuesday	37.89	<0.020	1.016		2.710	<0.300		14.17	0.04654	27.21	5.77	<4
2/26/2020	Wednesday	43.05	<0.020	1.117		2.629	0.3092		13.30	0.04240	23.62	<4	<4
3/3/2020	Tuesday	45.80	<0.020	1.048	<10	2.790	0.3710	*	8.974	0.04671	24.35	4.74	<4
3/4/2020	Wednesday	33.98	<0.020	0.8744		2.372	<0.300		9.829	0.03278	28.47	5.31	<4
3/10/2020	Tuesday	32.47	<0.020	1.109		2.076	<0.300		10.64	0.02608	23.59	<4	<4
3/11/2020	Wednesday	34.67	<0.020	1.095		2.306	<0.300		11.31	0.02700	26.54	<4	<4
3/17/2020	Tuesday	34.77	<0.020	1.354		2.294	<0.300		9.943	0.02703	28.53	19.3	12.7
3/18/2020	Wednesday	37.22	<0.020	0.9007		2.955	<0.300		9.873	0.02113	28.85	<4	<4
3/24/2020	Tuesday	65.97	<0.020	0.6355		2.076	<0.300		6.280	0.02156	23.45	4.73	4.73
3/25/2020	Wednesday	66.82	<0.020	0.6774		2.881	0.3151		7.314	0.03576	25.98	<4	<4
3/31/2020	Tuesday	43.26	<0.020	0.9123		2.326	0.3662		10.31	0.02282	23.53	5.22	<4
4/1/2020	Wednesday	43.30	<0.020	1.052		2.380	<0.300		10.48	0.02275	20.71	4.12	<4
4/7/2020	Tuesday	44.05	0.02455	1.058	<10	3.166	<0.300	0.00180	9.117	<0.020	22.82	<4	<4
4/8/2020	Wednesday	44.47	<0.020	1.108		2.888	<0.300		9.543	<0.020	21.97	<4	<4
4/14/2020	Tuesday	69.68	<0.020	0.7351		2.051	0.3338		6.534	<0.020	21.34	4.66	<4
4/15/2020	Wednesday	71.71	0.02086	0.7269		2.079	0.3349		7.271	0.02537	21.08	<4	<4
4/21/2020	Tuesday	60.24	0.02239	0.8851		2.300	0.3370		10.20	<0.020	48.82	7.47	<4
4/22/2020	Wednesday	60.37	<0.020	0.9869		2.270	0.3188		10.70	<0.020	23.60	4.79	<4
4/28/2020	Tuesday	47.03	0.02105	0.9263		2.318	<0.300		9.374	<0.020	20.87	<4	<4
4/29/2020	Wednesday	48.35	0.02069	0.9736		2.344	<0.300		9.024	<0.020	20.89	<4	<4
5/5/2020	Tuesday	62.09	<0.020	0.7611	<10	1.623	<0.300	0.00253	8.110	0.02336	16.42	<4	<4
5/6/2020	Wednesday	51.82	<0.020	0.9239		1.965	0.3454		9.632	<0.020	18.12	<4	<4
5/12/2020	Tuesday	44.14	<0.020	0.9595		2.071	0.3172		9.681	<0.020	17.06	<4	<4
5/13/2020	Wednesday	42.40	<0.020	1.007		2.039	0.3393		10.98	<0.020	17.72	<4	<4
5/19/2020	Tuesday	38.17	<0.020	1.248		1.854	0.3238		10.23	<0.020	19.75	<4	<4
5/20/2020	Wednesday	38.32	<0.020	1.028		1.719	0.3384		9.924	0.02478	20.31	4.17	4.17

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
5/26/2020	Tuesday	36.85	<0.020	1.215		2.686	0.3137		9.593	<0.020	21.54	<4	<4
5/27/2020	Wednesday	35.04	<0.020	1.126		1.852	<0.300		10.75	<0.020	19.49	<4	<4
6/2/2020	Tuesday	34.27	<0.020	1.029	<10	1.741	<0.300	<0.001	12.20	<0.020	18.26	<4	<4
6/3/2020	Wednesday	34.94	<0.020	1.091		2.050	<0.300		11.93	<0.020	18.78	<4	<4
6/9/2020	Tuesday	31.79	<0.020	1.037		1.626	0.3271		9.958	<0.020	20.82	<4	<4
6/10/2020	Wednesday	35.13	<0.020	1.046		2.298	0.3387		10.14	0.02020	20.38	<4	<4
6/16/2020	Tuesday	31.77	<0.020	1.057		1.590	<0.300		10.42	<0.020	19.93	<4	<4
6/17/2020	Wednesday	33.14	<0.020	1.102		2.252	<0.300		12.22	<0.020	23.67	<4	<4
6/23/2020	Tuesday	32.49	<0.020	0.9942		2.089	0.3072		10.84	<0.020	20.69	<4	<4
6/24/2020	Wednesday	32.80	<0.020	1.106		1.901	<0.300		10.77	<0.020	20.97	<4	<4
6/30/2020	Tuesday	41.62	<0.020	0.7276		1.496	0.4082		10.84	<0.020	21.93	<4	<4
7/1/2020	Wednesday	38.72	<0.020	0.6024		1.242	0.4355		9.797	<0.020	27.45	6.04	<4
7/7/2020	Tuesday	31.12	<0.020	0.7553	<10	1.495	0.3848	*	8.068	<0.020	23.86	<4	<4
7/8/2020	Wednesday	31.60	<0.020	0.8122		1.899	0.4335		11.30	<0.020	26.92	<4	<4
7/14/2020	Tuesday	46.70	<0.020	1.122		2.107	0.5156		10.12	<0.020	18.91	<4	<4
7/15/2020	Wednesday	36.43	<0.020	1.030		1.491	0.3429		11.07	<0.020	23.80	<8	<4
7/21/2020	Tuesday	31.25	<0.020	0.8652		2.226	0.3769		13.67	<0.020	24.05	<4	<4
7/22/2020	Wednesday	31.98	<0.020	0.7410		1.612	0.3590		12.41	<0.020	24.69	<4	<4
7/28/2020	Tuesday	47.10	<0.020	0.8925		2.643	0.5485		9.793	0.02195	18.41	<4	<4
7/29/2020	Wednesday	44.14	<0.020	0.9596		1.702	0.3702		18.16	<0.020	18.92	<4	<4
8/4/2020	Tuesday	35.30	<0.020	0.8168	<10	2.022	0.4685	0.00215	12.82	<0.020	21.10	<8	<4
8/5/2020	Wednesday	35.71	<0.020	0.8547		1.533	0.3801		12.42	<0.020	20.34	<4	<4
8/11/2020	Tuesday	29.72	<0.020	0.7892		2.365	0.3911		12.82	<0.020	22.83	<4	<4
8/12/2020	Wednesday	28.74	<0.020	0.8469		2.345	0.3729		18.28	<0.020	21.56	4.18	<4
8/18/2020	Tuesday	31.40	<0.020	1.142		2.364	0.3559		10.84	<0.020	22.74	<4	<4
8/19/2020	Wednesday	27.25	<0.020	0.9617		1.843	0.3854		12.16	<0.020	23.80	<4	<4
8/25/2020	Tuesday	27.79	<0.020	1.091		1.652	0.3337		13.62	<0.020	21.09	<4	<4
8/26/2020	Wednesday	29.15	<0.020	1.126		1.539	0.3290		12.87	<0.020	18.64	<4	<4
9/1/2020	Tuesday	26.99	<0.020	0.9833		1.794	0.4241		11.64	<0.020	19.72	<4	<4
9/2/2020	Wednesday	37.43	<0.020	0.9092		1.569	0.3866		10.46	<0.020	19.90	4.53	<4
9/8/2020	Tuesday	27.56	<0.020	0.8955		1.613	0.3566		12.51	<0.020	19.68	4.24	<4
9/9/2020	Wednesday	28.68	<0.020	0.8452		1.546	0.3381		14.64	<0.020	18.20	<8	<4
9/15/2020	Tuesday	26.12	<0.020	1.215	<10	1.735	0.3058	0.00178	14.35	<0.020	19.57	<8	<4
9/16/2020	Wednesday	26.27	<0.020	1.064		1.829	0.3820		15.26	<0.020	19.38	<8	<4
9/22/2020	Tuesday	27.89	<0.020	0.9056		1.911	0.3071		14.43	0.02787	21.28	<4	<4
9/23/2020	Wednesday	27.51	<0.020	0.9253		1.708	<0.300		15.18	0.02273	20.95	<4	<4
9/29/2020	Tuesday	35.09	<0.020	0.8801		2.920	0.3884		12.73	0.02806	23.60	<4	<4
9/30/2020	Wednesday	41.24	<0.020	1.512		1.923	<0.300		9.937	<0.020	21.58	<4	<4
10/6/2020	Tuesday	26.69	<0.020	1.696	11	2.269	0.3167	0.00153	12.67	<0.020	26.02	<8	<4
10/7/2020	Wednesday	29.36	<0.020	1.519		2.901	0.3075		15.45	<0.020	23.87	<8	<4
10/13/2020	Tuesday	55.94	<0.020	0.9651		2.173	0.3272		7.624	<0.020	19.63	<8	<4
10/14/2020	Wednesday	28.44	<0.020	0.8262		1.836	<0.300		10.07	<0.020	21.36	<8	<4

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

Field's Point Effluent Metals (Cd-Zn) and Cyanide, 2020
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
10/20/2020	Tuesday	36.06	<0.020	0.6532		2.300	<0.300		12.28	<0.020	24.57	<4	<4
10/21/2020	Wednesday	28.93	<0.020	0.7889		2.437	<0.300		15.22	<0.020	24.68	<4	<4
10/27/2020	Tuesday	28.89	<0.020	0.7192		2.369	<0.300		14.70	<0.020	21.94	<4	<4
10/28/2020	Wednesday	31.58	<0.020	0.7616		2.112	0.3267		13.47	0.02416	21.66	<4	<4
11/3/2020	Tuesday	38.02	<0.020	0.9058	<10	2.259	0.3767	0.00296	9.899	0.02154	26.74	<4	<4
11/4/2020	Wednesday	30.31	<0.020	0.9789		2.224	0.3265		12.99	<0.020	25.82	<4	<4
11/10/2020	Tuesday	28.43	<0.020	0.7943		1.918	<0.300		11.78	<0.020	20.99	<4	<4
11/11/2020	Wednesday	32.71	<0.020	0.8735		2.238	<0.300		14.01	<0.020	21.25	<4	<4
11/17/2020	Tuesday	29.66	<0.020	0.8498		2.066	<0.300		16.44	<0.020	24.01	<4	<4
11/18/2020	Wednesday	28.28	<0.020	0.7860		2.078	<0.300		15.78	<0.020	23.17	<4	<4
11/24/2020	Tuesday	56.03	<0.020	0.7940		2.420	0.4114		12.96	0.02812	19.83	<4	<4
11/25/2020	Wednesday	49.46	<0.020	0.7786		2.300	0.3768		13.02	0.02223	19.26	<4	<4
12/1/2020	Tuesday	71.76	0.02393	1.075		3.281	0.6444		8.784	0.03560	19.08	5.85	<4
12/2/2020	Wednesday	68.35	<0.020	1.044		2.693	0.5008		9.601	0.02744	19.49	4.13	<4
12/8/2020	Tuesday	75.27	0.02584	1.680	<10	4.281	0.7882	0.00216	9.099	0.04394	22.72	6.26	<4
12/9/2020	Wednesday	63.68	0.02198	1.017		2.805	0.4462		9.356	0.02645	22.20	<4	<4
12/15/2020	Tuesday	41.20	0.02359	1.408		2.332	0.3037		12.21	<0.020	21.27		
12/16/2020	Wednesday	44.44	<0.020	1.082		2.374	<0.300		12.85	<0.020	19.93	4.57	<4
12/17/2020	Thursday	39.56										4.49	<4
12/22/2020	Tuesday	41.73	0.02020	1.259		2.105	<0.300		10.37	0.02325	20.40	4.10	<4
12/23/2020	Wednesday	37.74	0.02006	1.381		2.472	<0.300		10.56	0.02422	22.08	4.86	<4
12/29/2020	Tuesday	70.15	0.02160	0.6978		2.144	0.3180		5.598	0.02591	17.40	5.78	<4
12/30/2020	Wednesday	66.27	<0.020	0.7452		2.479	<0.300		6.564	<0.020	16.89	4.18	<4

*Mercury sampling not conducted in March and July due to COVID-19 impacts and analyzer issues

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

Field's Point Effluent Metals, Al - Mo, 2020
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Al	Fe	Se	As	Mo
1/1/2020	Wednesday	60.06	24.43		<1	2.244	3.479
1/7/2020	Tuesday	42.36	10.94	132.9	<1	3.008	3.875
1/8/2020	Wednesday	41.04	10.27		<1	2.902	3.794
1/14/2020	Tuesday	39.72	8.605		<1	2.649	4.625
1/15/2020	Wednesday	39.23	8.853		<1	2.788	4.497
1/21/2020	Tuesday	36.77	10.23		<1	2.769	6.527
1/22/2020	Wednesday	35.41	9.185		<1	2.865	7.606
1/28/2020	Tuesday	35.53	9.440		1.292	3.058	8.346
1/29/2020	Wednesday	37.31	9.550		<1	3.113	8.994
2/4/2020	Tuesday	35.55	9.559	119.1	1.955	2.776	10.37
2/5/2020	Wednesday	38.79	9.836		1.150	2.638	8.416
2/11/2020	Tuesday	48.47	9.311		<1	2.192	6.379
2/12/2020	Wednesday	47.20	9.064		<1	2.153	5.039
2/18/2020	Tuesday	39.16	8.758		<1	2.192	8.535
2/19/2020	Wednesday	35.40	8.111		1.040	2.014	9.154
2/25/2020	Tuesday	37.89	7.640		<1	2.035	10.07
2/26/2020	Wednesday	43.05	12.06		1.155	1.869	8.345
3/3/2020	Tuesday	45.80	8.699	109.6	<1	1.901	5.464
3/4/2020	Wednesday	33.98	12.83		<1	1.569	4.763
3/10/2020	Tuesday	32.47	7.047		<1	2.053	5.543
3/11/2020	Wednesday	34.67	9.675		1.253	2.265	12.96
3/17/2020	Tuesday	34.77	6.170		<1	1.773	5.572
3/18/2020	Wednesday	37.22	7.268		<1	1.861	9.095
3/24/2020	Tuesday	65.97	9.694		<1	1.221	5.027
3/25/2020	Wednesday	66.82	9.157		<1	1.441	5.108
3/31/2020	Tuesday	43.26	8.202		<1	2.047	7.594
4/1/2020	Wednesday	43.30	7.997		<1	2.040	8.272
4/7/2020	Tuesday	44.05	14.15	73.83	<1	2.209	10.98
4/8/2020	Wednesday	44.47	7.257		<1	2.311	9.296
4/14/2020	Tuesday	69.68	9.509		<1	1.611	4.025
4/15/2020	Wednesday	71.71	10.35		<1	1.628	4.035
4/21/2020	Tuesday	60.24	11.93		1.516	1.959	6.900
4/22/2020	Wednesday	60.37	8.830		<1	2.053	7.528
4/28/2020	Tuesday	47.03	8.043		<1	1.908	5.269
4/29/2020	Wednesday	48.35	7.783		<1	2.133	4.994
5/5/2020	Tuesday	62.09	8.602	81.69	<1	1.600	5.804
5/6/2020	Wednesday	51.82	8.671		1.151	1.698	7.201
5/12/2020	Tuesday	44.14	8.803		<1	2.213	3.643
5/13/2020	Wednesday	42.40	8.579		<1	2.171	3.733
5/19/2020	Tuesday	38.17	7.406		<1	2.881	6.002
5/20/2020	Wednesday	38.32	9.867		<1	2.422	18.81
5/26/2020	Tuesday	36.85	6.516		<1	2.577	6.984
5/27/2020	Wednesday	35.04	6.459		<1	2.405	15.49
6/2/2020	Tuesday	34.27	5.843	91.40	<1	2.354	4.911
6/3/2020	Wednesday	34.94	6.280		<1	2.334	5.873
6/9/2020	Tuesday	31.79	6.100		<1	1.908	10.52
6/10/2020	Wednesday	35.13	6.722		<1	1.968	10.36
6/16/2020	Tuesday	31.77	5.469		<1	1.770	5.811
6/17/2020	Wednesday	33.14	6.721		<1	1.705	6.185
6/23/2020	Tuesday	32.49	6.236		<1	1.736	7.452
6/24/2020	Wednesday	32.80	6.340		<1	1.556	7.009
6/30/2020	Tuesday	41.62	8.651		<1	1.339	5.887
7/1/2020	Wednesday	38.72	8.205		<1	1.058	5.112

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

Field's Point Effluent Metals, Al - Mo, 2020
all analyses in ppb

Date	Day of the Week	Total Eff Flow (MGD)	Al	Fe	Se	As	Mo
7/7/2020	Tuesday	31.12	6.515	171.6	<1	1.567	8.849
7/8/2020	Wednesday	31.60	6.082		<1	1.519	6.720
7/14/2020	Tuesday	46.70	12		<1	1.684	7.175
7/15/2020	Wednesday	36.43	6.781		<1	1.814	7.923
7/21/2020	Tuesday	31.25	6.539		<1	1.861	10.19
7/22/2020	Wednesday	31.98	7.423		<1	1.601	11.40
7/28/2020	Tuesday	47.10	13.75		<1	1.722	8.466
7/29/2020	Wednesday	44.14	7.854		<1	1.611	8.454
8/4/2020	Tuesday	35.30	10.47	295.6	<1	1.670	7.234
8/5/2020	Wednesday	35.71	7.834		<1	1.654	7
8/11/2020	Tuesday	29.72	7.304		<1	1.799	10.28
8/12/2020	Wednesday	28.74	7.697		<1	1.720	12.93
8/18/2020	Tuesday	31.40	6.853		<1	1.652	10.89
8/19/2020	Wednesday	27.25	7.457		<1	1.722	9.446
8/25/2020	Tuesday	27.79	8.085		1.043	2.043	10.46
8/26/2020	Wednesday	29.15	8.740		<1	1.766	10.84
9/1/2020	Tuesday	26.99	10.53		<1	1.873	15.11
9/2/2020	Wednesday	37.43	9.544		<1	1.651	7.989
9/8/2020	Tuesday	27.56	8.106		<1	1.864	11.66
9/9/2020	Wednesday	28.68	8.056		<1	1.575	8.464
9/15/2020	Tuesday	26.12	7.873	260.9	<1	1.689	7.945
9/16/2020	Wednesday	26.27	7.864		<1	1.744	8.152
9/22/2020	Tuesday	27.89	9.245		<1	1.705	8.567
9/23/2020	Wednesday	27.51	8.404		<1	1.579	8.519
9/29/2020	Tuesday	35.09	10.02		<1	1.543	12.96
9/30/2020	Wednesday	41.24	7.614		<1	1.451	12.74
10/6/2020	Tuesday	26.69	6.926	137.1	1.079	1.624	10.93
10/7/2020	Wednesday	29.36	7.559		<1	1.722	12.47
10/13/2020	Tuesday	55.94	8.387		<1	1.193	4.413
10/14/2020	Wednesday	28.44	6.592		<1	1.147	6.344
10/20/2020	Tuesday	36.06	6.857		<1	1.489	7.272
10/21/2020	Wednesday	28.93	6.083		1.023	1.443	10.04
10/27/2020	Tuesday	28.89	7.302		<1	1.483	10.58
10/28/2020	Wednesday	31.58	7.899		<1	1.376	12.83
11/3/2020	Tuesday	38.02	8.740	221.9	<1	1.597	7.599
11/4/2020	Wednesday	30.31	7.373		<1	1.594	7.924
11/10/2020	Tuesday	28.43	5.869		<1	1.552	9.583
11/11/2020	Wednesday	32.71	5.293		<1	1.384	10.69
11/17/2020	Tuesday	29.66	6.678		<1	1.586	11.38
11/18/2020	Wednesday	28.28	6.507		1.331	1.524	15.28
11/24/2020	Tuesday	56.03	9.976		1.029	1.285	8.047
11/25/2020	Wednesday	49.46	8.828		<1	1.344	7.182
12/1/2020	Tuesday	71.76	21.33		1.028	1.367	4.530
12/2/2020	Wednesday	68.35	14.48		1.267	1.486	5.625
12/8/2020	Tuesday	75.27	24.49	231.1	1.207	1.459	4.217
12/9/2020	Wednesday	63.68	12.54		1.048	1.412	3.286
12/15/2020	Tuesday	41.20	7.345		1.488	2.341	9.662
12/16/2020	Wednesday	44.44	6.623		1.706	2.285	9.802
12/22/2020	Tuesday	41.73	6.937		1.307	2.484	10.90
12/23/2020	Wednesday	37.74	7.037		1.357	2.565	6.990
12/29/2020	Tuesday	70.15	8.320		<1	1.877	5.410
12/30/2020	Wednesday	66.27	7.949		<1	1.887	2.061

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Influent Metals (ppb)										Available
			Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	CN
1/1/2020	Wednesday	22.05	0.1344	1.194		27.06	3.517		6.138	0.9475	61.50	6.13	<4
1/7/2020	Tuesday	21.45	0.1275	1.428	23	33.50	1.974	0.0171	7.051	1.406	65.85	<4	<4
1/8/2020	Wednesday	20.99	0.1319	3.359		40.25	2.333		13.50	0.8590	68.67	<4	<4
1/14/2020	Tuesday	19.78	0.1326	1.406		45.66	2.423		10.31	1.672	85.56	4.53	<4
1/15/2020	Wednesday	18.86	0.2755	1.584		36.92	2.947		5.156	0.9697	101.4	<4	<4
1/21/2020	Tuesday	18.29	0.1307	3.160		33.38	1.929		9.437	0.7671	73.36	5.17	<4
1/22/2020	Wednesday	17.94	0.1319	5.923		39.89	2.617		9.506	2.537	83.40	<4	<4
1/28/2020	Tuesday	18.31	0.1067	1.418		30.41	1.968		8.066	1.242	71.89	<4	<4
1/29/2020	Wednesday	17.15	0.09912	2.965		29.74	1.675		11.17	1.178	61.84	<4	<4
2/4/2020	Tuesday	17.89	0.1615	2.410		53.26	3.226	0.0223	11.59	1.131	89.78	5.44	<4
2/5/2020	Wednesday	18.06	0.1198	3.689		36.37	3.513		15.21	1.085	73.56	<4	<4
2/11/2020	Tuesday	28.34	0.1535	2.538	23	57.47	4.872		21.23	1.702	86.42	<4	<4
2/12/2020	Wednesday	17.74	0.1196	3.403		32.02	3.851		5.908	0.9476	66.49	<4	<4
2/18/2020	Tuesday	21.31	0.3112	7.308		69.13	7.103		45.95	1.353	107.2	<4	<4
2/19/2020	Wednesday	18.04	0.1611	6.747		52.19	4.264		17.47	2.259	106.8	<4	<4
2/25/2020	Tuesday	17.95	0.1355	2.597		43.02	2.681		9.319	1.998	86.91	<4	<4
2/26/2020	Wednesday	18.01	0.1515	3.143		56.82	2.637		16.90	2.326	98.66	5.09	<4
3/3/2020	Tuesday	21.28	0.1433	2.488	31	49.28	3.593	*	10.73	1.878	91.69	4.56	<4
3/4/2020	Wednesday	18.03	0.1810	6.393		52.43	8.551		23.88	2.127	107.7	4.57	<4
3/10/2020	Tuesday	16.92	0.1127	2.954		32.36	2.222		5.758	0.8587	73.23	<4	<4
3/11/2020	Wednesday	16.23	0.1246	9.153		44.24	2.505		29.46	1.904	91.02	4.27	<4
3/17/2020	Tuesday	18.96	0.1473	2.148		45.43	5.550		13.21	1.101	97.98	6.84	<4
3/18/2020	Wednesday	16.04	0.1139	2.164		34.91	3.209		18.02	1.245	72.76	6.84	<4
3/24/2020	Tuesday	29.42	0.1419	4.598		46.75	8.732		12.10	1.623	91.83	<4	<4
3/25/2020	Wednesday	21.77	0.1294	1.807		26.69	2.697		9.219	0.9679	68.93	<4	<4
3/31/2020	Tuesday	21.13	0.1232	1.584		30.89	2.881		5.657	1.087	72.41	<4	<4
4/1/2020	Wednesday	21.63	0.1122	2.024		29.62	1.896		6.862	0.9032	63.65	<4	<4
4/7/2020	Tuesday	20.70	0.1266	1.185	26	37.36	2.114	0.00744	3.458	0.4615	77.10	<4	<4
4/8/2020	Wednesday	21.96	0.1166	3.802		30.46	2.940		11.95	1.590	67.37	4.12	<4
4/14/2020	Tuesday	29.12	0.1154	1.649		23.48	7.945		5.141	1.618	59.50	<4	<4
4/15/2020	Wednesday	27.36	0.1095	1.503		20.38	2.077		9.770	0.7923	53.39	<4	<4
4/21/2020	Tuesday	34.39	0.1423	1.404		30.98	3.322		4.838	0.3085	65.39	<4	<4
4/22/2020	Wednesday	24.42	0.1458	2.799		29.10	9.347		13.92	1.125	71.65	<4	<4
4/28/2020	Tuesday	25.14	0.1221	2.384		43.35	2.482		15.16	0.3517	73.46	<4	<4
4/29/2020	Wednesday	23.47	0.1306	3.375		32.30	1.847		8.298	0.6320	61.38	<4	<4
5/5/2020	Tuesday	25.23	0.1441	0.7389	18	30.90	2.368	0.00730	3.844	0.2886	76.21	<4	<4
5/6/2020	Wednesday	25.43	0.1090	1.273		23.45	1.876		17.23	0.6748	53.60	<4	<4
5/12/2020	Tuesday	22.34	0.1267	1.748		34.08	4.292		16.83	0.6014	84.90	<4	<4
5/13/2020	Wednesday	21.71	0.1221	2.064		26.11	1.910		9.967	0.9062	63.08	<4	<4
5/19/2020	Tuesday	20.17	0.1337	1.388		37.95	2.143		5.314	0.5444	79.15	11.1	<4
5/20/2020	Wednesday	19.37	0.1617	1.355		37.23	2.112		21.23	0.5350	82.86	5.40	<4
5/26/2020	Tuesday	18.00	0.1255	1.710		31.17	2.224		4.951	0.4234	70.68	<4	<4
5/27/2020	Wednesday	18.28	0.1713	2.830		86.80	7.366		51.66	0.9517	101.5	<4	<4
6/2/2020	Tuesday	17.00	0.1314	2.218	35	45.05	2.763	0.0436	14.53	1.217	102.5	<4	<4
6/3/2020	Wednesday	17.28	2.487	1.901		49.04	5.145		10.23	0.9619	111.2	<4	<4
6/9/2020	Tuesday	16.14	0.2223	1.535		52.84	2.885		10.81	0.8819	101	<4	<4

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	Available	
												CN	CN
6/10/2020	Wednesday	16.04	0.1724	4.157		56.52	3.997		18.03	0.8284	101.3	<4	<4
6/16/2020	Tuesday	17.14	0.2563	3.498		48.11	3.397		12.77	1.174	100.4	4.02	<4
6/17/2020	Wednesday	17.23	0.2024	2.488		55.91	2.728		8.639	0.7783	110	<4	<4
6/23/2020	Tuesday	13.85	0.1796	3.995		61.18	1.911		6.677	1.023	138.8	<4	<4
6/24/2020	Wednesday	18.34	0.1547	4.556		54.15	2.476		9.836	1.524	140.3	<4	<4
6/30/2020	Tuesday	16.07	0.2626	1.934		52.33	6.029		7.813	0.5649	113.7	<4	<4
7/1/2020	Wednesday	30.19	0.1903	1.804		56.81	7.244		10.09	1.029	121.1	<4	<4
7/7/2020	Tuesday	14.12	0.1487	3.396	39	70.13	4.223	*	8.526	0.8522	114.8	<4	<4
7/8/2020	Wednesday	14.13	0.1752	1.848		57.06	4.256		7.354	1.424	127.2	<4	<4
7/14/2020	Tuesday	17.68	0.2077	2.424		71.19	8.247		24.09	1.024	146.8	<4	<4
7/15/2020	Wednesday	13.63	0.1995	3.345		54.42	12.72		7.371	1.762	142.5	<4	<4
7/21/2020	Tuesday	12.12	0.1415	2.374		48.49	3.763		10.10	1.375	110.2	11.6	<4
7/22/2020	Wednesday	12.83	0.1647	1.858		75	5.225		9.064	2.808	128.9	9.11	9.11
7/28/2020	Tuesday	18.81	0.1896	2.686		64.83	4.780		6.513	1.362	139.1	<4	<4
7/29/2020	Wednesday	12.47	0.1836	4.629		62.13	14.97		7.803	3.370	159.6	<4	<4
8/4/2020	Tuesday	15.12	0.1917	5.159	55	74.44	7.657	0.0428	17.42	1.041	153.8	<4	<4
8/5/2020	Wednesday	12.00	0.1610	2.695		58.03	7.500		7.732	1.686	127.4	<4	<4
8/11/2020	Tuesday	12.71	0.1307	1.319		44.22	3.451		3.004	0.4899	96.08	<4	<4
8/12/2020	Wednesday	11.89	0.1768	3.374		60.91	4.368		14.52	2.441	125.9	<4	<4
8/18/2020	Tuesday	14.47	0.1797	12.11		59.66	5.536		9.825	1.749	125.6	8.04	<4
8/19/2020	Wednesday	12.14	0.1651	5.841		67.79	4.649		9.410	2.796	124.5	<4	<4
8/25/2020	Tuesday	11.73	0.2422	8.338		71.91	9.215		38.45	4.831	150	<4	<4
8/26/2020	Wednesday	11.23	0.1632	2.331		55.40	3.638		12.96	2.298	120.9	<4	<4
9/1/2020	Tuesday	11.55	0.1390	7.743		53.59	3.666		7.005	1.654	108.9	<4	<4
9/2/2020	Wednesday	16.75	0.2093	9.266		82.46	5.089		7.500	1.149	145.5	<4	<4
9/8/2020	Tuesday	11.22	0.1197	1.576		48.60	3.802		3.265	0.3916	117.8	<4	<4
9/9/2020	Wednesday	11.53	0.1631	8.520		53.29	3.816		9.915	1.023	130.1	<4	<4
9/15/2020	Tuesday	11.14	0.1640	3.062	85	62.63	4.736	0.035	8.849	1.912	127.6	<4	<4
9/16/2020	Wednesday	11.74	0.1835	3.215		63.98	9.629		30.19	1.278	134.6	<4	<4
9/22/2020	Tuesday	11.49	0.1470	3.354		65.37	4.789		33.02	1.565	125.4	<4	<4
9/23/2020	Wednesday	11.15	0.1482	2.539		61.08	6.085		10.20	2.471	126.1		
9/24/2020	Thursday	11.25										<4	<4
9/29/2020	Tuesday	11.66	0.1801	4.048		64.75	5.157		13.11	4.308	140.7	<4	<4
9/30/2020	Wednesday	24.78	0.2043	5.558		79.13	11.53		10.67	8.311	190.4	<4	<4
10/6/2020	Tuesday	11.39	0.1440	3.467	69	55.75	3.555	0.0227	10.24	3.538	116.9	<4	<4
10/7/2020	Wednesday	13.10	0.1628	2.641		80.78	4.598		18.57	2.591	116.8	<4	<4
10/13/2020	Tuesday	31.48	0.1387	4.108		46.20	7.135		5.264	1.537	113.3	<4	<4
10/14/2020	Wednesday	12.38	0.1336	32.06		41.02	6.481		20.31	4.684	101.8	4.40	<4
10/20/2020	Tuesday	13.79	0.1790	2.782		50.47	3.616		17.52	1.813	111.7	17.6	<4
10/21/2020	Wednesday	13.27	0.1643	4.603		51.80	4.258		12.85	2.081	121.7	<4	<4
10/27/2020	Tuesday	12.88	0.2429	26.11		67.54	4.618		11.09	1.393	122.3	<4	<4
10/28/2020	Wednesday	15.78	0.1770	5.855		73.63	5.819		12.83	2.110	138.5	<4	<4
11/3/2020	Tuesday	14.00	0.1561	16.52	47	48.63	3.074	0.0293	9.765	1.079	96.15	<4	<4
11/4/2020	Wednesday	14.26	0.1305	3.411		47.83	3.249		10.81	1.373	92.26	<4	<4
11/10/2020	Tuesday	14.30	0.1774	8.272		60.68	4.559		7.027	1.611	116.8	<4	<4

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

Bucklin Point Influent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available
													CN
11/11/2020	Wednesday	13.98	0.1533	3.916		50.45	4.239		7.364	0.9859	107.6	<4	<4
11/17/2020	Tuesday	13.28	0.1943	2.489		57.45	4.480		7.615	2.168	124.9	7.31	<4
11/18/2020	Wednesday	12.67	0.1414	4.519		61.53	3.618		7.797	1.530	104.3	9.70	<4
11/24/2020	Tuesday	14.80	0.1493	3.523		44.05	3.915		26.32	2.578	95.37	5.53	<4
11/25/2020	Wednesday	14.86	0.1818	3.796		51.43	4.604		8.834	1.196	89.12	4.89	<4
12/1/2020	Tuesday	40.82	0.1199	2.708		30.88	12.60		5.101	2.230	65.94	<4	<4
12/2/2020	Wednesday	22.37	0.1329	1.494		36.59	3.284		13.16	1.012	73.76	4.54	<4
12/8/2020	Tuesday	24.45	0.1333	1.914	23	30.39	2.807	0.00582	9.236	0.6436	73.67	5.24	<4
12/9/2020	Wednesday	23.50	0.1190	1.881		29.49	1.804		6.167	1.585	59.08	5.43	<4
12/15/2020	Tuesday	19.70	0.1388	3.254		42.14	4.355		8.178	1.476	77.08	5.25	<4
12/16/2020	Wednesday	19.35	0.1235	2.464		36.20	2.948		6.791	1.179	74.41	<4	<4
12/22/2020	Tuesday	19.01	0.1800	2.690		55.53	3.111		6.937	2.603	81.73	7.47	<4
12/23/2020	Wednesday	17.99	0.1522	4.134		50.58	4.431		10.41	1.407	83.44	4.39	<4
12/29/2020	Tuesday	26.69	0.1098	1.022		25.30	1.816		6.650	0.9690	51.35	5.29	<4
12/30/2020	Wednesday	25.83	0.1252	4.129		30.77	2.383		7.053	4.127	63.41	7.41	<4

**Mercury sampling not conducted in March and July due to COVID-19 impacts and analyzer issues*

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

Bucklin Point Influent Metals, Al-Sn, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
1/1/2020	Wednesday	22.05	172.8		<1	0.7346	1.337	
1/7/2020	Tuesday	21.45	178.6	686.2	<1	0.6649	3.730	<5
1/8/2020	Wednesday	20.99	523.8		<1	0.6913	5.875	
1/14/2020	Tuesday	19.78	214.4		<1	0.7193	2.893	
1/15/2020	Wednesday	18.86	216.6		<1	0.7393	2.480	
1/21/2020	Tuesday	18.29	179.5		<1	0.6498	3.201	
1/22/2020	Wednesday	17.94	200.6		<1	0.6817	4.148	
1/28/2020	Tuesday	18.31	171.9		<1	0.6685	5.666	
1/29/2020	Wednesday	17.15	150.1		<1	0.6192	16.40	
2/4/2020	Tuesday	17.89	234.2	845.5	<1	0.7249	6.007	<5
2/5/2020	Wednesday	18.06	684		<1	0.6333	2.272	
2/11/2020	Tuesday	28.34	384.4		<1	0.6626	2.157	
2/12/2020	Wednesday	17.74	241.9		<1	0.6257	2.613	
2/18/2020	Tuesday	21.31	466.9		<1	0.7626	2.509	
2/19/2020	Wednesday	18.04	324.1		<1	0.9338	5.413	
2/25/2020	Tuesday	17.95	205.5		<1	0.7649	5.350	
2/26/2020	Wednesday	18.01	261.1		<1	0.7619	2.820	
3/3/2020	Tuesday	21.28	230.9	924.6	<1	0.7658	5.188	<5
3/4/2020	Wednesday	18.03	441.3		<1	0.8503	6.171	
3/10/2020	Tuesday	16.92	174.1		<1	0.7064	3.922	
3/11/2020	Wednesday	16.23	192.9		<1	0.6921	11.92	
3/17/2020	Tuesday	18.96	284.6		<1	0.7322	8.431	
3/18/2020	Wednesday	16.04	214.7		<1	0.6389	5.341	
3/24/2020	Tuesday	29.42	796.1		<1	0.7822	3.250	
3/25/2020	Wednesday	21.77	184.2		<1	0.6830	2.572	
3/31/2020	Tuesday	21.13	184		<1	0.7461	11.13	
4/1/2020	Wednesday	21.63	160.2		<1	0.6378	3.827	
4/7/2020	Tuesday	20.70	186.2	679.5	<1	0.7199	2.463	<5
4/8/2020	Wednesday	21.96	155.5		<1	0.6485	1.674	
4/14/2020	Tuesday	29.12	303.3		<1	0.9738	3.610	
4/15/2020	Wednesday	27.36	143.2		<1	0.6465	1.914	
4/21/2020	Tuesday	34.39	154.3		<1	0.7078	3.743	
4/22/2020	Wednesday	24.42	322		<1	0.7953	1.860	
4/28/2020	Tuesday	25.14	196.4		<1	0.7136	3.899	
4/29/2020	Wednesday	23.47	549.1		<1	0.7368	3.871	
5/5/2020	Tuesday	25.23	164.4	658.3	<1	0.6308	2.046	<5
5/6/2020	Wednesday	25.43	146.4		<1	0.6088	3.679	
5/12/2020	Tuesday	22.34	235.8		<1	0.7185	4.421	
5/13/2020	Wednesday	21.71	151		<1	0.6649	3.675	
5/19/2020	Tuesday	20.17	187.6		<1	0.7280	2.924	
5/20/2020	Wednesday	19.37	276.4		<1	0.7132	1.518	
5/26/2020	Tuesday	18.00	161.5		<1	0.7429	4.625	
5/27/2020	Wednesday	18.28	223.1		<1	0.7761	14.17	
6/2/2020	Tuesday	17.00	219.9	796	<1	0.7514	4.187	<5
6/3/2020	Wednesday	17.28	1105		<1	0.8404	8.116	

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

Bucklin Point Influent Metals, Al-Sn, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
6/9/2020	Tuesday	16.14	217.5		<1	0.7854	5.902	
6/10/2020	Wednesday	16.04	465		<1	0.7813	2.998	
6/16/2020	Tuesday	17.14	828.8		<1	0.9714	8.879	
6/17/2020	Wednesday	17.23	287		<1	0.8900	7.895	
6/23/2020	Tuesday	13.85	308.3		<1	0.8731	3.421	
6/24/2020	Wednesday	18.34	295.9		<1	0.9330	13.62	
6/30/2020	Tuesday	16.07	364		<1	0.9031	3.299	
7/1/2020	Wednesday	30.19	361.2		<1	0.9565	5.150	
7/7/2020	Tuesday	14.12	268.1	947.3	<1	1	4.817	<5
7/8/2020	Wednesday	14.13	318.6		<1	0.9720	2.120	
7/14/2020	Tuesday	17.68	437.1		<1	1.019	4.787	
7/15/2020	Wednesday	13.63	554.2		<1	1.105	11.43	
7/21/2020	Tuesday	12.12	268.2		<1	0.9997	10.53	
7/22/2020	Wednesday	12.83	324.8		<1	0.9569	4.839	
7/28/2020	Tuesday	18.81	336		<1	1.062	7.017	
7/29/2020	Wednesday	12.47	598.9		<1	1.208	4.631	
8/4/2020	Tuesday	15.12	379.6	1727	<1	1.013	5.130	<5
8/5/2020	Wednesday	12.00	402.5		<1	1.049	7.448	
8/11/2020	Tuesday	12.71	237.1		<1	0.8285	2.676	
8/12/2020	Wednesday	11.89	410		<1	0.9302	4.166	
8/18/2020	Tuesday	14.47	1250		<1	0.8996	5.587	
8/19/2020	Wednesday	12.14	377.5		<1	0.9283	4.115	
8/25/2020	Tuesday	11.73	485.1		<1	1.025	5.282	
8/26/2020	Wednesday	11.23	285.8		<1	1.005	4.083	
9/1/2020	Tuesday	11.55	270.6		<1	0.8548	3.968	
9/2/2020	Wednesday	16.75	381.2		<1	1.022	7.766	
9/8/2020	Tuesday	11.22	244.9		<1	0.8242	2.597	
9/9/2020	Wednesday	11.53	326.6		<1	0.9484	22.73	
9/15/2020	Tuesday	11.14	287.3	863.1	<1	0.9054	10.39	<5
9/16/2020	Wednesday	11.74	391.2		<1	1.010	5.392	
9/22/2020	Tuesday	11.49	402		<1	0.9696	7.138	
9/23/2020	Wednesday	11.15	339.6		<1	0.8622	3.205	
9/29/2020	Tuesday	11.66	433.1		<1	0.8365	6.337	
9/30/2020	Wednesday	24.78	679.9		<1	1.091	4.490	
10/6/2020	Tuesday	11.39	286.1	1033	<1	0.8622	5.315	<25
10/7/2020	Wednesday	13.10	316.1		<1	0.7815	6.041	
10/13/2020	Tuesday	31.48	357		<1	0.6983	3.020	
10/14/2020	Wednesday	12.38	352.6		<1	0.8319	11.70	
10/20/2020	Tuesday	13.79	312.4		<1	0.8418	32.26	
10/21/2020	Wednesday	13.27	330.1		<1	0.7894	9.845	
10/27/2020	Tuesday	12.88	357.2		<1	0.8280	7.977	
10/28/2020	Wednesday	15.78	403.2		<1	0.8589	10.08	
11/3/2020	Tuesday	14.00	306.7	865.4	<1	0.7952	6.638	<5
11/4/2020	Wednesday	14.26	295.2		<1	0.8207	2.413	
11/10/2020	Tuesday	14.30	939		<1	0.7515	1.771	

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

Bucklin Point Influent Metals, Al-Sn, 2020

all analyses in ppb

Date	Day of the Week	Influent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
11/11/2020	Wednesday	13.98	477		<1	0.8672	9.091	
11/17/2020	Tuesday	13.28	392.9		<1	0.8073	4.885	
11/18/2020	Wednesday	12.67	448.1		<1	0.7909	7.509	
11/24/2020	Tuesday	14.80	349.8		<1	0.9804	3.446	
11/25/2020	Wednesday	14.86	296		<1	0.8033	3.796	
12/1/2020	Tuesday	40.82	502.2		<1	1.080	2.869	
12/2/2020	Wednesday	22.37	224.1		<1	0.8783	12.08	
12/8/2020	Tuesday	24.45	219.3	716	<1	0.7542	2.407	<5
12/9/2020	Wednesday	23.50	177.3		<1	0.7132	2.416	
12/15/2020	Tuesday	19.70	468.2		<1	0.8289	3.178	
12/16/2020	Wednesday	19.35	198.4		<1	0.7258	3.082	
12/22/2020	Tuesday	19.01	209.5		<1	0.7974	9.716	
12/23/2020	Wednesday	17.99	978.8		<1	0.6888	2.066	
12/29/2020	Tuesday	26.69	129.3		<1	0.7253	6.028	
12/30/2020	Wednesday	25.83	696.5		<1	0.7026	2.237	

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
1/1/2020	Wednesday	22.05	0.03147	0.4342		6.204	0.5313		4.578	0.1386	38.58	<4	<4
1/7/2020	Tuesday	21.45	0.04315	0.5451	<10	7.23	0.5182	0.00339	6.753	0.1373	45.55	<4	<4
1/8/2020	Wednesday	20.99	0.03827	0.5511		6.038	0.461		8.596	0.1224	39.31	<4	<4
1/14/2020	Tuesday	19.78	0.03883	0.441		7.641	0.4477		7.029	0.1099	41.7	4.12	<4
1/15/2020	Wednesday	18.86	0.03836	0.4031		7.286	0.4171		5.841	0.09197	40.4	<4	<4
1/21/2020	Tuesday	18.29	0.05157	1.217		11.53	0.6599		7.261	0.245	51.23	4.11	<4
1/22/2020	Wednesday	17.94	0.03545	1.249		7.33	0.4841		8.191	0.1142	45.97	4.83	<4
1/28/2020	Tuesday	18.31	0.0363	0.5171		5.66	0.4906		7.539	0.09823	43.09	<4	<4
1/29/2020	Wednesday	17.15	0.04028	0.727		5.904	0.4962		8.969	0.1034	41.05	4.48	<4
2/4/2020	Tuesday	17.89	0.0455	0.5437		6.112	0.4864	0.00272	8.043	0.1043	40.46	<4	<4
2/5/2020	Wednesday	18.06	0.03575	0.5839		6.031	0.495		10.13	0.1135	39.93	<4	<4
2/11/2020	Tuesday	28.34	0.02966	0.6528	<10	6.058	0.4652		9.681	0.0727	38.45	<4	<4
2/12/2020	Wednesday	17.74	0.03725	0.905		7.442	0.4741		9.957	0.07753	44.15	<4	<4
2/18/2020	Tuesday	21.31	0.06784	1.368		6.988	0.4827		11.19	0.07859	41.04	<4	<4
2/19/2020	Wednesday	18.04	0.03738	1.262		5.961	0.3993		11.88	0.05738	38.11	<4	<4
2/25/2020	Tuesday	17.95	0.0404	0.7225		4.916	0.4127		7.101	0.05363	36.45	<4	<4
2/26/2020	Wednesday	18.01	0.04016	0.882		5.91	0.4415		9.573	0.07001	38.9	<4	<4
3/3/2020	Tuesday	21.28	0.03711	0.7369	<10	3.693	0.4634	*	9.441	0.05735	40.51	<4	<4
3/4/2020	Wednesday	18.03	0.02601	0.817		4.246	0.4463		10.65	0.06163	39.59	<4	<4
3/10/2020	Tuesday	16.92	0.03939	0.9347		4.357	0.4345		11.09	0.04857	44.02	<4	<4
3/11/2020	Wednesday	16.23	0.03869	0.9004		4.993	0.4926		12.13	0.05332	43.28	<4	<4
3/17/2020	Tuesday	18.96	0.03777	0.513		4.439	0.5662		9.596	0.04383	42.51	<4	<4
3/18/2020	Wednesday	16.04	0.03481	0.6049		4.783	0.5199		12.02	0.04436	41.95	<4	<4
3/24/2020	Tuesday	25.04	0.02174	0.5455		4.276	0.337		7.286	0.05387	32.55	<4	<4
3/25/2020	Wednesday	21.77	0.02501	0.4868		4.323	0.35		11.46	0.05706	34.72	<4	<4
3/31/2020	Tuesday	21.13	0.02275	0.4224		3.09	0.4296		4.656	0.04645	38.65	<4	<4
4/1/2020	Wednesday	21.63	0.02289	0.4915		3.299	0.3959		5.235	0.04871	37.16	<4	<4
4/7/2020	Tuesday	20.7	0.02707	0.3825	<10	3.165	0.4015	0.00176	4.03	0.03724	35.39	<4	<4
4/8/2020	Wednesday	21.96	0.02597	0.6088		3.552	0.353		7.225	0.04085	33.99	<4	<4
4/14/2020	Tuesday	29.12	0.02796	0.6041		5.466	0.7361		4.741	0.1311	35.23	4.16	<4
4/15/2020	Wednesday	27.36	0.03109	0.4125		3.359	0.5161		6.631	0.09319	31.98	5.64	<4
4/21/2020	Tuesday	30.6	0.02205	0.5469		3.516	0.4318		7.066	0.06055	29.66	<4	<4
4/22/2020	Wednesday	24.42	0.02387	0.5054		4.328	0.4688		7.971	0.07844	31.24	<4	<4
4/28/2020	Tuesday	25.14	0.02349	0.5409		3.991	0.4499		16.97	0.05856	33.9	<4	<4
4/29/2020	Wednesday	23.47	0.02464	0.7057		4.383	0.452		15.64	0.05566	37.97	<4	<4
5/5/2020	Tuesday	25.23	0.02453	0.3848	<10	4.051	0.4369	0.00187	7.575	0.04842	32.92	<4	<4
5/6/2020	Wednesday	25.43	0.02443	0.4097		4.418	0.4118		10.8	0.04566	31.57	<4	<4
5/12/2020	Tuesday	22.34	0.03232	0.4522		4.959	0.396		10.72	0.05117	34.25	<4	<4
5/13/2020	Wednesday	21.71	0.03973	0.4795		6.365	0.4847		10.75	0.05675	43.68	<4	<4
5/19/2020	Tuesday	20.17	0.05159	0.456		7.045	0.5654		8.127	0.07756	44.44	<4	<4
5/20/2020	Wednesday	19.37	0.03941	0.5067		6.956	0.5626		12.32	0.07518	40.96	<4	<4
5/26/2020	Tuesday	18	0.0457	0.4424		7.828	0.5399		10.2	0.07754	38.79	<4	<4
5/27/2020	Wednesday	18.28	0.03991	0.576		8.211	0.5571		23.08	0.07787	42.27	<4	<4
6/2/2020	Tuesday	17	0.03003	0.524	<10	5.463	0.4531	0.00187	17.6	0.04954	44.22	<4	<4

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
6/3/2020	Wednesday	17.28	0.054	0.5404		4.575	0.4768		14.69	0.04241	45.41	<4	<4
6/9/2020	Tuesday	16.14	0.03212	0.4591		4.3	0.4746		10.7	0.0366	41.55	<4	<4
6/10/2020	Wednesday	16.04	0.03361	0.5202		4.719	0.4805		12.89	0.03466	43.57	5.05	<4
6/16/2020	Tuesday	17.14	0.03534	0.5066		4.81	0.4313		9.253	0.04926	40.3	<4	<4
6/17/2020	Wednesday	17.23	0.03052	0.5441		4.183	0.3914		9.679	0.02922	37.54	<4	<4
6/23/2020	Tuesday	13.85	0.02171	0.6353		4.315	0.3455		4.996	0.0263	39.96	<4	<4
6/24/2020	Wednesday	18.34	0.02435	0.7682		4.809	0.4133		7.171	0.05346	37.83	<4	<4
6/30/2020	Tuesday	16.07	0.02913	0.4612		4.493	0.4194		5.673	0.04159	42.67	<4	<4
7/1/2020	Wednesday	25.96	0.02835	0.5289		4.567	0.4945		5.627	0.04768	38.34	<4	<4
7/7/2020	Tuesday	14.12	0.03282	0.4999	<10	4.698	0.4868	*	5.748	0.03497	40.41	4.03	<4
7/8/2020	Wednesday	14.13	0.03236	0.4593		4.872	0.4589		4.766	0.02805	41.45	4.9	<4
7/14/2020	Tuesday	17.68	0.02535	0.4284		5.225	0.4604		8.698	0.03852	33.55	<4	<4
7/15/2020	Wednesday	13.63	0.02234	0.4591		5.184	0.425		6.786	0.02955	35.23	<4	<4
7/21/2020	Tuesday	12.12	0.03452	0.6393		6.766	0.4164		6.246	0.03806	41.37	<4	<4
7/22/2020	Wednesday	12.83	0.0296	0.4991		6.543	0.4647		6.735	0.05355	43.76	<4	<4
7/28/2020	Tuesday	18.81	0.0288	0.6284		6.091	0.5205		3.634	0.082	39.85	<4	<4
7/29/2020	Wednesday	12.47	0.0213	0.7657		5.756	0.4207		4.871	0.07024	37.08	<4	<4
8/4/2020	Tuesday	15.12	0.02374	0.653	<10	6.374	0.5866	0.00248	5.889	0.06541	40.15	<4	<4
8/5/2020	Wednesday	12	0.02106	0.6132		6.732	0.475		6.24	0.04558	37.29	<4	<4
8/11/2020	Tuesday	12.71	0.03636	0.4827		6.36	0.5273		3.579	0.04144	44.17	<4	<4
8/12/2020	Wednesday	11.89	0.02814	0.643		6.233	0.5405		7.017	0.04227	43.99	<4	<4
8/18/2020	Tuesday	14.47	0.02494	1.169		5.496	0.4034		4.253	0.04905	35.42	<4	<4
8/19/2020	Wednesday	12.14	0.02562	0.9782		5.45	0.4355		5.446	0.05808	39.35	<4	<4
8/25/2020	Tuesday	11.73	<0.020	0.6462		4.797	0.4315		14.8	0.0619	33.99	<4	<4
8/26/2020	Wednesday	11.23	<0.020	0.6206		4.839	0.4403		13.75	0.06327	36.99	<4	<4
9/1/2020	Tuesday	11.55	<0.020	1.403		4.924	0.4874		5.191	0.05762	44.45	<4	<4
9/2/2020	Wednesday	16.75	0.02503	1.249		5.081	0.4569		5.434	0.06154	38.29	<4	<4
9/8/2020	Tuesday	11.22	0.03112	0.5462		6.831	0.4726		6.121	0.05987	47.19	<4	<4
9/9/2020	Wednesday	11.53	0.02843	0.7614		6.06	0.4613		6.384	0.04933	44.5	<4	<4
9/15/2020	Tuesday	11.14	0.02569	0.7472	<10	6.452	0.5308	0.00234	8.263	0.07007	46.84	<4	<4
9/16/2020	Wednesday	11.74	0.02388	0.7742		6.095	0.5274		14.37	0.06803	42.55	<4	<4
9/22/2020	Tuesday	11.49	<0.020	0.5979		6.246	0.4722		17.43	0.06008	34.16	<4	<4
9/23/2020	Wednesday	11.15	<0.020	0.6069		6.046	0.4621		12.32	0.06532	34.33	<4	<4
9/24/2020	Thursday	11.25										<4	<4
9/29/2020	Tuesday	11.66	0.02323	0.7053		6.61	0.5917		7.534	0.1065	44	<4	<4
9/30/2020	Wednesday	22.14	<0.020	0.8429		6.667	0.4811		5.395	0.1794	33.1	<4	<4
10/6/2020	Tuesday	11.39	0.03117	0.6284	<10	6.474	0.5949	0.00161	7.211	0.1235	45.15	<4	<4
10/7/2020	Wednesday	13.1	0.02477	0.7729		7.466	0.6207		12.47	0.2121	43.24	<4	<4
10/13/2020	Tuesday	30.05	0.02304	1.932		6.333	0.5183		6.539	0.1445	35.44	<8	<4
10/14/2020	Wednesday	12.38	<0.020	5.23		5.202	0.4116		9.57	0.07382	32.81	<4	<4
10/20/2020	Tuesday	13.79	0.04021	1.216		6.471	0.5754		10.99	0.07468	47.11	<4	<4
10/21/2020	Wednesday	13.27	0.0415	1.139		6.101	0.543		8.657	0.07258	45.62	<4	<4
10/27/2020	Tuesday	12.88	0.04175	2.86		6.871	0.6307		6.869	0.07955	44.42	<4	<4
10/28/2020	Wednesday	15.78	0.03566	1.992		6.684	0.6332		8.878	0.09079	46.36	<4	<4

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

Bucklin Point Effluent Metals (Cd-Zn) and Cyanide, 2020

all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Cd	Cr	Hex Cr	Cu	Pb	Hg	Ni	Ag	Zn	CN	Available CN
11/3/2020	Tuesday	14	0.03164	2.671	<10	7.49	0.5488	0.00248	7.299	0.1208	44.5	<4	<4
11/4/2020	Wednesday	14.26	0.04145	2.467		7.295	0.6011		8.219	0.1017	48.38	<4	<4
11/10/2020	Tuesday	14.3	0.0402	1.056		7.46	0.5431		4.972	0.07994	44.41	<4	<4
11/11/2020	Wednesday	13.98	0.03733	1.022		6.649	0.5252		5.348	0.07029	43.31	<4	<4
11/17/2020	Tuesday	13.28	0.03282	0.7603		6.367	0.6477		5.38	0.09712	41.63	<4	<4
11/18/2020	Wednesday	12.67	0.03026	0.9721		7.329	0.5781		6.907	0.08668	45.17	<4	<4
11/24/2020	Tuesday	14.8	<0.020	0.8018		5.392	0.4431		12.47	0.1194	38.51	<4	<4
11/25/2020	Wednesday	14.86	0.0225	0.8787		4.843	0.4625		9.695	0.07973	41.34	<4	<4
12/1/2020	Tuesday	30.59	<0.020	0.4898		3.807	0.4233		4.716	0.1034	25.79	<4	<4
12/2/2020	Wednesday	22.37	0.02147	0.5763		4.155	0.4638		8.753	0.07105	32.17	<4	<4
12/8/2020	Tuesday	24.45	0.02846	0.5379	<10	5.801	0.5099	0.00133	6.65	0.1	37.51	<4	<4
12/9/2020	Wednesday	23.5	0.02976	0.5368		6.051	0.4672		6.722	0.1098	36.46	<4	<4
12/15/2020	Tuesday	19.7	0.04805	0.6737		8.914	0.5066		5.779	0.1098	40.88	<4	<4
12/16/2020	Wednesday	19.35	0.04644	0.6935		8.795	0.5344		5.762	0.1289	40.11	8.43	<4
12/22/2020	Tuesday	19.01	0.05207	0.6015		7.199	0.4896		4.809	0.1446	45.35	5.44	<4
12/23/2020	Wednesday	17.99	0.054	0.671		7.497	0.5934		7.789	0.1441	44.49	6.78	<4
12/29/2020	Tuesday	26.69	0.03781	0.4495		5.936	0.493		5.659	0.1404	36.72	<4	<4
12/30/2020	Wednesday	25.83	0.03828	0.4902		6.128	0.5273		5.932	0.1537	40	<4	<4

**Mercury not analyzed in March or July 2020 due to COVID-19 impacts and analyzer issues*

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

Bucklin Point Effluent Metals, Al-Sn, 2020
all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
1/1/2020	Wednesday	22.05	28.04		<1	0.5685	1.519	
1/7/2020	Tuesday	21.45	249.3	107.9	<1	0.6080	3.374	<5
1/8/2020	Wednesday	20.99	26.49		<1	0.5826	4.078	
1/14/2020	Tuesday	19.78	22.65		<1	0.5845	1.483	
1/15/2020	Wednesday	18.86	19.78		<1	0.5981	2.134	
1/21/2020	Tuesday	18.29	47.21		<1	0.6992	2.245	
1/22/2020	Wednesday	17.94	26.46		<1	0.5751	3.194	
1/28/2020	Tuesday	18.31	21.58		<1	0.5109	5.545	
1/29/2020	Wednesday	17.15	22.09		<1	<0.500	10.26	
2/4/2020	Tuesday	17.89	20.90	96.15	<1	<0.500	3.591	<5
2/5/2020	Wednesday	18.06	25.41		<1	<0.500	2.390	
2/11/2020	Tuesday	28.34	26.91		<1	<0.500	1.776	
2/12/2020	Wednesday	17.74	28.36		<1	<0.500	2.375	
2/18/2020	Tuesday	21.31	24.90		<1	<0.500	2.280	
2/19/2020	Wednesday	18.04	22.45		<1	<0.500	3.076	
2/25/2020	Tuesday	17.95	17		<1	<0.500	3.823	
2/26/2020	Wednesday	18.01	21.50		<1	<0.500	3.279	
3/3/2020	Tuesday	21.28	16.16	76.97	<1	<0.500	3.279	<5
3/4/2020	Wednesday	18.03	16.75		<1	<0.500	4.025	
3/10/2020	Tuesday	16.92	14.03		<1	0.5109	4.241	
3/11/2020	Wednesday	16.23	14.84		<1	0.5285	7.864	
3/17/2020	Tuesday	18.96	13.29		<1	<0.500	5.227	
3/18/2020	Wednesday	16.04	13.89		<1	0.5159	5.744	
3/24/2020	Tuesday	25.04	18.96		<1	0.5075	2.249	
3/25/2020	Wednesday	21.77	18.95		<1	0.5497	2.400	
3/31/2020	Tuesday	21.13	15.48		<1	0.5684	7.196	
4/1/2020	Wednesday	21.63	15.03		<1	0.5434	4.067	
4/7/2020	Tuesday	20.70	13.30	62.80	<1	0.5250	1.649	<5
4/8/2020	Wednesday	21.96	12.89		<1	0.5166	1.507	
4/14/2020	Tuesday	29.12	35.49		<1	0.5990	2.553	
4/15/2020	Wednesday	27.36	17.90		<1	0.5597	1.818	
4/21/2020	Tuesday	30.60	17.55		<1	0.5667	2.731	
4/22/2020	Wednesday	24.42	23.03		<1	0.5476	1.766	
4/28/2020	Tuesday	25.14	19.14		<1	0.5869	3.166	
4/29/2020	Wednesday	23.47	20.81		<1	0.6448	3.256	
5/5/2020	Tuesday	25.23	24.90	95.86	<1	0.5197	1.856	<5
5/6/2020	Wednesday	25.43	18.91		<1	0.5338	2.643	
5/12/2020	Tuesday	22.34	17.75		<1	0.5215	3.187	
5/13/2020	Wednesday	21.71	21.78		<1	0.5827	2.799	
5/19/2020	Tuesday	20.17	26.18		<1	0.5984	2.723	
5/20/2020	Wednesday	19.37	26.59		<1	0.5649	1.566	
5/26/2020	Tuesday	18.00	25.33		<1	0.5960	3.923	
5/27/2020	Wednesday	18.28	27.57		<1	0.6316	9.467	
6/2/2020	Tuesday	17.00	21.41	111.3	<1	0.6049	3.589	<5
6/3/2020	Wednesday	17.28	20.16		<1	0.6937	6.125	
6/9/2020	Tuesday	16.14	14.04		<1	0.6328	5.211	
6/10/2020	Wednesday	16.04	16.11		<1	0.6424	3.169	
6/16/2020	Tuesday	17.14	16.26		<1	0.6434	4.834	
6/17/2020	Wednesday	17.23	14.59		<1	0.6255	6.342	
6/23/2020	Tuesday	13.85	12.54		<1	<0.500	2.356	
6/24/2020	Wednesday	18.34	18.71		<1	0.6374	7.428	
6/30/2020	Tuesday	16.07	18.90		<1	0.6604	4.944	
7/1/2020	Wednesday	25.96	24.76		<1	0.5908	2.821	
7/7/2020	Tuesday	14.12	13.03	80.70	<1	0.5914	2.667	<5
7/8/2020	Wednesday	14.13	12.17		<1	0.5784	2.112	
7/14/2020	Tuesday	17.68	16.58		<1	0.5818	4.011	
7/15/2020	Wednesday	13.63	13.58		<1	0.6110	6.553	
7/21/2020	Tuesday	12.12	12.03		<1	0.6585	5.604	
7/22/2020	Wednesday	12.83	13.54		<1	0.6431	5.175	
7/28/2020	Tuesday	18.81	14.84		<1	0.6855	3.315	
7/29/2020	Wednesday	12.47	15.77		<1	0.7220	3.335	
8/4/2020	Tuesday	15.12	17.27	119.6	<1	0.6389	2.700	<5
8/5/2020	Wednesday	12.00	14.82		<1	0.6092	4.671	
8/11/2020	Tuesday	12.71	12.86		<1	0.5839	1.575	

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

Bucklin Point Effluent Metals, Al-Sn, 2020
all analyses in ppb

Date	Day of the Week	Effluent Flow (MGD)	Al	Fe	Se	As	Mo	Sn
8/12/2020	Wednesday	11.89	13.32		<1	0.5843	2.159	
8/18/2020	Tuesday	14.47	29.46		<1	0.5556	3.800	
8/19/2020	Wednesday	12.14	16.80		<1	0.5579	2.937	
8/25/2020	Tuesday	11.73	14.99		<1	0.5530	2.535	
8/26/2020	Wednesday	11.23	16.46		<1	0.5590	2.455	
9/1/2020	Tuesday	11.55	22.07		<1	0.5391	1.701	
9/2/2020	Wednesday	16.75	14.67		<1	0.6079	3.783	
9/8/2020	Tuesday	11.22	25.32		<1	0.5366	3.723	
9/9/2020	Wednesday	11.53	13.03		<1	0.5467	9.859	
9/15/2020	Tuesday	11.14	16.02	97.58	<1	0.5214	4.283	<5
9/16/2020	Wednesday	11.74	16.34		<1	0.5928	5.171	
9/22/2020	Tuesday	11.49	14.79		<1	<0.500	4.097	
9/23/2020	Wednesday	11.15	13.47		<1	<0.500	3.263	
9/29/2020	Tuesday	11.66	17.57		<1	<0.500	3.590	
9/30/2020	Wednesday	22.14	22.51		<1	0.5869	3.389	
10/6/2020	Tuesday	11.39	17	86.78	<1	<0.500	5.685	<25
10/7/2020	Wednesday	13.10	20.62		<1	<0.500	5.154	
10/13/2020	Tuesday	30.05	20.52		<1	<0.500	2.465	
10/14/2020	Wednesday	12.38	15.61		<1	0.5003	5.827	
10/20/2020	Tuesday	13.79	14.90		<1	0.5176	18.99	
10/21/2020	Wednesday	13.27	14.04		<1	0.5179	12.49	
10/27/2020	Tuesday	12.88	15.44		<1	0.5148	6.310	
10/28/2020	Wednesday	15.78	20.08		<1	0.5186	6.775	
11/3/2020	Tuesday	14.00	23.52	78.62	<1	0.5699	4.089	<5
11/4/2020	Wednesday	14.26	21.12		<1	0.5841	2.763	
11/10/2020	Tuesday	14.30	25.88		<1	<0.500	1.417	
11/11/2020	Wednesday	13.98	27.33		<1	<0.500	3.742	
11/17/2020	Tuesday	13.28	23.43		<1	0.5432	2.755	
11/18/2020	Wednesday	12.67	26.05		<1	0.5972	4.236	
11/24/2020	Tuesday	14.80	23.76		<1	0.5464	2.140	
11/25/2020	Wednesday	14.86	20.61		<1	0.5229	2.405	
12/1/2020	Tuesday	30.59	22.80		<1	0.6208	2.185	
12/2/2020	Wednesday	22.37	22.11		<1	0.5337	10.26	
12/8/2020	Tuesday	24.45	25.71	91.39	<1	0.6372	2.576	<5
12/9/2020	Wednesday	23.50	23.55		<1	0.5739	1.863	
12/15/2020	Tuesday	19.70	24.87		<1	0.5079	3.851	
12/16/2020	Wednesday	19.35	25.99		<1	0.5077	2.509	
12/22/2020	Tuesday	19.01	22.88		<1	0.6110	6.341	
12/23/2020	Wednesday	17.99	25.59		<1	0.5995	3.757	
12/29/2020	Tuesday	26.69	28.38		<1	0.6719	4.424	
12/30/2020	Wednesday	25.83	31.05		<1	0.6467	2.346	

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

Field's Point Inflow and Effluent Nutrients 2020

Field's Point Influent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	NitrateNitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/01/20	1.11	1.15	2.26	11.1	19.2		21.5
01/06/20	1.35	0.660	2.01	14.3	24.5		26.5
01/07/20	1.20	0.560	1.76	14.7	25.5	2.76	27.3
01/08/20	1.10	0.480	1.58	15.1	25.2		26.8
01/13/20	0.895	0.385	1.28	16.2	27.7		29
01/14/20	0.828	0.322	1.15	16	26.2	3	27.3
01/15/20	0.900	0.390	1.29	16.2	27		28.3
01/20/20	0.676	0.266	0.942	16.8	26.7		27.6
01/21/20	0.962	0.318	1.28	18.1	28.5	3.24	29.8
01/22/20	0.664	0.142	0.806	18.6	27		27.8
01/27/20	1.04	1.28	2.32	18	27.2		29.5
01/28/20	0.870	1.20	2.07	18.5	27.7	3.28	29.8
01/29/20	0.796	0.954	1.75	18.9	28.2		29.9
02/03/20	0.472	0.568	1.04	19.1	32.2		33.2
02/04/20	0.452	0.878	1.33	18.7	31.5	3.75	32.8
02/05/20	0.270	1.19	1.46	18.8	30.5		32
02/10/20	0.333	1.64	1.97	17.6	34		36
02/11/20	0.215	1.71	1.93	12.9	23.4	3.12	25.3
02/12/20	0.274	2.01	2.28	15.9	28.5		30.8
02/17/20	0.531	1.79	2.32	16.2	29.5		31.8
02/18/20	0.324	1.62	1.94	15.9	28.5	3.98	30.4
02/19/20	0.369	1.53	1.90	16.4	28.2		30.1
02/24/20	0.416	0.794	1.21	17.9	33.5		34.7
02/25/20	0.452	1.18	1.63	17.4	31.2	3.78	32.8
02/26/20	0.375	1.17	1.55	16.7	30.7		32.2
03/02/20	0.512	1.28	1.79	18.2	33.2		35
03/03/20	0.257	1.04	1.30	15.8	30.8	3.68	33.2
03/04/20	0.275	1.62	1.90	17.4	25.5		27.4
03/09/20	0.380	0.680	1.06	18	29.5		30.6
03/10/20	0.366	0.774	1.14	18.5	31.7	4.24	32.8
03/11/20	0.341	0.729	1.07	18.1	33.7		34.8
03/16/20	0.372	0.808	1.18	17.8	32		33.2
03/17/20	0.176	0.696	0.872	15.1	29	3.38	29.9
03/18/20	0.318	1.27	1.59	16.3	29		30.6
03/23/20	0.337	1.29	1.63	11.8	24.1		25.7
03/24/20	0.203	1.70	1.90	8.39	15.7	1.98	17.6
03/25/20	0.303	1.85	2.15	9.04	15.7		17.8
03/30/20	0.56	2.2		11	15		18
03/31/20	0.55	2		12	21	2.65	24
04/01/20	0.590	1.6		12	22		24
04/03/20							
04/06/20	0.754	1.37	2.12	13	23		25.1
04/07/20	0.595	1.73	2.33	11.4	22.4	2.90	24.7
04/08/20	0.634	1.02	1.65	12.9	22.7		24.3
04/13/20	0.514	1.38	1.89	5.37	10.3		12.2
04/14/20	0.509	2.10	2.61	6.89	12.2	1.48	14.8
04/15/20	0.369	1.89	2.26	7.44	13.3		15.6
04/20/20	0.935	1.51	2.45	10.5	18.4		20.8
04/21/20	0.877	1.57	2.45	8.99	19.7	2.19	22.1
04/22/20	1.04	1.49	2.53	9.27	16.5		19
04/27/20	0.491	<0.100	0.155	8.40	15.2		15.4
04/28/20	0.635	1.50	2.14	10.5	17.8	2.29	19.9
04/29/20	0.196	0.379	0.575	15	23.1		23.7
05/04/20	0.405	1.27	1.68	8.12	13.2		14.9
05/05/20	0.440	1.12	1.56	8.75	14.4	1.92	16
05/06/20	0.429	1.17	1.60	10.1	17.5		19.1
05/11/20	0.0960	0.217	0.313	12.1	21.2		21.5
05/12/20	0.0927	0.117	0.210	11.9	21.3	2.56	21.5
05/13/20	0.0847	0.213	0.298	12.2	20.1		20.9
05/18/20	0.0665	<0.100	0.130	14.2	22.8		22.4
05/19/20	0.0482	0.146	0.194	13.5	22.5	3.10	22.7
05/20/20	0.0519	0.125	0.177	13.7	23.5		23.7
05/25/20	0.0736	<0.100	0.147	14.3	23.2		23.3
05/26/20	0.0834	<0.100	0.159	14	24.4	3.12	24.6
05/27/20	0.115	<0.100	0.127	14.1	22.7		22.8
06/01/20	0.0704	0.109	0.179	16.1	24.5		24.7
06/02/20	0.0274	<0.100	<0.100	15.2	24.9	3.41	24.9
06/03/20	0.0198	<0.100	<0.100	15.1	25.5		25.5
06/08/20	0.0328	<0.100	0.114	15.2	25.2		25.3
06/09/20	0.0232	<0.100	0.113	15.5	25.8	3.48	25.9
06/10/20	0.0318	<0.100	0.118	15.4	24.1		24.2
06/15/20	0.0229	<0.100	<0.100	17.2	28.5		28.5
06/16/20	0.0270	<0.100	<0.100	16.6	26.7	3.41	26.7
06/17/20	0.0282	<0.100	<0.100	16.3	26.5		26.5
06/22/20	0.128	<0.100	0.131	17	29.7		29.8
06/23/20	0.0913	<0.100	0.169	16.8	28	3.60	28.2
06/24/20	0.245	<0.100	0.171	16	29.7		29.9
06/29/20	0.539	0.170	0.709	13.2	23.1		23.8
06/30/20	0.336	0.149	0.485	13	25.5	3.48	26
07/01/20	0.562	0.112	0.674	12.8	22.3		23
07/06/20	0.0547	<0.100	0.128	17.3	29.7		29.8
07/07/20	<0.010	<0.100	<0.100	17	27.8	3.56	27.8
07/08/20	0.0139	<0.100	<0.100	16.5	29.5		29.5
07/13/20	0.0200	<0.100	<0.100	16.2	27.2		27.2

Field's Point Effluent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	NitrateNitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/01/20	0.0679	<0.100	0.139	5.65	6.46		6.60
01/06/20	0.0254	<0.100	<0.100	6.82	8.10	1.61	8.10
01/07/20	0.0264	<0.100	<0.100	7.30	8.57		8.57
01/08/20	0.0393	<0.100	0.107	7.38	8.47		8.58
01/13/20	0.0481	<0.100	0.125	6.01	7.29	2.72	7.41
01/14/20	0.0729	0.118	0.191	5.97	7.03		7.22
01/15/20	0.0856	0.215	0.301	5.96	6.98		7.28
01/20/20	0.102	0.498	0.600	5.81	6.73	2.79	7.33
01/21/20	0.116	0.469	0.585	6.29	7.92		8.51
01/22/20	0.0979	0.439	0.537	6.99	8.14		8.68
01/27/20	0.133	0.947	1.08	4.82	6.21	2.18	7.29
01/28/20	0.141	1.17	1.31	5.20	6.08		7.39
01/29/20	0.126	1.26	1.39	5.69	7.04		8.43
02/03/20	0.216	1.22	1.44	3.85	5.05	2.57	6.49
02/04/20	0.242	1.34	1.58	4.09	5.34		6.92
02/05/20	0.268	2.53	2.80	3.88	5.21		8.01
02/10/20	0.271	3.06	3.33	2.73	4.08	2.19	7.41
02/11/20	0.260	3.32	3.58	2.19	3.30		6.88
02/12/20	0.309	2.76	3.07	3.92	4.95		8.02
02/17/20	0.177	1.70	1.88	2.76	3.99	2.79	5.87
02/18/20	0.105	0.925	1.03	2.91	3.72		4.75
02/19/20	0.104	1.03	1.13	3.26	4.14		5.27
02/24/20	0.0795	0.561	0.641	2.99	4.10	2.59	4.74
02/25/20	0.0935	0.611	0.705	2.89	3.93		4.63
02/26/20	0.117	1.65	1.77	3.28	4.22		5.99
03/02/20	0.180	0.910	1.09	2.93	4.16	2.02	5.25
03/03/20	0.206	0.934	1.14	3.03	3.86		5
03/04/20	0.200	1.34	1.54	1.54	2.39		3.93
03/09/20	0.130	0.667	0.797	2.44	3.45	2.55	4.25
03/10/20	0.172	1.25	1.42	1.68	2.53		3.95
03/11/20	0.0932	1.07	1.16	1.54	2.33		3.49
03/16/20	0.112	1.29	1.40	1.61	2.56	2.47	3.96
03/17/20	0.0770	1.35	1.43	0.931	2.13		3.56
03/18/20	0.117	2.39	2.51	1.64	2.66		5.17
03/23/20	0.103	3.75	3.85	2.33	3.20	1.69	7.05
03/24/20	0.0769	5.03	5.11	1.39	2.05		7.16
03/25/20	0.127	4.52	4.65	1.37	2.05		6.70
03/30/20				1.4	2.9	1.27	
03/31/20	0.174	3.1		1.5	2.7		5.8
04/01/20	0.237	3.14	3.38	2.20	3.24		6.62
04/03/20	<0.010	5.42	5.42	0.340	1.06	0.815	6.48
04/06/20	0.0739	4.24	4.31	0.949	1.86	1.96	6.17
04/07/20	0.0579	5.25	5.31	0.720	1.56		6.87
04/08/20	0.0444	4.99	5.03	0.594	1.66		6.69
04/13/20	<0.010	5.03	5.03	0.208	0.798	0.940	5.83
04/14/20	0.0143	6.06	6.07	0.404	0.963		7.03
04/15/20	<0.010	5.43	5.43	0.288	0.917		6.35
04/20/20	0.0103	5.53	5.54	0.349	1.25	1.05	6.79
04/21/20	<0.010	6.33	6.33	0.281	0.806		7.14
04/22/20	0.0147	5.74	5.75	0.378	1.20		6.95
04/27/20	<0.010	4.79	4.79	0.257	0.816	0.973	5.61
04/28/20	<0.010	4.35	4.35	0.105	1.12		5.47
04/29/20	<0.010	4.12	4.12	0.148	1.06		5.18
05/04/20	0.0103	3.48	3.49	0.189	0.999	0.578	4.49
05/05/20	0.0273	1.69	1.72	0.328	1.17		2.89
05/06/20	<0.010	1.41	1.41	0.353	1.30		2.71
05/11/20	<0.010	0.605	0.605	0.160	1.18	0.858	1.78
05/12/20	0.0197	0.557	0.577	0.479	1.42		2
05/13/20	0.0119	0.420	0.432	0.307	1.25		1.68
05/18/20	0.0135	0.323	0.337	0.835	1.79	1.37	2.13
05/19/20	0.0165	0.291	0.308	0.770	1.92		2.23
05/20/20	0.0135	0.338	0.352	0.851	1.99		2.34
05/25/20	0.0273	0.326	0.353	1.18	2.21	2.06	2.56
05/26/20	<0.010	0.377	0.377	0.348	1.31		1.69
05/27/20	<0.010	0.428	0.428	0.328	1.26		1.69
06/01/20	0.0143	0.721	0.735	0.586	1.46	2.52	2.19

Field's Point Influent and Effluent Nutrients 2020

Field's Point Influent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate/Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
07/14/20	0.0168	<0.100	<0.100	12	25.7	3.71	25.7
07/15/20	0.0239	<0.100	<0.100	14.4	24.7		24.7
07/20/20	0.0181	<0.100	<0.100	17.2	27.7		27.7
07/21/20	0.0149	<0.100	<0.100	17.4	28.4	3.78	28.4
07/22/20	0.0124	<0.100	<0.100	16.9	29.5		29.5
07/27/20	0.0769	<0.100	<0.100	16.7	28.2		28.2
07/28/20	0.138	<0.100	0.152	11.8	24.6	3.38	24.8
07/29/20	0.298	<0.100	0.273	11.6	19.5		19.8
08/03/20	0.0209	<0.100	<0.100	16.9	30		30
08/04/20	0.0176	<0.100	0.102	15	31.5	3.87	31.6
08/05/20	0.0177	<0.100	<0.100	14.5	24.4		24.4
08/10/20	0.0326	<0.100	<0.100	18.8	33.7		33.7
08/11/20	0.0184	<0.100	<0.100	17.7	32.5	4.88	32.5
08/12/20	0.0202	<0.100	<0.100	17.9	29.5		29.5
08/17/20	0.0200	<0.100	<0.100	17.8	29.7		29.7
08/18/20	0.0233	<0.100	<0.100	15	24.8	3.41	24.8
08/19/20	0.0259	<0.100	<0.100	17.8	27.7		27.7
08/24/20	0.105	<0.100	0.124	19.1	25.2		25.3
08/25/20	0.0726	<0.100	<0.100	18.6	29.2	4.41	29.2
08/26/20	0.0219	0.150	0.172	19.8	33.5		33.7
08/31/20	0.0512	0.135	0.186	18.7	30.2		30.4
09/01/20	0.212	<0.100	0.257	19.1	31.2	4.43	31.5
09/02/20	0.147	<0.100	0.135	15.2	27		27.1
09/07/20	0.194	<0.100	0.214	20.8	32.2		32.4
09/08/20	0.251	<0.100	0.235	19.9	34	4.58	34.2
09/09/20	0.171	<0.100	0.259	20.2	38.7		39
09/14/20	0.0182	0.175	0.193	17.8	33.5		33.7
09/15/20	0.0177	<0.100	<0.100	21.5	34	4.16	34
09/16/20	0.0216	<0.100	<0.100	21.4	36.7		36.7
09/21/20	0.0259	<0.100	<0.100	21.9	41.7		41.7
09/22/20	0.0153	<0.100	<0.100	21.6	35.7	4.14	35.7
09/23/20	0.0188	<0.100	<0.100	22	35.5		35.5
09/28/20	0.0176	<0.100	<0.100	21.1	38.7		38.7
09/29/20	0.0214	<0.100	<0.100	19.5	33.4	4.39	33.4
09/30/20	0.0177	<0.100	<0.100	12.9	21.9		21.9
10/05/20	0.0822	<0.100	0.114	19.3	35.5	4.51	35.6
10/06/20	0.0185	<0.100	<0.100	21.6	37.7		37.7
10/07/20	0.0177	<0.100	<0.100	20	36.2		36.2
10/12/20	0.0181	<0.100	<0.100	21.2	37.7	4.79	37.7
10/13/20	0.0322	0.127	0.159	9.14	17.2		17.4
10/14/20	0.0170	<0.100	<0.100	18.6	28.5		28.5
10/19/20	0.0111	0.110	0.121	12	20.1	2.52	20.2
10/20/20	0.0115	<0.100	<0.100	15.3	34		34
10/21/20	0.0171	<0.100	<0.100	19	30		30
10/26/20	0.0162	<0.100	<0.100	21.5	34.4	4.73	34.4
10/27/20	0.0169	<0.100	<0.100	20.8	37		37
10/28/20	0.0249	<0.100	0.115	17.9	31		31.1
11/02/20	0.0656	0.206	0.272	12.4	19.6	2.96	19.9
11/03/20	0.0173	0.134	0.151	16.2	24.6		24.8
11/04/20	0.0376	<0.100	0.129	17.1	26.5		26.6
11/09/20	0.0165	<0.100	<0.100	19.9	32	4.23	32
11/10/20	0.0197	<0.100	<0.100	19.8	33.2		33.2
11/11/20	0.0383	<0.100	0.107	18	32		32.1
11/16/20	0.267	0.416	0.683	15.4	25.2	3.16	25.9
11/17/20	0.170	0.169	0.339	19.1	32.2		32.5
11/18/20	0.0156	0.132	0.148	19.7	32.5		32.6
11/23/20	0.118	0.789	0.907	6.07	11.5	1.71	12.4
11/24/20	0.182	0.664	0.846	9.34	15.5		16.3
11/25/20	0.192	0.623	0.815	10.8	18.3		19.1
11/30/20	0.153	1.06	1.21	6.61	13.4	2.05	14.6
12/01/20	0.199	3.10	3.30	6.50	12.7		16
12/02/20	0.309	2.28	2.59	7.17	12.7		15.3
12/07/20	0.274	2.48	2.75	6.12	14.1	1.56	16.8
12/08/20	0.321	1.87	2.19	6.92	15.1		17.3
12/09/20	0.387	1.69	2.08	8.30	14.5		16.6
12/14/20	0.702	1.90	2.60	10.6	21.4	2.86	24
12/15/20	0.788	1.67	2.46	11.7	24.2		26.7
12/16/20	0.436	1.50	1.94	11.3	18.7		20.6
12/21/20	0.411	1.37	1.78	12.4	26	3.23	27.8
12/22/20	0.529	1.59	2.12	12	24.8		26.9
12/23/20	0.560	1.59	2.15	13	23.9		26
12/28/20	0.216	3.40	3.62	6.29	11.7	1.63	15.3
12/29/20	0.223	3.06	3.28	6.34	11.2		14.5
12/30/20	0.236	2.73	2.97	6.93	13.9		16.9

Field's Point Effluent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate/Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
07/14/20	<0.010	0.123	0.123	0.666	1.82		1.94
07/15/20	<0.010	0.114	0.114	0.540	1.54		1.65
07/20/20	<0.010	0.248	0.248	0.419	1.29	2.25	1.54
07/21/20	<0.010	0.194	0.194	0.547	1.50		1.69
07/22/20	0.0153	0.126	0.141	0.884	1.83		1.97
07/27/20	<0.010	0.152	0.152	0.203	1.22	2.78	1.37
07/28/20	<0.010	<0.100	<0.100	1.42	2.60		2.60
07/29/20	<0.010	<0.100	<0.100	0.343	1.24		1.24
08/03/20	0.0182	<0.100	<0.100	0.772	1.95	2.25	1.95
08/04/20	0.0109	<0.100	<0.100	1.97	2.34		2.34
08/05/20	0.0201	<0.100	0.101	1.10	1.89		1.99
08/10/20	0.0113	<0.100	<0.100	1.09	2.07	3.40	2.07
08/11/20	0.0121	<0.100	<0.100	1.18	2.19		2.19
08/12/20	0.0134	<0.100	<0.100	1.25	2.22		2.22
08/17/20	0.0108	0.134	0.145	0.720	1.83	2.99	1.97
08/18/20	<0.010	<0.100	<0.100	<0.100	1.04		1.04
08/19/20	<0.010	<0.100	<0.100	0.388	1.58		1.58
08/24/20	0.0295	0.124	0.154	1.32	2.42	3.09	2.57
08/25/20	0.0167	<0.100	0.114	0.998	2.09		2.20
08/26/20	<0.010	<0.100	<0.100	1.64	2.78		2.78
08/31/20	<0.010	<0.100	<0.100	1.64	2.72	2.36	2.72
09/01/20	0.0119	<0.100	<0.100	1.68	2.80		2.80
09/02/20	<0.010	<0.100	<0.100	1.65	2.84		2.84
09/07/20	0.0100	<0.100	<0.100	0.618	1.83	3.38	1.83
09/08/20	<0.010	<0.100	<0.100	0.877	2.30		2.30
09/09/20	0.0114	<0.100	<0.100	1.35	2.97		2.97
09/14/20	0.0247	<0.100	<0.100	1.88	3.19	3.32	3.19
09/15/20	0.0257	<0.100	<0.100	1.95	3.20		3.20
09/16/20	0.0218	<0.100	<0.100	2.09	3.71		3.71
09/21/20	0.0311	<0.100	<0.100	1.86	3.36	3.76	3.36
09/22/20	0.0363	<0.100	<0.100	2.13	3.47		3.47
09/23/20	0.0305	<0.100	<0.100	1.80	3.17		3.17
09/28/20	0.0329	<0.100	<0.100	1.38	2.65	3.63	2.65
09/29/20	0.0377	<0.100	0.117	1.51	2.83		2.95
09/30/20	<0.010	<0.100	<0.100	0.217	1.27		1.27
10/05/20	<0.010	0.219	0.219	<0.100	1.14	3.40	1.36
10/06/20	<0.010	0.227	0.227	<0.100	1.18		1.41
10/07/20	0.0255	0.143	0.169	1.28	2.57		2.74
10/12/20	0.0108	0.941	0.952	0.411	1.70	3.77	2.65
10/13/20	<0.010	0.911	0.911	0.145	1.04		1.95
10/14/20	<0.010	0.767	0.767	<0.100	1.12		1.89
10/19/20	0.0528	0.904	0.957	1.20	2.11	1.72	3.07
10/20/20	0.0308	0.331	0.362	0.716	1.61		1.97
10/21/20	<0.010	0.283	0.283	0.582	1.58		1.86
10/26/20	<0.010	0.117	0.117	0.916	2.07	2.62	2.19
10/27/20	<0.010	0.123	0.123	1.05	2.25		2.37
10/28/20	0.0128	<0.100	<0.100	1.54	2.73		2.73
11/02/20	0.0376	<0.100	0.137	2.40	3.24	1.56	3.38
11/03/20	0.0113	<0.100	<0.100	3.04	3.86		3.86
11/04/20	<0.010	<0.100	<0.100	2.84	3.86		3.86
11/09/20	0.0295	0.118	0.148	1.92	2.78	3.10	2.93
11/10/20	0.0203	<0.100	0.111	1.39	2.31		2.42
11/11/20	0.0266	<0.100	0.116	2.37	3.20		3.32
11/16/20	0.119	0.504	0.623	1.90	2.86	2.59	3.48
11/17/20	0.0683	0.237	0.305	2.30	3.14		3.44
11/18/20	0.0517	0.187	0.239	2.34	3.27		3.51
11/23/20	0.0644	1.16	1.22	2.03	3.15	2.74	4.37
11/24/20	0.121	0.220	0.341	3.36	4.41		4.75
11/25/20	0.0715	0.114	0.186	3.87	4.76		4.95
11/30/20	0.0637	1.55	1.61	2.46	4.33	1.24	5.94
12/01/20	0.270	2.17	2.44	3.16	4.44		6.88
12/02/20	0.245	1.46	1.71	3.37	4.63		6.34
12/07/20	0.298	1.95	2.25	3.34	5.31	1.14	7.56
12/08/20	0.229	1.55	1.78	3.99	5.59		7.37
12/09/20	0.182	0.712	0.894	3.40	4.65		5.54
12/14/20	0.120	0.805	0.925	3.86	5.44	2.01	6.36
12/15/20	0.111	0.873	0.984	3.86	5.57		6.55
12/16/20	0.126	1.01	1.14	4.53	6.32		7.46
12/21/20	0.121	0.696	0.817	4.46	6.15	2.52	

Bucklin Point Influent and Effluent Nutrients 2020

Bucklin Point Influent Nutrients							
Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate + Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/01/20	0.124	0.611	0.735	14.1	23.1		23.8
01/06/20	0.118	0.376	0.494	18.7	29.7		30.2
01/07/20	0.0960	0.362	0.458	18	28.7	3.27	29.2
01/08/20	0.0824	0.316	0.398	19.2	30.2		30.6
01/13/20	0.149	0.217	0.366	22.6	33.7		34.1
01/14/20	0.140	0.151	0.291	20.5	32.8	3.55	33.0
01/15/20	0.182	<0.100	0.229	19.7	31		31.2
01/20/20	0.141	0.302	0.443	21.7	31.5		31.9
01/21/20	0.134	0.204	0.338	21.8	32	3.58	32.3
01/22/20	0.0974	0.162	0.259	22.6	33		33.3
01/27/20	0.107	0.443	0.550	22.1	31.5		32
01/28/20	0.103	0.302	0.405	22.5	31	3.54	31.4
01/29/20	0.116	0.270	0.386	22.1	31.5		31.9
02/03/20	0.140	<0.100	0.202	22.9	35.5		35.7
02/04/20	0.123	<0.100	0.176	24.9	36.5	4.26	36.7
02/05/20	0.0930	<0.100	0.177	24	35.2		35.4
02/10/20	0.152	<0.100	0.237	22.7	35.5		35.7
02/11/20	0.0632	0.317	0.380	18.1	29.2	3.62	29.7
02/12/20	0.0865	0.336	0.423	19.5	30		30.4
02/17/20	0.110	0.250	0.360	20.7	31		31.4
02/18/20	0.0826	0.290	0.373	20.1	32.7	3.55	33.1
02/19/20	0.0843	0.299	0.383	20.5	36		36.4
02/24/20	0.107	<0.100	0.182	23.1	41.7		41.9
02/25/20	0.0936	<0.100	0.139	22.9	35.5	3.76	35.6
02/26/20	0.0396	<0.100	0.103	23	36.7		36.8
03/02/20	0.201	<0.100	0.216	23.2	34.2		34.4
03/03/20	0.0601	<0.100	<0.100	23.4	35.8	3.63	35.8
03/04/20	0.185	<0.100	0.163	21	32		32.2
03/09/20	0.0670	0.156	0.223	22.9	33.2		33.4
03/10/20	0.0222	<0.100	<0.100	29.1	41.5	4.29	41.5
03/11/20	0.0377	<0.100	<0.100	25.3	41		41
03/16/20	0.0955	<0.100	0.120	23.6	37.2		37.3
03/17/20	0.0919	<0.100	0.135	21.2	38.2	3.84	38.3
03/18/20	0.0385	<0.100	<0.100	22.7	38.5		38.5
03/23/20	0.0793	<0.100	0.136	23.6	39		39.1
03/24/20	0.0666	0.562	0.629	11.9	21.5	3.26	22.1
03/25/20	0.116	0.608	0.724	18.1	28.2		28.9
03/30/20	<0.250	0.49		12	16		16
03/31/20				15	24	2.84	
04/01/20	0.210	0.29		14	25		26
04/02/20							
04/06/20	0.204	0.290	0.494	16.7	25.2		25.7
04/07/20	0.251	0.138	0.389	16.5	28	3.02	28.4
04/08/20	0.212	0.120	0.332	17.6	26.5		26.8
04/13/20	0.145	0.241	0.386	14.1	21.2		21.6
04/14/20	0.191	0.949	1.14	8.97	13.3	1.42	14.4
04/15/20	0.158	1.21	1.37	13.2	20.1		21.5
04/20/20	0.208	0.497	0.705	14.8	22.8		23.5
04/21/20	0.156	0.582	0.738	14.4	22.5	2.53	23.2
04/22/20	0.119	0.714	0.833	12	18.9		19.7
04/27/20	0.0963	0.669	0.765	12.8	19.9		20.7
04/28/20	0.138	0.694	0.832	14.1	22.3	2.42	23.1
04/29/20	0.629	0.441	1.07	10.7	18.5		19.6
05/04/20	0.180	0.779	0.959	13.3	18.9		19.9
05/05/20	0.179	0.648	0.827	13.5	19.4	2.24	20.2
05/06/20	0.142	0.515	0.657	14	22.8		23.5
05/11/20	0.247	<0.100	0.306	15.6	24.2		24.5
05/12/20	0.231	<0.100	0.262	14	23.2	2.70	23.9
05/13/20	0.178	<0.100	0.190	15.5	23.7		23.5
05/18/20	0.110	0.296	0.406	17.2	25.5		25.9
05/19/20	0.0987	0.267	0.366	18.8	27.2	3.11	27.6
05/20/20	0.0725	<0.100	0.112	19.1	29.7		29.8
05/25/20	0.0463	<0.100	<0.100	19.3	29.2		29.2
05/26/20	0.0242	<0.100	<0.100	19.9	30.8	3.35	30.8
05/27/20	0.0350	<0.100	<0.100	19	28.5		28.5
06/01/20	0.0281	<0.100	<0.100	20.7	30		30
06/02/20	0.0236	<0.100	<0.100	21.9	34.5	3.81	34.5
06/03/20	0.0231	<0.100	<0.100	21	34.7		34.7
06/04/20							
06/05/20							
06/08/20	0.0236	<0.100	<0.100	22	33.7		33.7
06/09/20	0.0211	<0.100	<0.100	21.2	34	4.05	34
06/10/20	0.0273	<0.100	<0.100	22.8	34.2		34.2
06/15/20	0.0235	<0.100	<0.100	22.5	34.7		34.7
06/16/20	0.0331	<0.100	<0.100	23	35.7	4.11	35.7
06/17/20	0.0240	<0.100	<0.100	23.2	36.7		36.7
06/22/20	0.0275	<0.100	<0.100	25.3	38.5		38.5
06/23/20	0.0209	<0.100	<0.100	24.6	37.8	4.17	37.8
06/24/20	0.0264	<0.100	<0.100	24	40		40
06/29/20	0.504	<0.100	0.593	16.5	26.7		27.3
06/30/20	0.229	<0.100	0.209	19.3	32.2	3.67	32.4
07/01/20	0.464	<0.100	0.370	17.1	29.2		29.6
07/06/20	0.173	<0.100	0.141	20.1	31		31.1
07/07/20	0.157	<0.100	0.117	19.7	31.6	4.07	31.7
07/08/20	0.0244	<0.100	<0.100	20.4	36.7		36.7
07/13/20	0.0918	<0.100	<0.100	23	36		36
07/14/20	0.0879	<0.100	<0.100	21.9	37.5	4.64	37.5
07/15/20	0.431	<0.100	0.274	18.1	31		31.3
07/20/20	0.0884	<0.100	<0.100	23	34.2		34.2
07/21/20	0.163	<0.100	0.115	23.2	35.6	4.35	35.7
07/22/20	0.103	<0.100	<0.100	27.6	41		41
07/27/20	0.0287	<0.100	<0.100	25.6	39.2		39.2
07/28/20	0.0237	<0.100	<0.100	25	40.2	4.53	40.2
07/29/20	0.0275	<0.100	<0.100	20.8	34		34
08/03/20	0.0319	<0.100	<0.100	28.5	42.2		42.2
08/04/20	0.0258	<0.100	<0.100	28	42	4.80	42
08/05/20	0.185	<0.100	<0.100	21.8	34		34

Bucklin Point Effluent Nutrients							
Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate + Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
01/01/20	0.0244	6.08	6.10	<0.100	1.33		7.43
01/06/20	0.0198	3.59	3.61	<0.100	1.36		4.97
01/07/20	0.0255	4.42	4.45	0.115	1.53	2.16	5.98
01/08/20	0.0360	4.59	4.63	0.240	1.57		6.20
01/13/20	0.0218	5.37	5.39	0.134	1.91		7.30
01/14/20	0.0214	5.70	5.72	<0.100	1.76	2.90	7.48
01/15/20	0.0243	5.43	5.45	<0.100	1.45		6.90
01/20/20	0.0759	5.59	5.67	1.66	4		9.67
01/21/20	0.0915	8.45	8.54	3.65	7.65	2.79	16.2
01/22/20	0.0777	7.60	7.68	0.764	2.77		10.4
01/27/20	0.0749	7.11	7.18	0.286	1.86		9.04
01/28/20	0.0823	5.45	5.53	0.403	1.91	2.87	7.44
01/29/20	0.0816	6.61	6.69	0.260	1.77		8.46
02/03/20	0.0619	7.22	7.28	0.195	1.43		8.71
02/04/20	0.0439	6.30	6.34	<0.100	1.55	3.54	7.89
02/05/20	0.0545	4.78	4.83	1.21	2.58		7.41
02/10/20	0.0126	7.88	7.89	<0.100	1.63		9.52
02/11/20	0.0132	7.53	7.54	<0.100	1.39	2.20	8.93
02/12/20	0.0181	9.07	9.09	<0.100	1.19		10.3
02/17/20	0.0224	8.81	8.83	0.142	0.602		9.43
02/18/20	0.0454	8.22	8.27	0.333	1.21	2.74	9.48
02/19/20	0.0586	6.73	6.79	0.431	1.19		7.98
02/24/20	0.0730	4.38	4.45	3.46	4.67		9.12
02/25/20	0.0626	7.68	7.74	0.802	1.62	2.54	9.36
02/26/20	0.0435	7.81	7.85	0.397	1.54		9.39
03/02/20	0.0242	3	3.02	0.160	1.66		4.68
03/03/20	0.0383	2.96	3	1.39	2.66	1.44	5.66
03/04/20	0.0760	3.85	3.93	1.13	2.30		6.23
03/09/20	0.0698	4.35	4.42	1.38	2.53		6.95
03/10/20	0.0793	4.82	4.90	1.10	2.01	2.40	6.91
03/11/20	0.0694	5	5.07	0.657	1.63		6.70
03/16/20	0.0739	4.42	4.49	0.916	1.69		6.18
03/17/20	0.0887	5.06	5.15	1.02	1.86	2.43	7.01
03/18/20	0.0838	4.80	4.88	0.643	1.90		6.78
03/23/20	0.0514	3.99	4.04	0.642	1.95		5.99
03/24/20	0.0488	4.79	4.84	0.582	1.53	2.12	6.37
03/25/20	0.0772	4.77	4.85	0.606	1.52		6.37
03/30/20	<0.250	2.2	2.2	1.5	2.3		4.5
03/31/20	<0.250	3.2	3.2	1.3	2.2	1.79	5.4
04/01/20	0.122	3.9	3.9	1.4	2.7		6.6
04/02/20	0.0958	2.76	2.86	1.42	2.90	2.35	5.76
04/06/20	0.0660	2.62	2.69	0.884	2.06		4.75
04/07/20	0.0603	2.43	2.49	0.830	1.79	2.07	4.28
04/08/20	0.0638	3.89	3.95	0.555	1.57		5.52
04/13/20	0.0428	2.24	2.28	0.115	1.22		3.50
04/14/20	0.0857	3.03	3.12	1.71	2.96	1.83	6.08
04/15/20	0.0839	1.85	1.93	2.29	2.99		4.92
04/20/20	0.124	2.73	2.85	1.16	2.13		4.98
04/21/20	0.0707	1.74	1.81	0.744	1.74	1.44	3.55
04/22/20	0.106	3.53	3.64	0.952	1.91		5.55
04/27/20	0.0740	3.26	3.33	1			

Bucklin Point Influent and Effluent Nutrients 2020

Bucklin Point Influent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate + Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
08/10/20	0.0324	<0.100	0.111	28.8	39.2		39.3
08/11/20	0.0790	<0.100	<0.100	29.7	43	4.59	43
08/12/20	0.0889	<0.100	<0.100	26.7	42		42
08/13/20							
08/14/20							
08/15/20							
08/17/20	0.841	<0.100	0.764	23	38.7		39.5
08/18/20	1.24	6.44	7.68	31.4	44.6	6.32	52.3
08/19/20	0.0308	<0.100	<0.100	28.1	39.7		39.7
08/24/20	0.0259	<0.100	<0.100	31.4	40		40
08/25/20	0.0206	<0.100	<0.100	27.7	36.7	4.26	36.7
08/26/20	0.0273	<0.100	<0.100	29	46.7		46.7
08/31/20	0.0373	<0.100	<0.100	29.1	43.7		43.7
09/01/20	0.0540	<0.100	<0.100	27.5	41.2	4.65	41.2
09/02/20	0.137	<0.100	<0.100	26.5	43.7		43.7
09/07/20	0.0322	<0.100	<0.100	29.7	44.5		44.5
09/08/20	0.0340	<0.100	<0.100	28.2	43.5	4.73	43.5
09/09/20	0.0309	<0.100	<0.100	26.2	52.5		52.5
09/13/20							
09/14/20	0.124	<0.100	0.129	34.4	56.2		56.3
09/15/20	0.485	<0.100	0.385	31	46.2	4.81	46.6
09/16/20	0.227	<0.100	0.114	32.6	49.5		49.6
09/17/20							
09/18/20							
09/19/20							
09/20/20							
09/21/20	0.585	<0.100	0.484	32.8	52.5		53
09/22/20	0.285	<0.100	0.180	34	55.7	5.42	55.9
09/23/20	0.0305	<0.100	<0.100	35.4	53		53
09/24/20							
09/25/20							
09/26/20							
09/28/20	0.0339	<0.100	<0.100	35.6	52.7		52.7
09/29/20	0.0292	<0.100	<0.100	30.2	45.8	5.33	45.8
09/30/20	0.0273	<0.100	<0.100	22.3	37.2		37.2
10/05/20	0.0316	<0.100	<0.100	32.4	50		50
10/06/20	0.0243	<0.100	<0.100	33.8	51	5.16	51
10/07/20	0.0301	<0.100	<0.100	34.4	50.2		50.2
10/12/20	0.0656	<0.100	<0.100	38	53		53
10/13/20	0.525	<0.100	0.547	24.3	38.2	3.96	38.7
10/14/20	0.728	<0.100	0.697	21.8	30.7		31.4
10/19/20	0.740	<0.100	0.706	29	43.5		44.2
10/20/20	0.0267	<0.100	<0.100	30.4	45	4.49	45
10/21/20	0.0236	<0.100	<0.100	27.6	40.2		40.2
10/26/20	0.0252	<0.100	<0.100	30.4	46		46
10/27/20	0.0314	<0.100	<0.100	29.6	45	5.13	45
10/28/20	0.0342	<0.100	<0.100	27.1	46.7		46.7
11/02/20	0.0573	0.229	0.286	17	25.2		25.5
11/03/20	0.0198	<0.100	<0.100	25.8	36.7	4.02	36.7
11/04/20	0.0207	<0.100	<0.100	25.6	38		38
11/09/20	0.0227	<0.100	<0.100	27.8	41.2		41.2
11/10/20	0.0214	<0.100	<0.100	26.1	44.2	4.96	44.2
11/11/20	0.0227	<0.100	<0.100	25.5	41.2		41.2
11/16/20	0.213	0.204	0.417	21	35		35.4
11/17/20	0.0719	<0.100	0.141	25.6	40.7	4.75	40.8
11/18/20	0.0228	<0.100	<0.100	27.7	42.2		42.2
11/23/20	0.0294	<0.100	0.114	16.7	29		29.1
11/24/20	0.0689	0.321	0.390	21.1	31.7	3.70	32.1
11/25/20	0.0505	<0.100	<0.100	24.1	37		37
11/30/20	0.0272	<0.100	<0.100	24.1	38.5		38.5
12/01/20	0.0680	0.871	0.939	6.54	10.8	1.47	11.7
12/02/20	0.183	1.27	1.45	14.3	21.6		23
12/07/20	0.248	1.43	1.68	12.1	22.3		24
12/08/20	0.247	1.07	1.32	13.4	23.7	2.50	25
12/09/20	0.237	0.731	0.968	14.3	23		24
12/14/20	0.257	0.385	0.642	15.9	27		27.6
12/15/20	0.263	0.292	0.555	15.1	28.6	3.56	29.2
12/16/20	0.265	0.147	0.412	15.7	27.5		27.9
12/21/20	0.366	0.182	0.548	18.2	34		34.5
12/22/20	0.116	0.182	0.298	18.7	33.7	3.42	34
12/23/20	0.147	<0.100	0.202	18	28.7		28.9
12/28/20	0.216	1.92	2.14	9.32	15.1		17.2
12/29/20	0.228	1.59	1.82	10	14.9	1.94	16.7
12/30/20	0.204	1.42	1.62	10.9	20.7		22.3

Bucklin Point Effluent Nutrients

Date	Nitrite N-NO ₂ ppm	Nitrate N-NO ₃ ppm	Nitrate + Nitrite N-NO ₃ NO ₂ ppm	Ammonia N-NH ₃ ppm	TKN N-TKN ppm	Total Phosphorus ppm	Total Nitrogen ppm
08/10/20	0.0470	1.81	1.86	0.118	1.36		3.22
08/11/20	0.0418	1.69	1.73	<0.100	1.33	2.61	3.06
08/12/20	0.0386	1.49	1.53	<0.100	1.38		2.91
08/13/20			1.26	<0.100	1.37		2.63
08/14/20			1.27	0.156	1.49		2.76
08/15/20			1.67	0.103	1.38		3.05
08/17/20	0.0444	1.32	1.36	0.132	1.33		2.69
08/18/20	0.0436	1.30	1.34	<0.100	1.29	1.97	2.63
08/19/20	0.0467	1.35	1.40	<0.100	1.19		2.59
08/24/20	0.0443	0.570	0.614	0.984	2.10		2.71
08/25/20	0.0353	0.528	0.563	0.151	1.26	0.994	1.82
08/26/20	0.0404	0.729	0.769	0.143	1.23		2
08/31/20	0.0441	0.710	0.754	<0.100	1.12		1.87
09/01/20	0.0510	0.872	0.923	0.136	1.31	1.29	2.23
09/02/20	0.0827	1.41	1.49	0.408	1.81		3.30
09/07/20	0.0512	0.824	0.875	<0.100	1.28		2.15
09/08/20	0.0599	0.921	0.981	<0.100	1.37	2.49	2.35
09/09/20	0.0510	0.849	0.900	<0.100	1.45		2.35
09/13/20			0.740	<0.100	1.56		2.30
09/14/20	0.0449	0.747	0.792	0.124	1.54		2.33
09/15/20	0.0584	1.02	1.08	0.174	1.73	1.76	2.81
09/16/20	0.0647	1.08	1.14	0.161	2.17		3.31
09/17/20			1.71	0.203	1.90		3.61
09/18/20			1.90	0.365	1.81		3.71
09/19/20			1.86	0.672	2.25		4.11
09/20/20			1.37	0.407	1.81		3.18
09/21/20	0.0570	0.700	0.757	0.442	1.78		2.54
09/22/20	0.0502	1.06	1.11	0.149	1.85	1.07	2.96
09/23/20	0.0452	1.21	1.26	0.115	1.52		2.78
09/24/20			1.62	0.154	1.58		3.20
09/25/20			1.69	0.451	1.92		3.61
09/26/20			1.76	0.572	2.10		3.86
09/28/20	0.0776	1.42	1.50	0.427	1.93		3.43
09/29/20	0.0778	1.56	1.64	0.858	2.50	3.46	4.14
09/30/20	0.0619	0.760	0.822	0.696	2.48		3.30
10/05/20	0.0607	1.03	1.09	0.781	2.22		3.31
10/06/20	0.0541	1.08	1.13	0.676	2.23	0.730	3.36
10/07/20	0.0422	0.727	0.769	3.40	5.13		5.90
10/12/20	0.0413	3.20	3.24	0.819	2.28		5.52
10/13/20	0.0417	1.18	1.22	1.07	2.46	1.11	3.68
10/14/20	0.0528	1.19	1.24	0.801	2.12		3.36
10/19/20	0.0681	2.11	2.18	0.435	1.78		3.96
10/20/20	0.0595	2.42	2.48	0.195	1.36	1.69	3.84
10/21/20	0.0643	2.38	2.44	0.133	1.38		3.82
10/26/20	0.0648	2.83	2.89	0.115	1.82		4.71
10/27/20	0.0666	2.51	2.58	0.217	1.81	3.88	4.39
10/28/20	0.0492	1.81	1.86	1.04	3.05		4.91
11/02/20	0.0795	3.63	3.71	1.33	2.42		6.13
11/03/20	0.0433	2.80	2.84	0.177	1.34	2.08	4.18
11/04/20	0.0484	2.85	2.90	0.219	1.59		4.49
11/09/20	0.0502	3.93	3.98	0.160	1.71		5.69
11/10/20	0.0384	3.06	3.10	<0.100	1.46	3.27	4.56
11/11/20	0.0413	2.65	2.69	<0.100	1.49		4.18
11/16/20	0.0613	2.16	2.22	0.663	2.11		4.33
11/17/20	0.0838	3.71	3.79	0.340	2	2.90	5.79
11/18/20	0.0469	4.94	4.99	0.181	1.69		6.68
11/23/20	0.0437	2.52	2.56	0.283	1.61		4.17
11/24/20	0.0576	1.98	2.04	0.193	1.70	2.85	3.74
11/25/20	0.0481	1.47	1.52	0.107	1.43		2.95
11/30/20	0.0216	0.842	0.864	4.60	6.51		7.37
12/01/20	0.0679	1.23	1.30	1.44	2.91	0.780	4.21
12/02/20	0.0708	3.24	3.31	0.156	1.36		4.67
12/07/20	0.0497	5.91	5.96	0.149	1.62		7.58
12/08/20	0.0139	4.09	4.10	<0.100	1.20	1.97	5.30
12/09/20	0.0146	4.79	4.80	<0.100	1.03		5.83
12/14/20	0.0200	4.58	4.60	<0.100	0.926		5.53
12/15/20	0.0194	4.34	4.36	<0.100	1.34	2.64	5.70
12/16/20	0.0197	4.58	4.60	<0.100	1.36		5.96
12/21/20	0.0648	3.77	3.83	<0.100	1.34		5.17
12/22/20	0.0578	3.06	3.12	0.144	1.51	2.69	4.63
12/23/20	0.0483	3.25	3.30	1.07	2.31		5.61
12/28/20	0.0519	6.91	6.96	<0.100	1.05		8.01
12/29/20	0.0587	5.92	5.98	<0.100	1.17	1.61	7.15
12/30/20	0.0609	5.73	5.79	<0.100	1.19		6.98

Table 14: Bucklin Point Influent and Effluent Nutrients

Oil and Grease Data 2020
Field's Point and Bucklin Point

Field's Point Oil and Grease 2020

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/7/2020	42.36	42.36	20.36	<4.000
2/4/2020	35.55	35.55	19.41	<4.000
3/3/2020	45.80	45.80	22.44	<4.000
4/7/2020	44.05	44.05	16.08	<4.000
5/5/2020	62.09	62.09	13.83	<4.000
6/2/2020	34.27	34.27	19.52	<4.000
7/7/2020	31.12	31.12	30.18	<4.000
8/4/2020	35.30	35.30	24.21	<4.000
9/15/2020	26.12	26.12	26.30	<4.000
10/6/2020	26.69	26.69	27.57	<4.000
11/3/2020	38.02	38.02	20.37	<4.000
12/8/2020	75.27	75.27	8.717	<4.000

Bucklin Point Oil and Grease 2020

Date	Influent Flow	Effluent Flow	Influent Average	Effluent Average
	MGD	MGD	ppm	ppm
1/7/2020	21.45	21.45	12.88	<4.000
2/4/2020	17.89	17.89	22.76	<4.000
3/3/2020	21.28	21.28	33.97	2.083
4/7/2020	20.70	20.70	13.75	<4.000
5/5/2020	25.23	25.23	13.87	<4.000
6/2/2020	17.00	17.00	17.19	<4.000
7/7/2020	14.12	14.12	24.32	<4.000
8/4/2020	15.12	15.12	29.60	<4.000
9/15/2020	11.14	11.14	30.92	<4.000
10/6/2020	11.39	11.39	32.81	<4.000
11/3/2020	14.00	14.00	21.91	<4.000
12/8/2020	24.45	24.45	16.80	<4.000

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

Field's Point Dissolved Metals 2020

all analyses 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
01/07/2020	<0.020	0.02	1.332	0.30	1.788	0.30	<0.300	0.30	11.02	0.30	<0.020	0.02	20.01	5.00	<5.00	5.00	55.62	5.00
02/04/2020	0.02262	0.02	1.195	0.30	2.484	0.30	<0.300	0.30	13.04	0.30	<0.020	0.02	25.75	5.00	<5.00	5.00	65.39	5.00
03/03/2020	<0.020	0.02	0.9302	0.30	2.440	0.30	<0.300	0.30	8.247	0.30	0.02656	0.02	23.03	5.00	<5.00	5.00	69.77	5.00
04/07/2020	<0.020	0.02	0.9919	0.30	2.973	0.30	<0.300	0.30	8.935	0.30	<0.020	0.02	22.04	5.00	<5.00	5.00	48.78	5.00
05/05/2020	<0.020	0.02	0.6906	0.30	1.490	0.30	<0.300	0.30	7.188	0.30	<0.020	0.02	16.37	5.00	<5.00	5.00	39.59	5.00
06/02/2020	<0.020	0.02	0.9644	0.30	1.636	0.30	<0.300	0.30	11.90	0.30	<0.020	0.02	18.63	5.00	<5.00	5.00	40.50	5.00
07/07/2020	<0.020	0.02	0.7414	0.30	1.363	0.30	<0.300	0.30	7.476	0.30	<0.020	0.02	20.53	5.00	<5.00	5.00	36.13	5.00
08/04/2020	<0.020	0.02	0.8378	0.30	1.720	0.30	<0.300	0.30	12.37	0.30	<0.020	0.02	18.80	5.00	<5.00	5.00	49.34	5.00
09/15/2020	<0.020	0.02	1.329	0.30	1.653	0.30	<0.300	0.30	14.53	0.30	<0.020	0.02	20.08	5.00	<5.00	5.00	58.33	5.00
10/06/2020	<0.020	0.02	1.344	0.30	1.843	0.30	<0.300	0.30	11.79	0.30	<0.020	0.02	24.31	5.00	<5.00	5.00	40.96	5.00
11/03/2020	<0.020	0.02	1.001	0.30	1.894	0.30	<0.300	0.30	9.522	0.30	<0.020	0.02	27.05	5.00	<5.00	5.00	43.54	5.00
12/08/2020	0.02118	0.02	1.710	0.30	2.857	0.30	<0.300	0.30	8.529	0.30	<0.020	0.02	20.48	5.00	<5.00	5.00	41.46	5.00

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly mean concentration	<0.020	1.09	2.01	<0.30	10.38	<0.02	21.42	<5.00	49.12
yearly median concentration	<0.020	1.00	1.82	<0.30	10.27	<0.02	20.51	<5.00	46.16
yearly minimum concentration	<0.020	0.6906	1.363	<0.300	7.188	<0.020	16.37	<5.00	36.13
yearly maximum concentration	0.02262	1.710	2.973	<0.300	14.53	0.02656	27.05	<5.00	69.77

Table 16: Field's Point Effluent Dissolved Metals

Bucklin Point Dissolved Metals 2020

all analyses 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
01/07/2020	0.03905	0.02	0.5322	0.30	4.476	0.30	<0.300	0.30	6.073	0.30	0.02419	0.02	43.79	5.00	13.93	5.00	42.33	5.00
02/04/2020	0.03148	0.02	0.3992	0.30	4.106	0.30	0.3206	0.30	7.083	0.30	0.03419	0.02	37.47	5.00	7.761	5.00	47.54	5.00
03/03/2020	0.02869	0.02	0.6137	0.30	2.500	0.30	0.4996	0.30	8.822	0.30	<0.020	0.02	37.92	5.00	7.653	5.00	43.13	5.00
04/07/2020	0.02340	0.02	0.3111	0.30	2.404	0.30	<0.300	0.30	4.025	0.30	<0.020	0.02	34.34	5.00	6.199	5.00	36.61	5.00
05/05/2020	0.02189	0.02	<0.300	0.30	2.921	0.30	<0.300	0.30	7.338	0.30	<0.020	0.02	31.96	5.00	6.273	5.00	43.65	5.00
06/02/2020	<0.020	0.02	0.4374	0.30	3.405	0.30	<0.300	0.30	16.88	0.30	<0.020	0.02	40.48	5.00	6.944	5.00	47.16	5.00
07/07/2020	0.02481	0.02	0.5242	0.30	3.697	0.30	0.3480	0.30	5.319	0.30	<0.020	0.02	38.51	5.00	6.624	5.00	54.34	5.00
08/04/2020	<0.020	0.02	0.7212	0.30	4.927	0.30	0.4208	0.30	5.666	0.30	0.02544	0.02	38.10	5.00	8.110	5.00	61.47	5.00
09/15/2020	0.02543	0.02	0.7087	0.30	5.520	0.30	0.3673	0.30	7.268	0.30	0.02968	0.02	47.76	5.00	7.957	5.00	57.56	5.00
10/06/2020	0.02495	0.02	0.753	0.30	4.944	0.30	0.4913	0.30	6.925	0.30	<0.020	0.02	45.47	5.00	9.324	5.00	47.80	5.00
11/03/2020	0.02542	0.02	2.600	0.30	5.661	0.30	0.3880	0.30	6.789	0.30	0.03208	0.02	43.09	5.00	13.61	5.00	34.27	5.00
12/08/2020	0.02111	0.02	0.5923	0.30	3.708	0.30	<0.300	0.30	6.261	0.30	0.02773	0.02	35.40	5.00	9.885	5.00	33.03	5.00

	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Al	Fe
yearly average concentration	<0.026	<0.71	4.02	<0.36	7.37	<0.02	39.52	8.69	45.74
yearly median concentration	0.025	0.56	3.91	0.33	6.86	<0.02	38.31	7.86	45.41
yearly minimum concentration	<0.020	<0.300	2.404	<0.300	4.025	<0.020	31.96	6.199	33.03
yearly maximum concentration	0.03905	2.600	5.661	0.4996	16.88	0.03419	47.76	13.93	61.47

Table 17: Bucklin Point Effluent Dissolved Metals

Field's Point Bioassay Data 2020

Field's Point WWTF Bioassay Results - 2020						
<i>Americamysis bahia</i>						
Acute	1st Quarter, 2020			2nd Quarter, 2020		
Test	Result (%)	(%)	Pass Y/N	Result (%)	(%)	Pass Y/N
LC 50	>100	>100	Y	>100	>100	Y
A-NOEC	100	N/A**	N/A	100	N/A**	N/A
	3rd Quarter, 2020			4th Quarter, 2020		
Test	Result (%)	(%)	Pass Y/N	Result (%)	(%)	Pass Y/N
LC 50	>100	>100	Y	>100	>100	Y
A-NOEC	100	N/A**	N/A	100	N/A**	N/A

* NOTE - % indicates Percent Effluent

** No permit limit exists for A-NOEC

LC 50 LC 50 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

NC Not Calculated

Field's Point WWTF Bioassay Results - 2020						
<i>Arbacia punctulata</i>						
Chronic	1st Quarter, 2020			2nd Quarter, 2020		
Test	Result (%)	(%)	Pass Y/N	Result (%)	(%)	Pass Y/N
C-NOEC	25	Required monitoring: No Limit	N/A	50	Required monitoring: No Limit	N/A
	3rd Quarter, 2020			4th Quarter, 2020		
Test	Result (%)	(%)	Pass Y/N	Result (%)	(%)	Pass Y/N
C-NOEC	100	Required monitoring: No Limit	N/A	100	Required monitoring: No Limit	N/A

* 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

Bucklin Point Bioassay Data 2020

Bucklin Point WWTF Bioassay Results - 2020						
<i>Americamysis bahia</i>						
Acute	1st Quarter, 2020			2nd Quarter, 2020		
Test	Result (%)	Permit Limit (%)	Pass Y/N	Result (%)	Permit Limit (%)	Pass Y/N
LC 50	>100	>100%	Y	>100	>100%	Y
A-NOEC	100	N/A**	N/A	100	N/A**	N/A
	3rd Quarter, 2020			4th Quarter, 2020		
Test	Result (%)	Permit Limit (%)	Pass Y/N	Result (%)	Permit Limit (%)	Pass Y/N
LC 50	>100	>100%	Y	>100	>100%	Y
A-NOEC	100	N/A**	N/A	100	N/A**	N/A

* NOTE - % indicates Percent Effluent

** No permit limit exists for A-NOEC

LC 50 The effluent concentration that causes 50% mortality during the acute toxicity test

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

Bucklin Point WWTF Bioassay Results - 2020						
<i>Arbacia punctulata</i>						
Chronic	1st Quarter, 2020			2nd Quarter, 2020		
Test	Result (%)	Permit Limit (%)	Pass Y/N	Result (%)	Permit Limit (%)	Pass Y/N
C-NOEC	50	50	Y	100	50	Y
	3rd Quarter, 2020			4th Quarter, 2020		
Test	Result (%)	Permit Limit (%)	Pass Y/N	Result (%)	Permit Limit (%)	Pass Y/N
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.

Field's Point Metals in Final Sludge, 2020

Field's Point sludge monthly mean concentration (mg/kg)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
January	4.79	2.01	3.02	24.45	206.00	51.05	0.43	10.05	28.50	5.78	7.96	372.50	4.55
February	3.88	1.96	2.93	26.85	202.50	44.35	0.77	9.78	36.40	5.20	8.01	334.50	2.45
March	4.32	1.90	2.85	25.70	204.50	55.70	0.31	9.51	24.95	4.78	6.27	365.50	2.90
April	4.79	1.88	2.82	27.45	169.50	68.00	0.27	9.40	23.00	4.56	4.70	355.50	2.14
May	6.88	2.04	3.06	32.95	196.50	72.25	0.15	10.21	29.70	5.86	5.11	419.50	2.07
June	5.76	1.97	2.96	31.15	223.00	57.35	0.16	9.87	31.15	5.65	4.93	478.50	1.99
July	5.01	1.80	2.70	38.70	231.00	131.50	0.19	9.00	30.75	5.41	4.50	575.00	1.82
August	4.88	2.14	3.21	35.20	274.00	124.50	1.36	10.70	39.25	5.51	5.35	616.50	1.00
September	4.61	2.01	3.01	39.60	315.50	117.55	0.20	12.10	39.00	5.83	5.05	677.50	3.15
October	3.91	2.14	3.20	27.50	258.50	59.05	0.13	10.67	28.95	8.18	5.34	520.50	4.78
November	3.20	1.96	2.94	24.85	240.50	60.55	0.30	12.54	31.70	5.19	4.90	422.50	3.89
December	4.26	1.89	2.83	32.50	260.00	78.10	0.16	9.90	36.75	4.84	4.72	419.00	4.98

Field's Point sludge monthly total load (lbs/month)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide	Sludge
January	6.74	2.83	4.24	34.40	289.86	71.83	0.60	14.14	40.10	8.13	11.20	524.14	6.40	1,407,100
February	4.97	2.51	3.77	34.47	259.94	56.93	0.99	12.55	46.73	6.67	10.28	429.38	3.14	1,283,660
March	5.82	2.56	3.85	34.64	275.64	75.08	0.42	12.82	33.63	6.44	8.44	492.65	3.91	1,347,880
April	6.21	2.44	3.65	35.57	219.61	88.10	0.36	12.18	29.80	5.90	6.09	460.61	2.77	1,295,660
May	7.89	2.35	3.52	37.83	225.62	82.96	0.18	11.73	34.10	6.72	5.86	481.66	2.37	1,148,180
June	7.13	2.45	3.67	38.61	276.40	71.08	0.20	12.23	38.61	7.00	6.11	593.09	2.46	1,239,480
July	6.60	2.37	3.56	51.00	304.44	173.31	0.26	11.86	40.53	7.12	5.93	757.82	2.40	1,317,940
August	5.01	2.20	3.30	36.14	281.33	127.83	1.40	10.99	40.30	5.65	5.49	633.00	1.03	1,026,760
September	4.76	2.07	3.11	40.92	325.99	121.46	0.21	12.50	40.30	6.02	5.22	700.03	3.25	1,033,260
October	4.61	2.52	3.78	32.45	305.00	69.67	0.15	12.59	34.16	9.65	6.30	614.14	5.64	1,179,900
November	3.20	1.96	2.94	24.86	240.58	60.57	0.30	12.54	31.71	5.19	4.91	422.64	3.89	1,000,340
December	5.36	2.38	3.57	40.88	327.02	98.23	0.29	12.45	46.22	6.09	5.94	527.01	4.63	1,257,780
Yearly Total (lbs/year):	68.30	28.63	42.95	441.77	3,331.46	1,097.06	5.33	148.58	456.18	80.58	81.79	6,636.18	41.89	14,537,940

Table 20: Field's Point Sludge Analysis

Field's Point Metals in Final Sludge, 2020

Date	Sludge Dry Tons	Arsenic mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Zinc mg/kg	Cyanide mg/kg
01/15/2020	21.89	4.93	<2.05	<3.08	24.20	201.00	51.10	0.51	<10.25	28.20	5.62	<5.13	386.00	<1.90
01/28/2020	30.17	4.65	<1.97	<2.96	24.70	211.00	51.00	0.34	<9.85	28.80	5.94	10.80	359.00	7.20
02/04/2020	30.54	3.69	<1.85	<2.77	28.80	187.00	41.80	0.28	<9.24	44.40	4.85	<4.62	338.00	<2.10
02/18/2020	31.43	4.06	<2.06	<3.10	24.90	218.00	46.90	<1.27	<10.32	28.40	5.54	11.40	331.00	2.80
03/03/2020	26.17	4.35	<1.90	<2.85	21.60	208.00	43.10	0.29	<9.50	25.90	4.68	7.73	347.00	3.00
03/31/2020	22.70	4.29	<1.91	<2.86	29.80	201.00	68.30	0.33	<9.52	24.00	4.88	4.80	384.00	2.80
04/07/2020	21.05	4.17	<1.90	<2.86	25.50	172.00	53.90	0.50	<9.52	23.30	5.14	<4.76	360.00	<2.40
04/28/2020	24.26	5.41	<1.86	<2.78	29.40	167.00	82.10	0.05	<9.28	22.70	3.97	<4.64	351.00	<1.87
05/05/2020	20.07	7.64	<1.93	<2.90	38.30	206.00	84.40	0.06	<9.66	31.80	5.74	<4.83	376.00	<2.05
05/26/2020	26.47	6.11	<2.15	<3.23	27.60	187.00	60.10	0.24	<10.77	27.60	5.97	<5.39	463.00	<2.08
06/02/2020	26.78	6.09	<2.01	<3.02	32.40	206.00	58.20	0.26	<10.06	31.20	5.44	<5.03	468.00	2.22
06/23/2020	22.58	5.42	<1.94	<2.90	29.90	240.00	56.50	0.06	<9.68	31.10	5.85	<4.84	489.00	<1.75
07/07/2020	26.06	5.48	<1.83	<2.74	41.10	238.00	159.00	0.23	<9.13	31.90	5.57	<4.56	599.00	<1.85
07/28/2020	15.25	4.54	<1.78	<2.66	36.30	224.00	104.00	0.15	<8.88	29.60	5.24	<4.44	551.00	<1.79
08/04/2020	29.86	4.31	<2.04	<3.05	34.20	255.00	125.00	0.32	<10.18	38.50	5.31	<5.09	608.00	<1.82
08/25/2020	2.06	5.45	<2.25	<3.37	36.20	293.00	124.00	<2.40	<11.23	40.00	5.70	<5.61	625.00	0.19
09/01/2020	25.19	5.63	<2.04	<3.06	39.40	315.00	140.00	0.23	13.00	42.50	5.74	5.17	701.00	<2.10
09/29/2020	23.81	3.58	<1.97	<2.96	39.80	316.00	95.10	0.17	11.20	35.50	5.91	<4.93	654.00	4.19
10/06/2020	21.10	3.94	<2.20	<3.31	29.50	259.00	61.90	0.10	<11.02	28.50	7.57	<5.51	527.00	5.12
10/27/2020	20.18	3.87	<2.07	<3.10	25.50	258.00	56.20	0.15	<10.33	29.40	8.78	<5.17	514.00	4.44
11/03/2020	22.09	3.37	<1.80	<2.69	26.80	225.00	70.40	<0.28	<8.98	28.20	4.82	<4.49	432.00	5.00
11/24/2020	13.86	3.02	<2.13	<3.19	22.90	256.00	50.70	0.32	16.10	35.20	5.55	<5.32	413.00	2.78
12/01/2020	35.88	3.19	<1.76	<2.64	30.30	269.00	72.90	0.23	9.70	38.60	4.97	<4.40	426.00	3.68
12/29/2020	28.68	5.33	<2.02	<3.03	34.70	251.00	83.30	0.10	<10.09	34.90	4.71	<5.05	412.00	6.27

Table 21: Field's Point Sludge Samples

Field's Point Metals Loading from Final Sludge (lbs/yr)

Year	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
1994			202.7	2628.1	13386.0	4297.2	74.0		4626.2		1113.9	15683.7	281.0
1995			203.5	2824.5	14962.8	3700.2	55.0		4202.3		818.1	13071.5	189.3
1996	132.3	4.9	186.4	3473.3	12461.8	3389.6	47.8	205.1	3860.3		757.7	11615.1	239.8
1997			189.7	3654.7	13674.5	4122.1	53.9		3400.3		867.9	12323.5	189.6
1998	44.6		208.7	2655.5	11207.8	2879.9	36.9		2188.6		698.3	10101.5	127.1
1999	35.4		233.3	2315.0	13490.2	2516.8	28.8	164.7	1887.7	74.9	677.4	11549.1	90.1
2000	42.4	32.3	352.8	1747.7	15019.4	2544.9	12.0	84.1	1191.9	23.5	384.0	6482.0	49.6
2001	88.1	16.9	205.7	2379.0	15120.0	2611.1	26.3	204.6	2008.3	282.0	634.9	13297.6	111.0
2002	84.9	7.6	154.5	1757.0	15758.0	3156.0	27.9	190.1	1555.0	190.4	651.5	15148.0	79.6
2003	53.6	9.7	183.8	1976.2	12993.4	3008.8	28.4	98.1	1485.4	118.2	466.3	12773.9	60.8
2004	43.4	12.1	221.0	3774.2	20910.1	2608.5	23.8	103.2	2472.9	163.4	501.2	14645.1	95.9
2005	79.5	13.9	250.7	4970.6	30477.9	2867.9	29.6	190.3	3092.9	167.2	478.5	20592.3	78.6
2006	85.2	11.7	131.8	1448.6	5889.2	2616.6	16.7	193.4	1181.6	136.4	452.8	12290.6	56.9
2007	18.5	12.2	64.5	612.1	3862.6	1033.7	6.8	157.1	526.2	41.8	173.4	6833.0	67.5
2008	32.9	48.3	66.7	856.5	5426.0	1793.2	74.0	294.3	841.1	39.2	195.7	9914.5	113.8
2009	38.0	33.0	82.5	919.6	4792.0	1771.9	8.4	300.2	769.1	26.5	132.2	10442.8	121.1
2010	44.8	27.6	73.5	928.9	6111.0	1770.2	60.6	276.2	874.0	33.0	151.0	9897.7	94.6
2011	40.8	26.1	123.7	1156.0	3795.4	1613.2	7.5	261.0	790.7	43.0	115.9	9026.6	71.5
2012	33.8	28.5	78.3	995.0	3892.6	1269.2	8.1	285.5	818.7	114.5	185.3	8760.1	199.1
2013	75.1	3.6	48.0	1006.5	4202.2	1454.2	8.0	99.9	757.9	168.3	189.9	8772.9	83.2
2014	82.3	3.9	41.3	847.6	3881.0	1155.1	6.7	100.7	710.8	181.8	132.3	7470.7	59.8
2015	86.3	2.4	41.3	781.1	3608.5	969.9	6.3	96.3	638.5	150.9	103.2	8008.2	69.3
2016	67.2	2.1	22.2	713.9	3385.4	1048.0	6.8	96.7	604.5	113.7	75.6	7542.4	51.3
2017	70.1	3.0	28.3	965.8	3838.7	1126.3	6.4	92.4	662.0	118.3	77.1	8073.0	38.4
2018	83.1	32.2	49.8	713.9	3828.7	1320.0	6.8	163.3	659.4	103.0	112.2	7833.8	142.8
2019	91.8	31.9	47.9	587.8	3641.3	1324.9	11.4	159.6	676.1	98.0	84.8	7917.0	51.3
2020	68.3	28.6	42.9	441.8	3331.5	1097.1	5.2	148.6	456.2	80.6	81.8	6636.2	43.5

*Laboratory calculation methodology was changed in 2018; 2017 data and earlier were slightly underestimated by previous method.

Table 22: Field's Point Sludge Summary

Bucklin Point Metals Loading in Final Sludge, 2020

Bucklin Point sludge monthly mean concentrations (mg/kg)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
January	4.19	2.44	3.66	56.25	570.50	61.70	1.02	12.19	54.55	7.03	25.20	634.50	5.50
February	4.04	2.45	3.67	57.90	581.50	66.75	0.77	12.84	53.90	6.06	23.60	663.50	10.40
March	4.51	2.32	3.48	75.10	623.50	71.75	1.07	11.85	66.65	6.22	22.20	692.00	6.65
April	4.73	2.32	3.48	78.20	629.50	90.05	0.46	13.05	67.85	7.20	21.85	730.50	2.31
May	4.93	2.29	3.43	69.20	599.00	92.85	0.48	12.15	72.55	7.30	19.10	755.50	3.98
June	4.80	2.23	3.34	69.40	633.00	90.95	0.38	12.35	81.15	7.66	15.90	810.00	2.07
July	5.32	2.22	3.33	66.45	678.50	168.00	0.63	13.30	64.45	7.50	17.60	928.00	2.12
August	4.65	2.35	3.53	57.95	613.00	151.50	0.20	12.45	51.10	6.11	18.10	874.50	1.73
September	4.40	2.29	3.43	63.35	710.00	161.50	0.22	14.65	51.50	6.43	22.65	977.50	2.07
October	4.92	2.27	3.40	65.85	686.00	72.35	0.76	15.35	51.85	7.94	24.05	927.50	2.94
November	4.33	2.41	3.61	81.75	695.50	65.15	2.13	14.85	46.70	5.18	24.65	803.00	3.17
December	4.37	2.45	3.68	74.10	731.00	68.65	0.52	13.40	43.55	5.77	22.95	768.50	13.25

Bucklin Point sludge monthly total load (lbs/month)

Month	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide	Sludge
January	1.33	0.78	1.17	17.93	181.90	19.67	0.33	3.89	17.39	2.24	8.03	202.30	1.75	318,840
February	1.22	0.74	1.11	17.51	175.89	20.19	0.23	3.88	16.30	1.83	7.14	200.70	3.15	302,480
March	1.72	0.88	1.33	28.59	237.38	27.32	0.41	4.51	25.37	2.37	8.45	263.46	2.53	380,720
April	1.80	0.88	1.32	29.74	239.44	34.25	0.18	4.96	25.81	2.74	8.31	277.85	0.88	380,360
May	1.59	0.74	1.10	22.27	192.76	29.88	0.15	3.91	23.35	2.35	6.15	243.12	1.28	321,800
June	1.67	0.78	1.17	24.20	220.71	31.71	0.13	4.31	28.30	2.67	5.54	282.43	0.72	348,680
July	2.04	0.85	1.28	25.54	260.76	64.57	0.24	5.11	24.77	2.88	6.76	356.65	0.81	384,320
August	1.54	0.78	1.17	19.22	203.36	50.26	0.07	4.13	16.95	2.03	6.00	290.11	0.57	331,740
September	1.51	0.79	1.18	21.75	243.81	55.46	0.08	5.03	17.69	2.21	7.78	335.67	0.71	343,400
October	1.78	0.82	1.23	23.87	248.72	26.23	0.28	5.57	18.80	2.88	8.72	336.27	1.06	362,560
November	1.35	0.75	1.13	25.48	216.76	20.30	0.67	4.63	14.55	1.61	7.68	250.26	0.99	311,660
December	1.31	0.74	1.11	22.30	220.02	20.66	0.23	4.03	13.11	1.74	6.91	231.30	6.80	300,980
Annual Total (lbs/year):	18.87	9.53	14.29	278.42	2,641.50	400.50	2.98	53.96	242.39	27.54	87.48	3,270.13	21.26	4,087,540

Table 23: Bucklin Point Sludge Analysis

Bucklin Point Metals in Final Sludge, 2020

	Sludge	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
Date	Dry Tons	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
01/15/2020	6.82	3.90	<2.479	<3.718	60.2	572	64	0.731	<12.393	58.5	7.71	26.6	649	3.9
01/28/2020	11.63	4.47	<2.399	<3.599	52.3	569	59.4	1.31	<11.995	50.6	6.35	23.8	620	7.1
02/04/2020	7.88	3.62	<2.397	<3.596	50.6	535	60.9	0.586	<11.987	48.4	5.44	22.7	593	10.3
02/18/2020		4.46	<2.494	<3.742	65.2	628	72.6	0.961	13.7	59.4	6.68	24.5	734	10.5
03/03/2020	6.70	4.37	<2.312	<3.468	75.3	618	67.4	1.41	11.9	64.1	5.98	22	671	8.1
03/31/2020	7.05	4.65	<2.333	<3.499	74.9	629	76.1	0.732	11.8	69.2	6.46	22.4	713	5.2
04/07/2020	7.32	4.57	<2.365	<3.548	80	660	84.9	0.761	13.8	69	7.52	22.7	740	2.5
04/28/2020	6.97	4.88	<2.277	<3.416	76.4	599	95.2	0.164	12.3	66.7	6.87	21	721	<2.11
05/05/2020	13.91	5.02	<2.238	<3.357	73.3	606	96.1	0.134	12.4	78.8	7.48	20.9	744	5.19
05/26/2020	5.37	4.84	<2.336	<3.504	65.1	592	89.6	0.826	11.9	66.3	7.11	17.3	767	2.77
06/02/2020	5.92	4.65	<2.214	<3.322	66.1	614	90.3	0.604	11.7	77.3	7.42	15.7	769	2.25
06/23/2020	4.64	4.94	<2.240	<3.361	72.7	652	91.6	0.159	13	85	7.90	16.1	851	<1.89
07/07/2020	7.04	5.21	<2.238	<3.357	70.3	674	166	0.495	13.1	70.7	7.61	17.5	903	<2.17
07/28/2020	7.16	5.42	<2.201	<3.302	62.6	683	170	0.758	13.5	58.2	7.38	17.7	953	2.07
08/04/2020	6.75	4.58	<2.230	<3.346	58	600	154	0.203	12.2	50.8	6.06	17.6	855	<1.090
08/25/2020	6.79	4.71	<2.478	<3.717	57.9	626	149	0.203	12.7	51.4	6.15	18.6	894	<2.37
09/01/2020	6.50	4.35	<2.381	<3.571	65.9	685	163	0.216	14.3	51.9	6.16	22.4	988	<2.16
09/29/2020	7.31	4.45	<2.199	<3.298	60.8	735	160	0.228	15	51.1	6.69	22.9	967	<1.98
10/06/2020	7.17	5.05	<2.256	<3.383	58.7	703	76.6	0.247	15.3	51.4	8.04	23.1	961	2.54
10/27/2020	6.34	4.78	<2.278	<3.417	73	669	68.1	1.28	15.4	52.3	7.83	25	894	3.33
11/03/2020	6.14	4.10	<2.296	<3.444	74.7	599	61.7	3.40	13.9	45.6	4.71	23.2	769	3.80
11/24/2020	6.79	4.55	<2.520	<3.780	88.8	792	68.6	0.868	15.8	47.8	5.65	26.1	837	<2.53
12/01/2020	7.12	4.36	<2.460	<3.690	75.3	723	62.8	0.753	13.6	41.9	6.41	23.6	782	22.6
12/29/2020	5.71	4.37	<2.443	<3.665	72.9	739	74.5	0.279	13.2	45.2	5.13	22.3	755	3.89

Table 24: Bucklin Point Sludge Samples

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

Year	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Zinc	Cyanide
1994	16.2		35.4	655.5	3839.7	723.4	84.2		627.6		171.3	4234.5	64.3
1995			35.8	681.0	4306.7	551.8	55.9		539.8		126.2	3495.8	57.6
1996													
1997	16.0		52.9	1177.6	4589.3	1183.6	16.0		1074.4		339.8	4349.4	58.9
1998	12.2		44.8	1263.0	4743.4	1128.3	12.2		977.8		463.4	5838.9	27.7
1999	11.1		44.4	993.6	3906.8	930.3	11.1		716.9		473.0	5945.8	24.3
2000	38.3		60.8	1304.1	5164.7	1073.2	16.8	171.8	1345.4		467.7	7104.0	24.8
2001	57.8	13.6	38.6	1003.3	4132.9	900.1	12.0	167.4	985.3	44.4	371.2	6336.5	33.6
2002	43.7	6.1	27.1	755.0	4565.0	1034.3	18.0	148.9	840.7	37.6	385.8	7226.0	13.3
2003	30.2	6.6	29.2	2669.3	3439.4	772.3	10.0	69.3	868.1	32.1	273.0	5973.1	8.9
2004	27.6	7.3	45.5	851.5	3733.7	739.0	11.6	62.0	794.7	36.1	225.0	6759.2	7.6
2005	18.8	5.9	30.9	969.5	4468.6	682.1	8.9	77.4	781.5	32.5	153.0	5469.7	10.3
2006	25.5	2.0	24.4	2398.8	3657.0	713.0	6.8	37.1	1089.2	33.9	165.4	4953.9	12.0
2007	11.2	5.2	25.7	4143.3	4676.1	633.5	9.3	70.7	1389.7	14.4	177.5	5635.0	22.8
2008	8.9	14.1	23.3	5594.6	4209.5	585.4	36.0	84.7	1568.6	17.4	116.8	5519.0	27.4
2009	18.1	8.2	20.6	1054.3	3132.4	516.6	4.6	79.6	438.2	14.6	62.5	4895.0	19.3
2010	20.7	7.0	17.5	619.0	3075.2	445.7	14.4	74.3	318.1	14.6	58.1	3949.5	17.1
2011	19.3	9.0	13.9	499.9	2159.5	474.2	4.9	90.0	294.1	15.1	66.4	3583.1	14.5
2012	18.2	8.4	13.5	370.6	2502.2	370.7	4.3	84.3	269.2	16.0	56.8	3388.8	24.9
2013	21.1	1.9	11.7	349.5	2493.6	381.4	4.0	45.4	271.9	21.2	54.1	3264.5	19.6
2014	26.7	2.6	11.1	434.6	3278.0	374.7	2.9	51.7	336.3	30.4	58.0	3510.2	19.2
2015	25.4	2.3	7.4	422.7	3125.3	367.9	3.3	49.2	346.2	31.9	54.6	3620.0	21.8
2016	24.1	2.2	5.8	397.5	2872.2	365.9	3.9	54.1	347.5	28.4	80.7	3620.5	17.9
2017	19.4	2.2	7.1	678.0	2497.0	324.5	2.3	45.3	520.9	26.9	61.2	3191.8	10.5
2018	21.6	8.8	14.6	369.7	2333.5	360.7	1.4	47.9	272.7	24.8	62.8	3149.7	14.4
2019	22.7	10.1	15.2	388.1	2819.8	416.4	3.5	56.5	332.2	30.2	63.8	3429.2	19.2
2020	18.9	9.5	14.3	278.4	2641.6	400.5	2.9	54.0	242.4	27.5	87.5	3270.3	18.4

*Laboratory calculation methodology was changed in 2018; 2017 data and earlier may be slightly underestimated by previous method.

Table 25: Bucklin Point Sludge Summary

**Bucklin Point and Field's Point 2020
Quarterly Filter Cake Data**

Plant:	Bucklin Point				Field's Point			
Quarter:	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Sample Date:	1/14/2020	5/12/2020	7/29/2020	10/20/2020	1/14/2020	5/12/2020	7/29/2020	10/20/2020
(TCLP) Arsenic (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(TCLP) Barium (mg/L)	0.118	0.133	0.100	0.098	0.137	0.168	0.316	0.237
(TCLP) Cadmium (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Chromium (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Lead (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
(TCLP) Mercury (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
(TCLP) Selenium (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
(TCLP) Silver (mg/L)	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aluminum (mg/kg)	3870	3480	4380	4120	1710	1940	3210	2620
Arsenic (mg/kg)	4.32	3.78	4.75	3.84	4.52	5.76	4.75	4.26
Beryllium (mg/kg)	<0.84	<1.04	<1.19	<1.35	<1.00	<0.81	<0.83	<1.08
Cadmium (mg/kg)	2.72	2.53	3.94	2.91	2.53	2.56	3.00	2.31
Chromium (mg/kg)	55.6	47.3	43.0	54.6	20.5	23.4	27.8	27.4
Copper (mg/kg)	555	461	623	657	164	156	264	308
Iron (mg/kg)	13700	11500	14100	12500	10800	11100	13000	11300
Lead (mg/kg)	63.3	71.5	89.5	92.9	50.3	65.4	135	108
Mercury (mg/kg)	0.634	0.671	0.36	0.452	<0.243	0.304	<0.175	0.303
Nickel (mg/kg)	59.5	54.6	49.2	51.5	26.4	58.3	30.6	34.7
Phosphorus (mg/kg)	15600	10800	13200	17100	11600	10200	8580	9610
Selenium (mg/kg)	<1.68	<2.09	<2.39	<2.71	<2.00	<1.61	<1.66	<2.16
Zinc (mg/kg)	664	621	896	1010	399	389	666	627
Total PCBs	<2.664	<2.610	<2.430	<2.529	<2.304	<2.187	<1.962	<2.106
Arachlor 1221 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1232 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1016 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1242 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1248 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1254 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1260 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1262 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Arachlor 1268 (ug/kg)	<0.296	<0.290	<0.270	<0.281	<0.256	<0.243	<0.218	<0.234
Percent Total Solids (%)	22.0	22.0	23.6	22.7	24.8	26.2	29.9	27.1
Percent Fixed Solids (%)	20	23	23	22	13	15	23	19
Percent Volatile Solids (%)	80	77	77	78	87	85	77	81
Paint Filter/Free Liquids (Present/Absent)	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
(TCLP) Benzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Carbon tetrachloride (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Chlordane (mg/L) *	<0.005	NA	NA	NA	<0.005	NA	NA	NA
(TCLP) Chlorobenzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Chloroform (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) o-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) m-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) p-Cresol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4-D (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) 1,4-Dichlorobenzene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 1,2-Dichloroethane (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 1,1-Dichloroethylene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 2,4-Dinitrotoluene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Endrin (mg/L) *	<0.002	NA	NA	NA	<0.002	NA	NA	NA

Table 26: Quarterly Filter Cake Data

**Bucklin Point and Field's Point 2020
Quarterly Filter Cake Data**

Plant:	Bucklin Point				Field's Point			
Quarter:	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Sample Date:	1/14/2020	5/12/2020	7/29/2020	10/20/2020	1/14/2020	5/12/2020	7/29/2020	10/20/2020
(TCLP) Heptachlor (and its hydroxide/epoxide) (mg/L) *	<0.001	NA	NA	NA	<0.001	NA	NA	NA
(TCLP) Hexachlorobenzene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Hexachlorobutadiene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Hexachloroethane (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Lindane (mg/L) *	<0.001	NA	NA	NA	<0.001	NA	NA	NA
(TCLP) Methoxychlor (mg/L) *	<0.010	NA	NA	NA	<0.010	NA	NA	NA
(TCLP) Methyl ethyl ketone (mg/L) *	0.13	NA	NA	NA	1.97	NA	NA	NA
(TCLP) Nitrobenzene (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Pentachlorophenol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) Pyridine (mg/L) *	<0.05	NA	NA	NA	<0.05	NA	NA	NA
(TCLP) Tetrachloroethylene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) Toxaphene (mg/L) *	<0.100	NA	NA	NA	<0.100	NA	NA	NA
(TCLP) Trichloroethylene (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
(TCLP) 2,4,5-Trichlorophenol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4,6-Trichlorophenol (mg/L) *	<0.10	NA	NA	NA	<0.10	NA	NA	NA
(TCLP) 2,4,5-TP (Silvex) (mg/L) *	<0.01	NA	NA	NA	<0.01	NA	NA	NA
(TCLP) Vinyl chloride (mg/L) *	<0.02	NA	NA	NA	<0.02	NA	NA	NA
Corrosivity/pH (SU)	8.1	8.4	8.2	8.2	5.4	5.6	5.0	5.0
Flash Point/Ignitability (°F) *	>200	NA	NA	NA	>200	NA	NA	NA
Reactive Cyanide (mg/kg) *	<0.9	NA	NA	NA	<0.8	NA	NA	NA
Reactive Sulfide (mg/kg) *	<0.5	NA	NA	NA	<0.4	NA	NA	NA
Percent Total Sulfur (%) *	NA	NA	NA	NA	NA	NA	NA	NA
Sulfur (mg/kg)**	10600	NA	NA	NA	6130	NA	NA	NA

*Parameter analysis required annually

**Lab reported units of mg/kg instead of converting to percent total sulfur as ordered.

NA = Not Analyzed

All samples analyzed by New England Testing Laboratory, West Warwick, Rhode Island

Table 26: Quarterly Filter Cake Data

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2020	(m & p) Xylene	<0.002	ppm
1/7/2020	(o) Xylene	<0.001	ppm
1/7/2020	1,1,1-Trichloroethane	<0.001	ppm
1/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/7/2020	1,1,2-Trichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethene	<0.001	ppm
1/7/2020	1,2-Dichlorobenzene	<0.001	ppm
1/7/2020	1,2-Dichloroethane	<0.001	ppm
1/7/2020	1,2-Dichloropropane	<0.001	ppm
1/7/2020	1,3-Dichlorobenzene	<0.001	ppm
1/7/2020	1,4-Dichlorobenzene	<0.001	ppm
1/7/2020	2-Chloroethylvinylether	<0.001	ppm
1/7/2020	Acetone	0.133	ppm
1/7/2020	Acrolein	<0.001	ppm
1/7/2020	Acrylonitrile	<0.001	ppm
1/7/2020	Benzene	<0.001	ppm
1/7/2020	Bromodichloromethane	<0.001	ppm
1/7/2020	Bromoform	<0.001	ppm
1/7/2020	Bromomethane	<0.002	ppm
1/7/2020	Carbon Tetrachloride	<0.001	ppm
1/7/2020	Chlorobenzene	<0.001	ppm
1/7/2020	Chloroethane	<0.001	ppm
1/7/2020	Chloroform	0.00281	ppm
1/7/2020	Chloromethane	<0.001	ppm
1/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Dibromochloromethane	<0.001	ppm
1/7/2020	Ethylbenzene	<0.001	ppm
1/7/2020	Methylene Chloride	<0.001	ppm
1/7/2020	Tetrachloroethene	0.00119	ppm
1/7/2020	Toluene	0.00105	ppm
1/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
1/7/2020	trans-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Trichloroethene	0.00110	ppm
1/7/2020	Trichlorofluoromethane	<0.001	ppm
1/7/2020	Vinyl Chloride	<0.001	ppm
2/4/2020	(m & p) Xylene	<0.002	ppm
2/4/2020	(o) Xylene	<0.001	ppm
2/4/2020	1,1,1-Trichloroethane	<0.001	ppm
2/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2020	1,1,2-Trichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethene	<0.001	ppm
2/4/2020	1,2-Dichlorobenzene	<0.001	ppm
2/4/2020	1,2-Dichloroethane	<0.001	ppm
2/4/2020	1,2-Dichloropropane	<0.001	ppm
2/4/2020	1,3-Dichlorobenzene	<0.001	ppm
2/4/2020	1,4-Dichlorobenzene	<0.001	ppm
2/4/2020	2-Chloroethylvinylether	<0.001	ppm
2/4/2020	Acetone	0.110	ppm
2/4/2020	Acrolein	<0.001	ppm
2/4/2020	Acrylonitrile	<0.001	ppm
2/4/2020	Benzene	<0.001	ppm
2/4/2020	Bromodichloromethane	<0.001	ppm
2/4/2020	Bromoform	<0.001	ppm
2/4/2020	Bromomethane	<0.002	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2020	(m & p) Xylene	<0.002	ppm
1/7/2020	(o) Xylene	<0.001	ppm
1/7/2020	1,1,1-Trichloroethane	<0.001	ppm
1/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/7/2020	1,1,2-Trichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethene	<0.001	ppm
1/7/2020	1,2-Dichlorobenzene	<0.001	ppm
1/7/2020	1,2-Dichloroethane	<0.001	ppm
1/7/2020	1,2-Dichloropropane	<0.001	ppm
1/7/2020	1,3-Dichlorobenzene	<0.001	ppm
1/7/2020	1,4-Dichlorobenzene	<0.001	ppm
1/7/2020	2-Chloroethylvinylether	<0.001	ppm
1/7/2020	Acetone	0.00155	ppm
1/7/2020	Acrolein	<0.001	ppm
1/7/2020	Acrylonitrile	<0.001	ppm
1/7/2020	Benzene	<0.001	ppm
1/7/2020	Bromodichloromethane	<0.001	ppm
1/7/2020	Bromoform	<0.001	ppm
1/7/2020	Bromomethane	<0.002	ppm
1/7/2020	Carbon Tetrachloride	<0.001	ppm
1/7/2020	Chlorobenzene	<0.001	ppm
1/7/2020	Chloroethane	<0.001	ppm
1/7/2020	Chloroform	<0.001	ppm
1/7/2020	Chloromethane	<0.001	ppm
1/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Dibromochloromethane	<0.001	ppm
1/7/2020	Ethylbenzene	<0.001	ppm
1/7/2020	Methylene Chloride	<0.001	ppm
1/7/2020	Tetrachloroethene	<0.001	ppm
1/7/2020	Toluene	<0.001	ppm
1/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
1/7/2020	trans-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Trichloroethene	<0.001	ppm
1/7/2020	Trichlorofluoromethane	<0.001	ppm
1/7/2020	Vinyl Chloride	<0.001	ppm
2/4/2020	(m & p) Xylene	<0.002	ppm
2/4/2020	(o) Xylene	<0.001	ppm
2/4/2020	1,1,1-Trichloroethane	<0.001	ppm
2/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2020	1,1,2-Trichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethene	<0.001	ppm
2/4/2020	1,2-Dichlorobenzene	<0.001	ppm
2/4/2020	1,2-Dichloroethane	<0.001	ppm
2/4/2020	1,2-Dichloropropane	<0.001	ppm
2/4/2020	1,3-Dichlorobenzene	<0.001	ppm
2/4/2020	1,4-Dichlorobenzene	<0.001	ppm
2/4/2020	2-Chloroethylvinylether	<0.001	ppm
2/4/2020	Acetone	0.00122	ppm
2/4/2020	Acrolein	<0.001	ppm
2/4/2020	Acrylonitrile	<0.001	ppm
2/4/2020	Benzene	<0.001	ppm
2/4/2020	Bromodichloromethane	<0.001	ppm
2/4/2020	Bromoform	<0.001	ppm
2/4/2020	Bromomethane	<0.002	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2020	Carbon Tetrachloride	<0.001	ppm
2/4/2020	Chlorobenzene	<0.001	ppm
2/4/2020	Chloroethane	<0.001	ppm
2/4/2020	Chloroform	0.00425	ppm
2/4/2020	Chloromethane	<0.001	ppm
2/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Dibromochloromethane	<0.001	ppm
2/4/2020	Ethylbenzene	<0.001	ppm
2/4/2020	Methylene Chloride	<0.001	ppm
2/4/2020	Tetrachloroethene	0.00145	ppm
2/4/2020	Toluene	0.00106	ppm
2/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Trichloroethene	<0.001	ppm
2/4/2020	Trichlorofluoromethane	<0.001	ppm
2/4/2020	Vinyl Chloride	<0.001	ppm
3/3/2020	(m & p) Xylene	<0.002	ppm
3/3/2020	(o) Xylene	<0.001	ppm
3/3/2020	1,1,1-Trichloroethane	<0.001	ppm
3/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/3/2020	1,1,2-Trichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethene	<0.001	ppm
3/3/2020	1,2-Dichlorobenzene	<0.001	ppm
3/3/2020	1,2-Dichloroethane	<0.001	ppm
3/3/2020	1,2-Dichloropropane	<0.001	ppm
3/3/2020	1,3-Dichlorobenzene	<0.001	ppm
3/3/2020	1,4-Dichlorobenzene	<0.001	ppm
3/3/2020	2-Chloroethylvinylether	<0.001	ppm
3/3/2020	Acetone	0.131	ppm
3/3/2020	Acrolein	<0.001	ppm
3/3/2020	Acrylonitrile	<0.001	ppm
3/3/2020	Benzene	<0.001	ppm
3/3/2020	Bromodichloromethane	<0.001	ppm
3/3/2020	Bromoform	<0.001	ppm
3/3/2020	Bromomethane	<0.002	ppm
3/3/2020	Carbon Tetrachloride	<0.001	ppm
3/3/2020	Chlorobenzene	<0.001	ppm
3/3/2020	Chloroethane	<0.001	ppm
3/3/2020	Chloroform	0.00503	ppm
3/3/2020	Chloromethane	<0.001	ppm
3/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Dibromochloromethane	<0.001	ppm
3/3/2020	Ethylbenzene	<0.001	ppm
3/3/2020	Methylene Chloride	<0.001	ppm
3/3/2020	Tetrachloroethene	0.00124	ppm
3/3/2020	Toluene	0.00128	ppm
3/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
3/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Trichloroethene	<0.001	ppm
3/3/2020	Trichlorofluoromethane	<0.001	ppm
3/3/2020	Vinyl Chloride	<0.001	ppm
4/7/2020	(m & p) Xylene	<0.002	ppm
4/7/2020	(o) Xylene	<0.001	ppm
4/7/2020	1,1,1-Trichloroethane	<0.001	ppm
4/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2020	Carbon Tetrachloride	<0.001	ppm
2/4/2020	Chlorobenzene	<0.001	ppm
2/4/2020	Chloroethane	<0.001	ppm
2/4/2020	Chloroform	0.00120	ppm
2/4/2020	Chloromethane	<0.001	ppm
2/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Dibromochloromethane	<0.001	ppm
2/4/2020	Ethylbenzene	<0.001	ppm
2/4/2020	Methylene Chloride	0.00132	ppm
2/4/2020	Tetrachloroethene	<0.001	ppm
2/4/2020	Toluene	<0.001	ppm
2/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Trichloroethene	<0.001	ppm
2/4/2020	Trichlorofluoromethane	<0.001	ppm
2/4/2020	Vinyl Chloride	<0.001	ppm
3/3/2020	(m & p) Xylene	<0.002	ppm
3/3/2020	(o) Xylene	<0.001	ppm
3/3/2020	1,1,1-Trichloroethane	<0.001	ppm
3/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/3/2020	1,1,2-Trichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethene	<0.001	ppm
3/3/2020	1,2-Dichlorobenzene	<0.001	ppm
3/3/2020	1,2-Dichloroethane	<0.001	ppm
3/3/2020	1,2-Dichloropropane	<0.001	ppm
3/3/2020	1,3-Dichlorobenzene	<0.001	ppm
3/3/2020	1,4-Dichlorobenzene	<0.001	ppm
3/3/2020	2-Chloroethylvinylether	<0.001	ppm
3/3/2020	Acetone	0.00105	ppm
3/3/2020	Acrolein	<0.001	ppm
3/3/2020	Acrylonitrile	<0.001	ppm
3/3/2020	Benzene	<0.001	ppm
3/3/2020	Bromodichloromethane	<0.001	ppm
3/3/2020	Bromoform	<0.001	ppm
3/3/2020	Bromomethane	<0.002	ppm
3/3/2020	Carbon Tetrachloride	<0.001	ppm
3/3/2020	Chlorobenzene	<0.001	ppm
3/3/2020	Chloroethane	<0.001	ppm
3/3/2020	Chloroform	0.00104	ppm
3/3/2020	Chloromethane	<0.001	ppm
3/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Dibromochloromethane	<0.001	ppm
3/3/2020	Ethylbenzene	<0.001	ppm
3/3/2020	Methylene Chloride	<0.001	ppm
3/3/2020	Tetrachloroethene	<0.001	ppm
3/3/2020	Toluene	<0.001	ppm
3/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
3/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Trichloroethene	<0.001	ppm
3/3/2020	Trichlorofluoromethane	<0.001	ppm
3/3/2020	Vinyl Chloride	<0.001	ppm
4/7/2020	(m & p) Xylene	<0.002	ppm
4/7/2020	(o) Xylene	<0.001	ppm
4/7/2020	1,1,1-Trichloroethane	<0.001	ppm
4/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
4/7/2020	1,1,2-Trichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethene	<0.001	ppm
4/7/2020	1,2-Dichlorobenzene	<0.001	ppm
4/7/2020	1,2-Dichloroethane	<0.001	ppm
4/7/2020	1,2-Dichloropropane	<0.001	ppm
4/7/2020	1,3-Dichlorobenzene	<0.001	ppm
4/7/2020	1,4-Dichlorobenzene	<0.001	ppm
4/7/2020	2-Chloroethylvinylether	<0.001	ppm
4/7/2020	Acetone	0.113	ppm
4/7/2020	Acrolein	<0.001	ppm
4/7/2020	Acrylonitrile	<0.001	ppm
4/7/2020	Benzene	<0.001	ppm
4/7/2020	Bromodichloromethane	<0.001	ppm
4/7/2020	Bromoform	<0.001	ppm
4/7/2020	Bromomethane	<0.002	ppm
4/7/2020	Carbon Tetrachloride	<0.001	ppm
4/7/2020	Chlorobenzene	<0.001	ppm
4/7/2020	Chloroethane	<0.001	ppm
4/7/2020	Chloroform	0.00341	ppm
4/7/2020	Chloromethane	<0.001	ppm
4/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Dibromochloromethane	<0.001	ppm
4/7/2020	Ethylbenzene	<0.001	ppm
4/7/2020	Methylene Chloride	<0.001	ppm
4/7/2020	Tetrachloroethene	0.00131	ppm
4/7/2020	Toluene	0.00103	ppm
4/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
4/7/2020	trans-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Trichloroethene	<0.001	ppm
4/7/2020	Trichlorofluoromethane	<0.001	ppm
4/7/2020	Vinyl Chloride	<0.001	ppm
5/5/2020	(m & p) Xylene	<0.002	ppm
5/5/2020	(o) Xylene	<0.001	ppm
5/5/2020	1,1,1-Trichloroethane	<0.001	ppm
5/5/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/5/2020	1,1,2-Trichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethene	<0.001	ppm
5/5/2020	1,2-Dichlorobenzene	<0.001	ppm
5/5/2020	1,2-Dichloroethane	<0.001	ppm
5/5/2020	1,2-Dichloropropane	<0.001	ppm
5/5/2020	1,3-Dichlorobenzene	<0.001	ppm
5/5/2020	1,4-Dichlorobenzene	<0.001	ppm
5/5/2020	2-Chloroethylvinylether	<0.001	ppm
5/5/2020	Acetone	0.0833	ppm
5/5/2020	Acrolein	<0.001	ppm
5/5/2020	Acrylonitrile	<0.001	ppm
5/5/2020	Benzene	<0.001	ppm
5/5/2020	Bromodichloromethane	<0.001	ppm
5/5/2020	Bromoform	<0.001	ppm
5/5/2020	Bromomethane	<0.002	ppm
5/5/2020	Carbon Tetrachloride	<0.001	ppm
5/5/2020	Chlorobenzene	<0.001	ppm
5/5/2020	Chloroethane	<0.001	ppm
5/5/2020	Chloroform	0.00330	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
4/7/2020	1,1,2-Trichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethene	<0.001	ppm
4/7/2020	1,2-Dichlorobenzene	<0.001	ppm
4/7/2020	1,2-Dichloroethane	<0.001	ppm
4/7/2020	1,2-Dichloropropane	<0.001	ppm
4/7/2020	1,3-Dichlorobenzene	<0.001	ppm
4/7/2020	1,4-Dichlorobenzene	<0.001	ppm
4/7/2020	2-Chloroethylvinylether	<0.001	ppm
4/7/2020	Acetone	0.00482	ppm
4/7/2020	Acrolein	<0.001	ppm
4/7/2020	Acrylonitrile	<0.001	ppm
4/7/2020	Benzene	<0.001	ppm
4/7/2020	Bromodichloromethane	0.00673	ppm
4/7/2020	Bromoform	0.00234	ppm
4/7/2020	Bromomethane	0.00497	ppm
4/7/2020	Carbon Tetrachloride	<0.001	ppm
4/7/2020	Chlorobenzene	<0.001	ppm
4/7/2020	Chloroethane	<0.001	ppm
4/7/2020	Chloroform	0.00491	ppm
4/7/2020	Chloromethane	0.00112	ppm
4/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Dibromochloromethane	0.00573	ppm
4/7/2020	Ethylbenzene	<0.001	ppm
4/7/2020	Methylene Chloride	<0.001	ppm
4/7/2020	Tetrachloroethene	<0.001	ppm
4/7/2020	Toluene	<0.001	ppm
4/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
4/7/2020	trans-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Trichloroethene	<0.001	ppm
4/7/2020	Trichlorofluoromethane	<0.001	ppm
4/7/2020	Vinyl Chloride	<0.001	ppm
5/5/2020	(m & p) Xylene	<0.002	ppm
5/5/2020	(o) Xylene	<0.001	ppm
5/5/2020	1,1,1-Trichloroethane	<0.001	ppm
5/5/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/5/2020	1,1,2-Trichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethene	<0.001	ppm
5/5/2020	1,2-Dichlorobenzene	<0.001	ppm
5/5/2020	1,2-Dichloroethane	<0.001	ppm
5/5/2020	1,2-Dichloropropane	<0.001	ppm
5/5/2020	1,3-Dichlorobenzene	<0.001	ppm
5/5/2020	1,4-Dichlorobenzene	<0.001	ppm
5/5/2020	2-Chloroethylvinylether	<0.001	ppm
5/5/2020	Acetone	0.00157	ppm
5/5/2020	Acrolein	<0.001	ppm
5/5/2020	Acrylonitrile	<0.001	ppm
5/5/2020	Benzene	<0.001	ppm
5/5/2020	Bromodichloromethane	0.00497	ppm
5/5/2020	Bromoform	0.00289	ppm
5/5/2020	Bromomethane	<0.002	ppm
5/5/2020	Carbon Tetrachloride	<0.001	ppm
5/5/2020	Chlorobenzene	<0.001	ppm
5/5/2020	Chloroethane	<0.001	ppm
5/5/2020	Chloroform	0.00336	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
5/5/2020	Chloromethane	<0.001	ppm
5/5/2020	cis-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Dibromochloromethane	<0.001	ppm
5/5/2020	Ethylbenzene	<0.001	ppm
5/5/2020	Methylene Chloride	<0.001	ppm
5/5/2020	Tetrachloroethene	0.00118	ppm
5/5/2020	Toluene	<0.001	ppm
5/5/2020	trans-1,2-Dichloroethene	<0.001	ppm
5/5/2020	trans-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Trichloroethene	<0.001	ppm
5/5/2020	Trichlorofluoromethane	<0.001	ppm
5/5/2020	Vinyl Chloride	<0.001	ppm
6/2/2020	(m & p) Xylene	<0.002	ppm
6/2/2020	(o) Xylene	<0.001	ppm
6/2/2020	1,1,1-Trichloroethane	<0.001	ppm
6/2/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/2/2020	1,1,2-Trichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethene	<0.001	ppm
6/2/2020	1,2-Dichlorobenzene	<0.001	ppm
6/2/2020	1,2-Dichloroethane	<0.001	ppm
6/2/2020	1,2-Dichloropropane	<0.001	ppm
6/2/2020	1,3-Dichlorobenzene	<0.001	ppm
6/2/2020	1,4-Dichlorobenzene	<0.001	ppm
6/2/2020	2-Chloroethylvinylether	<0.001	ppm
6/2/2020	Acetone	0.0519	ppm
6/2/2020	Acrolein	<0.001	ppm
6/2/2020	Acrylonitrile	<0.001	ppm
6/2/2020	Benzene	<0.001	ppm
6/2/2020	Bromodichloromethane	<0.001	ppm
6/2/2020	Bromoform	<0.001	ppm
6/2/2020	Bromomethane	<0.002	ppm
6/2/2020	Carbon Tetrachloride	<0.001	ppm
6/2/2020	Chlorobenzene	<0.001	ppm
6/2/2020	Chloroethane	<0.001	ppm
6/2/2020	Chloroform	0.00421	ppm
6/2/2020	Chloromethane	<0.001	ppm
6/2/2020	cis-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Dibromochloromethane	<0.001	ppm
6/2/2020	Ethylbenzene	<0.001	ppm
6/2/2020	Methylene Chloride	0.00130	ppm
6/2/2020	Tetrachloroethene	0.00132	ppm
6/2/2020	Toluene	0.00169	ppm
6/2/2020	trans-1,2-Dichloroethene	<0.001	ppm
6/2/2020	trans-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Trichloroethene	<0.001	ppm
6/2/2020	Trichlorofluoromethane	<0.001	ppm
6/2/2020	Vinyl Chloride	<0.001	ppm
7/7/2020	(m & p) Xylene	0.00915	ppm
7/7/2020	(o) Xylene	< 0.0025	ppm
7/7/2020	1,1,1-Trichloroethane	< 0.0025	ppm
7/7/2020	1,1,2,2-Tetrachloroethane	< 0.0025	ppm
7/7/2020	1,1,2-Trichloroethane	< 0.0025	ppm
7/7/2020	1,1-Dichloroethane	< 0.0025	ppm
7/7/2020	1,1-Dichloroethene	< 0.0025	ppm
7/7/2020	1,2-Dichlorobenzene	< 0.0025	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
5/5/2020	Chloromethane	<0.001	ppm
5/5/2020	cis-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Dibromochloromethane	0.00694	ppm
5/5/2020	Ethylbenzene	<0.001	ppm
5/5/2020	Methylene Chloride	<0.001	ppm
5/5/2020	Tetrachloroethene	<0.001	ppm
5/5/2020	Toluene	<0.001	ppm
5/5/2020	trans-1,2-Dichloroethene	<0.001	ppm
5/5/2020	trans-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Trichloroethene	<0.001	ppm
5/5/2020	Trichlorofluoromethane	<0.001	ppm
5/5/2020	Vinyl Chloride	<0.001	ppm
6/2/2020	(m & p) Xylene	<0.002	ppm
6/2/2020	(o) Xylene	<0.001	ppm
6/2/2020	1,1,1-Trichloroethane	<0.001	ppm
6/2/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/2/2020	1,1,2-Trichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethene	<0.001	ppm
6/2/2020	1,2-Dichlorobenzene	<0.001	ppm
6/2/2020	1,2-Dichloroethane	<0.001	ppm
6/2/2020	1,2-Dichloropropane	<0.001	ppm
6/2/2020	1,3-Dichlorobenzene	<0.001	ppm
6/2/2020	1,4-Dichlorobenzene	<0.001	ppm
6/2/2020	2-Chloroethylvinylether	<0.001	ppm
6/2/2020	Acetone	0.00161	ppm
6/2/2020	Acrolein	<0.001	ppm
6/2/2020	Acrylonitrile	<0.001	ppm
6/2/2020	Benzene	<0.001	ppm
6/2/2020	Bromodichloromethane	0.0123	ppm
6/2/2020	Bromoform	0.00320	ppm
6/2/2020	Bromomethane	0.0278	ppm
6/2/2020	Carbon Tetrachloride	<0.001	ppm
6/2/2020	Chlorobenzene	<0.001	ppm
6/2/2020	Chloroethane	<0.001	ppm
6/2/2020	Chloroform	0.00682	ppm
6/2/2020	Chloromethane	0.00193	ppm
6/2/2020	cis-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Dibromochloromethane	0.0116	ppm
6/2/2020	Ethylbenzene	<0.001	ppm
6/2/2020	Methylene Chloride	<0.001	ppm
6/2/2020	Tetrachloroethene	<0.001	ppm
6/2/2020	Toluene	<0.001	ppm
6/2/2020	trans-1,2-Dichloroethene	<0.001	ppm
6/2/2020	trans-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Trichloroethene	<0.001	ppm
6/2/2020	Trichlorofluoromethane	<0.001	ppm
6/2/2020	Vinyl Chloride	<0.001	ppm
7/7/2020	(m & p) Xylene	0.002500	ppm
7/7/2020	(o) Xylene	<0.00250	ppm
7/7/2020	1,1,1-Trichloroethane	<0.00250	ppm
7/7/2020	1,1,2,2-Tetrachloroethane	<0.00250	ppm
7/7/2020	1,1,2-Trichloroethane	<0.00250	ppm
7/7/2020	1,1-Dichloroethane	<0.00250	ppm
7/7/2020	1,1-Dichloroethene	<0.00250	ppm
7/7/2020	1,2-Dichlorobenzene	<0.00250	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
7/7/2020	1,2-Dichloroethane	< 0.0025	ppm
7/7/2020	1,2-Dichloropropane	< 0.0025	ppm
7/7/2020	1,3-Dichlorobenzene	< 0.0025	ppm
7/7/2020	1,4-Dichlorobenzene	< 0.0025	ppm
7/7/2020	2-Chloroethylvinylether	< 0.0025	ppm
7/7/2020	Acetone	0.135	ppm
7/7/2020	Acrolein	<0.010	ppm
7/7/2020	Acrylonitrile	<0.010	ppm
7/7/2020	Benzene	< 0.0025	ppm
7/7/2020	Bromodichloromethane	< 0.0025	ppm
7/7/2020	Bromoform	< 0.0025	ppm
7/7/2020	Bromomethane	<0.010	ppm
7/7/2020	Carbon Tetrachloride	< 0.0025	ppm
7/7/2020	Chlorobenzene	< 0.0025	ppm
7/7/2020	Chloroethane	<0.010	ppm
7/7/2020	Chloroform	< 0.0025	ppm
7/7/2020	Chloromethane	<0.010	ppm
7/7/2020	cis-1,3-Dichloropropene	< 0.0025	ppm
7/7/2020	Dibromochloromethane	< 0.0025	ppm
7/7/2020	Ethylbenzene	< 0.0025	ppm
7/7/2020	Methylene Chloride	<0.005	ppm
7/7/2020	Tetrachloroethene	< 0.0025	ppm
7/7/2020	Toluene	< 0.0025	ppm
7/7/2020	trans-1,2-Dichloroethene	< 0.0025	ppm
7/7/2020	trans-1,3-Dichloropropene	< 0.0025	ppm
7/7/2020	Trichloroethene	< 0.0025	ppm
7/7/2020	Trichlorofluoromethane	< 0.0025	ppm
7/7/2020	Vinyl Chloride	< 0.0025	ppm
8/4/2020	(m & p) Xylene	<0.002	ppm
8/4/2020	(o) Xylene	<0.001	ppm
8/4/2020	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethene	<0.001	ppm
8/4/2020	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	1,2-Dichloroethane	<0.001	ppm
8/4/2020	1,2-Dichloropropane	<0.001	ppm
8/4/2020	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	Acetone	0.0650	ppm
8/4/2020	Acrolein	<0.001	ppm
8/4/2020	Acrylonitrile	<0.001	ppm
8/4/2020	Benzene	<0.001	ppm
8/4/2020	Bromodichloromethane	<0.001	ppm
8/4/2020	Bromoform	<0.001	ppm
8/4/2020	Bromomethane	<0.002	ppm
8/4/2020	Carbon Tetrachloride	<0.001	ppm
8/4/2020	Chlorobenzene	<0.001	ppm
8/4/2020	Chloroethane	<0.001	ppm
8/4/2020	Chloroform	<0.001	ppm
8/4/2020	Chloromethane	<0.001	ppm
8/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Dibromochloromethane	<0.001	ppm
8/4/2020	Ethylbenzene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
7/7/2020	1,2-Dichloroethane	<0.00250	ppm
7/7/2020	1,2-Dichloropropane	<0.00250	ppm
7/7/2020	1,3-Dichlorobenzene	<0.00250	ppm
7/7/2020	1,4-Dichlorobenzene	<0.00250	ppm
7/7/2020	2-Chloroethylvinylether	<0.00250	ppm
7/7/2020	Acetone	<0.02500	ppm
7/7/2020	Acrolein	<0.0025	ppm
7/7/2020	Acrylonitrile	<0.00250	ppm
7/7/2020	Benzene	<0.00250	ppm
7/7/2020	Bromodichloromethane	0.012600	ppm
7/7/2020	Bromoform	0.006150	ppm
7/7/2020	Bromomethane	<0.00250	ppm
7/7/2020	Carbon Tetrachloride	<0.00250	ppm
7/7/2020	Chlorobenzene	<0.00250	ppm
7/7/2020	Chloroethane	<0.00250	ppm
7/7/2020	Chloroform	0.006650	ppm
7/7/2020	Chloromethane	<0.00250	ppm
7/7/2020	cis-1,3-Dichloropropene	<0.00250	ppm
7/7/2020	Dibromochloromethane	0.015800	ppm
7/7/2020	Ethylbenzene	<0.00250	ppm
7/7/2020	Methylene Chloride	<0.00250	ppm
7/7/2020	Tetrachloroethene	<0.00250	ppm
7/7/2020	Toluene	<0.00250	ppm
7/7/2020	trans-1,2-Dichloroethene	<0.00250	ppm
7/7/2020	trans-1,3-Dichloropropene	<0.00250	ppm
7/7/2020	Trichloroethene	<0.00250	ppm
7/7/2020	Trichlorofluoromethane	<0.00250	ppm
7/7/2020	Vinyl Chloride	<0.00250	ppm
8/4/2020	(m & p) Xylene	<0.002	ppm
8/4/2020	(o) Xylene	<0.001	ppm
8/4/2020	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethene	<0.001	ppm
8/4/2020	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	1,2-Dichloroethane	<0.001	ppm
8/4/2020	1,2-Dichloropropane	<0.001	ppm
8/4/2020	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	Acetone	0.00157	ppm
8/4/2020	Acrolein	<0.001	ppm
8/4/2020	Acrylonitrile	<0.001	ppm
8/4/2020	Benzene	<0.001	ppm
8/4/2020	Bromodichloromethane	<0.001	ppm
8/4/2020	Bromoform	<0.001	ppm
8/4/2020	Bromomethane	<0.002	ppm
8/4/2020	Carbon Tetrachloride	<0.001	ppm
8/4/2020	Chlorobenzene	<0.001	ppm
8/4/2020	Chloroethane	<0.001	ppm
8/4/2020	Chloroform	<0.001	ppm
8/4/2020	Chloromethane	<0.001	ppm
8/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Dibromochloromethane	<0.001	ppm
8/4/2020	Ethylbenzene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
8/4/2020	Methylene Chloride	<0.001	ppm
8/4/2020	Tetrachloroethene	<0.001	ppm
8/4/2020	Toluene	0.00401	ppm
8/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Trichloroethene	<0.001	ppm
8/4/2020	Trichlorofluoromethane	<0.001	ppm
8/4/2020	Vinyl Chloride	<0.001	ppm
9/15/2020	(m & p) Xylene	<0.002	ppm
9/15/2020	(o) Xylene	<0.001	ppm
9/15/2020	1,1,1-Trichloroethane	<0.001	ppm
9/15/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/15/2020	1,1,2-Trichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethene	<0.001	ppm
9/15/2020	1,2-Dichlorobenzene	<0.001	ppm
9/15/2020	1,2-Dichloroethane	<0.001	ppm
9/15/2020	1,2-Dichloropropane	<0.001	ppm
9/15/2020	1,3-Dichlorobenzene	<0.001	ppm
9/15/2020	1,4-Dichlorobenzene	<0.001	ppm
9/15/2020	2-Chloroethylvinylether	<0.001	ppm
9/15/2020	Acetone	0.0771	ppm
9/15/2020	Acrolein	<0.001	ppm
9/15/2020	Acrylonitrile	<0.001	ppm
9/15/2020	Benzene	<0.001	ppm
9/15/2020	Bromodichloromethane	<0.001	ppm
9/15/2020	Bromoform	<0.001	ppm
9/15/2020	Bromomethane	<0.002	ppm
9/15/2020	Carbon Tetrachloride	<0.001	ppm
9/15/2020	Chlorobenzene	<0.001	ppm
9/15/2020	Chloroethane	<0.001	ppm
9/15/2020	Chloroform	0.00263	ppm
9/15/2020	Chloromethane	<0.001	ppm
9/15/2020	cis-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Dibromochloromethane	<0.001	ppm
9/15/2020	Ethylbenzene	<0.001	ppm
9/15/2020	Methylene Chloride	<0.001	ppm
9/15/2020	Tetrachloroethene	<0.001	ppm
9/15/2020	Toluene	0.00196	ppm
9/15/2020	trans-1,2-Dichloroethene	<0.001	ppm
9/15/2020	trans-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Trichloroethene	<0.001	ppm
9/15/2020	Trichlorofluoromethane	<0.001	ppm
9/15/2020	Vinyl Chloride	<0.001	ppm
10/6/2020	(m & p) Xylene	<0.002	ppm
10/6/2020	(o) Xylene	<0.001	ppm
10/6/2020	1,1,1-Trichloroethane	<0.001	ppm
10/6/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/6/2020	1,1,2-Trichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethene	<0.001	ppm
10/6/2020	1,2-Dichlorobenzene	<0.001	ppm
10/6/2020	1,2-Dichloroethane	<0.001	ppm
10/6/2020	1,2-Dichloropropane	<0.001	ppm
10/6/2020	1,3-Dichlorobenzene	<0.001	ppm
10/6/2020	1,4-Dichlorobenzene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
8/4/2020	Methylene Chloride	<0.001	ppm
8/4/2020	Tetrachloroethene	<0.001	ppm
8/4/2020	Toluene	<0.001	ppm
8/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Trichloroethene	<0.001	ppm
8/4/2020	Trichlorofluoromethane	<0.001	ppm
8/4/2020	Vinyl Chloride	<0.001	ppm
9/15/2020	(m & p) Xylene	<0.002	ppm
9/15/2020	(o) Xylene	<0.001	ppm
9/15/2020	1,1,1-Trichloroethane	<0.001	ppm
9/15/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/15/2020	1,1,2-Trichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethene	<0.001	ppm
9/15/2020	1,2-Dichlorobenzene	<0.001	ppm
9/15/2020	1,2-Dichloroethane	<0.001	ppm
9/15/2020	1,2-Dichloropropane	<0.001	ppm
9/15/2020	1,3-Dichlorobenzene	<0.001	ppm
9/15/2020	1,4-Dichlorobenzene	<0.001	ppm
9/15/2020	2-Chloroethylvinylether	<0.001	ppm
9/15/2020	Acetone	<0.001	ppm
9/15/2020	Acrolein	<0.001	ppm
9/15/2020	Acrylonitrile	<0.001	ppm
9/15/2020	Benzene	<0.001	ppm
9/15/2020	Bromodichloromethane	<0.001	ppm
9/15/2020	Bromoform	<0.001	ppm
9/15/2020	Bromomethane	<0.002	ppm
9/15/2020	Carbon Tetrachloride	<0.001	ppm
9/15/2020	Chlorobenzene	<0.001	ppm
9/15/2020	Chloroethane	<0.001	ppm
9/15/2020	Chloroform	<0.001	ppm
9/15/2020	Chloromethane	<0.001	ppm
9/15/2020	cis-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Dibromochloromethane	<0.001	ppm
9/15/2020	Ethylbenzene	<0.001	ppm
9/15/2020	Methylene Chloride	<0.001	ppm
9/15/2020	Tetrachloroethene	<0.001	ppm
9/15/2020	Toluene	<0.001	ppm
9/15/2020	trans-1,2-Dichloroethene	<0.001	ppm
9/15/2020	trans-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Trichloroethene	<0.001	ppm
9/15/2020	Trichlorofluoromethane	<0.001	ppm
9/15/2020	Vinyl Chloride	<0.001	ppm
10/6/2020	(m & p) Xylene	<0.002	ppm
10/6/2020	(o) Xylene	<0.001	ppm
10/6/2020	1,1,1-Trichloroethane	<0.001	ppm
10/6/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/6/2020	1,1,2-Trichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethene	<0.001	ppm
10/6/2020	1,2-Dichlorobenzene	<0.001	ppm
10/6/2020	1,2-Dichloroethane	<0.001	ppm
10/6/2020	1,2-Dichloropropane	<0.001	ppm
10/6/2020	1,3-Dichlorobenzene	<0.001	ppm
10/6/2020	1,4-Dichlorobenzene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
10/6/2020	2-Chloroethylvinylether	<0.001	ppm
10/6/2020	Acetone	0.0730	ppm
10/6/2020	Acrolein	<0.001	ppm
10/6/2020	Acrylonitrile	<0.001	ppm
10/6/2020	Benzene	<0.001	ppm
10/6/2020	Bromodichloromethane	<0.001	ppm
10/6/2020	Bromoform	<0.001	ppm
10/6/2020	Bromomethane	<0.002	ppm
10/6/2020	Carbon Tetrachloride	<0.001	ppm
10/6/2020	Chlorobenzene	<0.001	ppm
10/6/2020	Chloroethane	<0.001	ppm
10/6/2020	Chloroform	0.00374	ppm
10/6/2020	Chloromethane	<0.001	ppm
10/6/2020	cis-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Dibromochloromethane	<0.001	ppm
10/6/2020	Ethylbenzene	<0.001	ppm
10/6/2020	Methylene Chloride	<0.001	ppm
10/6/2020	Tetrachloroethene	<0.001	ppm
10/6/2020	Toluene	0.00166	ppm
10/6/2020	trans-1,2-Dichloroethene	<0.001	ppm
10/6/2020	trans-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Trichloroethene	<0.001	ppm
10/6/2020	Trichlorofluoromethane	<0.001	ppm
10/6/2020	Vinyl Chloride	<0.001	ppm
11/3/2020	(m & p) Xylene	<0.002	ppm
11/3/2020	(o) Xylene	<0.001	ppm
11/3/2020	1,1,1-Trichloroethane	<0.001	ppm
11/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/3/2020	1,1,2-Trichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethene	<0.001	ppm
11/3/2020	1,2-Dichlorobenzene	<0.001	ppm
11/3/2020	1,2-Dichloroethane	<0.001	ppm
11/3/2020	1,2-Dichloropropane	<0.001	ppm
11/3/2020	1,3-Dichlorobenzene	<0.001	ppm
11/3/2020	1,4-Dichlorobenzene	<0.001	ppm
11/3/2020	2-Chloroethylvinylether	<0.001	ppm
11/3/2020	Acetone	0.0534	ppm
11/3/2020	Acrolein	<0.001	ppm
11/3/2020	Acrylonitrile	<0.001	ppm
11/3/2020	Benzene	<0.001	ppm
11/3/2020	Bromodichloromethane	<0.001	ppm
11/3/2020	Bromoform	<0.001	ppm
11/3/2020	Bromomethane	<0.002	ppm
11/3/2020	Carbon Tetrachloride	<0.001	ppm
11/3/2020	Chlorobenzene	<0.001	ppm
11/3/2020	Chloroethane	<0.001	ppm
11/3/2020	Chloroform	0.00179	ppm
11/3/2020	Chloromethane	<0.001	ppm
11/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Dibromochloromethane	<0.001	ppm
11/3/2020	Ethylbenzene	<0.001	ppm
11/3/2020	Methylene Chloride	<0.001	ppm
11/3/2020	Tetrachloroethene	<0.001	ppm
11/3/2020	Toluene	<0.001	ppm
11/3/2020	trans-1,2-Dichloroethene	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
10/6/2020	2-Chloroethylvinylether	<0.001	ppm
10/6/2020	Acetone	0.00166	ppm
10/6/2020	Acrolein	<0.001	ppm
10/6/2020	Acrylonitrile	<0.001	ppm
10/6/2020	Benzene	<0.001	ppm
10/6/2020	Bromodichloromethane	0.0144	ppm
10/6/2020	Bromoform	0.00659	ppm
10/6/2020	Bromomethane	<0.002	ppm
10/6/2020	Carbon Tetrachloride	<0.001	ppm
10/6/2020	Chlorobenzene	<0.001	ppm
10/6/2020	Chloroethane	<0.001	ppm
10/6/2020	Chloroform	0.00702	ppm
10/6/2020	Chloromethane	<0.001	ppm
10/6/2020	cis-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Dibromochloromethane	0.0196	ppm
10/6/2020	Ethylbenzene	<0.001	ppm
10/6/2020	Methylene Chloride	<0.001	ppm
10/6/2020	Tetrachloroethene	<0.001	ppm
10/6/2020	Toluene	<0.001	ppm
10/6/2020	trans-1,2-Dichloroethene	<0.001	ppm
10/6/2020	trans-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Trichloroethene	<0.001	ppm
10/6/2020	Trichlorofluoromethane	<0.001	ppm
10/6/2020	Vinyl Chloride	<0.001	ppm
11/3/2020	(m & p) Xylene	<0.002	ppm
11/3/2020	(o) Xylene	<0.001	ppm
11/3/2020	1,1,1-Trichloroethane	<0.001	ppm
11/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/3/2020	1,1,2-Trichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethene	<0.001	ppm
11/3/2020	1,2-Dichlorobenzene	<0.001	ppm
11/3/2020	1,2-Dichloroethane	<0.001	ppm
11/3/2020	1,2-Dichloropropane	<0.001	ppm
11/3/2020	1,3-Dichlorobenzene	<0.001	ppm
11/3/2020	1,4-Dichlorobenzene	<0.001	ppm
11/3/2020	2-Chloroethylvinylether	<0.001	ppm
11/3/2020	Acetone	<0.001	ppm
11/3/2020	Acrolein	<0.001	ppm
11/3/2020	Acrylonitrile	<0.001	ppm
11/3/2020	Benzene	<0.001	ppm
11/3/2020	Bromodichloromethane	<0.001	ppm
11/3/2020	Bromoform	<0.001	ppm
11/3/2020	Bromomethane	<0.002	ppm
11/3/2020	Carbon Tetrachloride	<0.001	ppm
11/3/2020	Chlorobenzene	<0.001	ppm
11/3/2020	Chloroethane	<0.001	ppm
11/3/2020	Chloroform	0.00121	ppm
11/3/2020	Chloromethane	<0.001	ppm
11/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Dibromochloromethane	<0.001	ppm
11/3/2020	Ethylbenzene	<0.001	ppm
11/3/2020	Methylene Chloride	<0.001	ppm
11/3/2020	Tetrachloroethene	<0.001	ppm
11/3/2020	Toluene	<0.001	ppm
11/3/2020	trans-1,2-Dichloroethene	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Field's Point 2020**

Field's Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
11/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Trichloroethene	<0.001	ppm
11/3/2020	Trichlorofluoromethane	<0.001	ppm
11/3/2020	Vinyl Chloride	<0.001	ppm
12/8/2020	(m & p) Xylene	<0.002	ppm
12/8/2020	(o) Xylene	<0.001	ppm
12/8/2020	1,1,1-Trichloroethane	<0.001	ppm
12/8/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/8/2020	1,1,2-Trichloroethane	<0.001	ppm
12/8/2020	1,1-Dichloroethane	<0.001	ppm
12/8/2020	1,1-Dichloroethene	<0.001	ppm
12/8/2020	1,2-Dichlorobenzene	<0.001	ppm
12/8/2020	1,2-Dichloroethane	<0.001	ppm
12/8/2020	1,2-Dichloropropane	<0.001	ppm
12/8/2020	1,3-Dichlorobenzene	<0.001	ppm
12/8/2020	1,4-Dichlorobenzene	<0.001	ppm
12/8/2020	2-Chloroethylvinylether	<0.001	ppm
12/8/2020	Acetone	0.146	ppm
12/8/2020	Acrolein	<0.001	ppm
12/8/2020	Acrylonitrile	<0.001	ppm
12/8/2020	Benzene	<0.001	ppm
12/8/2020	Bromodichloromethane	<0.001	ppm
12/8/2020	Bromoform	<0.001	ppm
12/8/2020	Bromomethane	<0.002	ppm
12/8/2020	Carbon Tetrachloride	<0.001	ppm
12/8/2020	Chlorobenzene	<0.001	ppm
12/8/2020	Chloroethane	<0.001	ppm
12/8/2020	Chloroform	0.00148	ppm
12/8/2020	Chloromethane	<0.001	ppm
12/8/2020	cis-1,3-Dichloropropene	<0.001	ppm
12/8/2020	Dibromochloromethane	<0.001	ppm
12/8/2020	Ethylbenzene	<0.001	ppm
12/8/2020	Methylene Chloride	0.00185	ppm
12/8/2020	Tetrachloroethene	<0.001	ppm
12/8/2020	Toluene	<0.001	ppm
12/8/2020	trans-1,2-Dichloroethene	<0.001	ppm
12/8/2020	trans-1,3-Dichloropropene	<0.001	ppm
12/8/2020	Trichloroethene	<0.001	ppm
12/8/2020	Trichlorofluoromethane	<0.001	ppm
12/8/2020	Vinyl Chloride	<0.001	ppm

Field's Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
11/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Trichloroethene	<0.001	ppm
11/3/2020	Trichlorofluoromethane	<0.001	ppm
11/3/2020	Vinyl Chloride	<0.001	ppm
12/8/2020	(m & p) Xylene	<0.002	ppm
12/8/2020	(o) Xylene	<0.001	ppm
12/8/2020	1,1,1-Trichloroethane	<0.001	ppm
12/8/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
12/8/2020	1,1,2-Trichloroethane	<0.001	ppm
12/8/2020	1,1-Dichloroethane	<0.001	ppm
12/8/2020	1,1-Dichloroethene	<0.001	ppm
12/8/2020	1,2-Dichlorobenzene	<0.001	ppm
12/8/2020	1,2-Dichloroethane	<0.001	ppm
12/8/2020	1,2-Dichloropropane	0.00156	ppm
12/8/2020	1,3-Dichlorobenzene	<0.001	ppm
12/8/2020	1,4-Dichlorobenzene	<0.001	ppm
12/8/2020	2-Chloroethylvinylether	<0.001	ppm
12/8/2020	Acetone	0.00165	ppm
12/8/2020	Acrolein	0.00123	ppm
12/8/2020	Acrylonitrile	<0.001	ppm
12/8/2020	Benzene	<0.001	ppm
12/8/2020	Bromodichloromethane	<0.001	ppm
12/8/2020	Bromoform	<0.001	ppm
12/8/2020	Bromomethane	<0.002	ppm
12/8/2020	Carbon Tetrachloride	<0.001	ppm
12/8/2020	Chlorobenzene	<0.001	ppm
12/8/2020	Chloroethane	<0.001	ppm
12/8/2020	Chloroform	<0.001	ppm
12/8/2020	Chloromethane	<0.001	ppm
12/8/2020	cis-1,3-Dichloropropene	<0.001	ppm
12/8/2020	Dibromochloromethane	<0.001	ppm
12/8/2020	Ethylbenzene	<0.001	ppm
12/8/2020	Methylene Chloride	<0.001	ppm
12/8/2020	Tetrachloroethene	<0.001	ppm
12/8/2020	Toluene	<0.001	ppm
12/8/2020	trans-1,2-Dichloroethene	<0.001	ppm
12/8/2020	trans-1,3-Dichloropropene	<0.001	ppm
12/8/2020	Trichloroethene	<0.001	ppm
12/8/2020	Trichlorofluoromethane	<0.001	ppm
12/8/2020	Vinyl Chloride	<0.001	ppm

Table 27: EPA VOC Data
Field's Point

**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
1/6/2020	(m & p) Xylene	<0.002	ppm
1/6/2020	(o) Xylene	<0.001	ppm
1/6/2020	1,1,1-Trichloroethane	<0.001	ppm
1/6/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/6/2020	1,1,2-Trichloroethane	<0.001	ppm
1/6/2020	1,1-Dichloroethane	<0.001	ppm
1/6/2020	1,1-Dichloroethene	<0.001	ppm
1/6/2020	1,2-Dichlorobenzene	<0.001	ppm
1/6/2020	1,2-Dichloroethane	<0.001	ppm
1/6/2020	1,2-Dichloropropane	<0.001	ppm
1/6/2020	1,3-Dichlorobenzene	<0.001	ppm
1/6/2020	1,4-Dichlorobenzene	<0.001	ppm
1/6/2020	2-Chloroethylvinylether	<0.001	ppm
1/6/2020	Acetone	0.0823	ppm
1/6/2020	Acrolein	<0.001	ppm
1/6/2020	Acrylonitrile	<0.001	ppm
1/6/2020	Benzene	<0.001	ppm
1/6/2020	Bromodichloromethane	<0.001	ppm
1/6/2020	Bromoform	<0.001	ppm
1/6/2020	Bromomethane	<0.002	ppm
1/6/2020	Carbon Tetrachloride	<0.001	ppm
1/6/2020	Chlorobenzene	<0.001	ppm
1/6/2020	Chloroethane	<0.001	ppm
1/6/2020	Chloroform	<0.001	ppm
1/6/2020	Chloromethane	<0.001	ppm
1/6/2020	cis-1,3-Dichloropropene	<0.001	ppm
1/6/2020	Dibromochloromethane	<0.001	ppm
1/6/2020	Ethylbenzene	<0.001	ppm
1/6/2020	Methylene Chloride	<0.001	ppm
1/6/2020	Tetrachloroethene	<0.001	ppm
1/6/2020	Toluene	<0.001	ppm
1/6/2020	trans-1,2-Dichloroethene	<0.001	ppm
1/6/2020	trans-1,3-Dichloropropene	<0.001	ppm
1/6/2020	Trichloroethene	<0.001	ppm
1/6/2020	Trichlorofluoromethane	<0.001	ppm
1/6/2020	Vinyl Chloride	<0.001	ppm
2/4/2020	(m & p) Xylene	<0.002	ppm
2/4/2020	(o) Xylene	<0.001	ppm
2/4/2020	1,1,1-Trichloroethane	<0.001	ppm
2/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2020	1,1,2-Trichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethene	<0.001	ppm
2/4/2020	1,2-Dichlorobenzene	<0.001	ppm
2/4/2020	1,2-Dichloroethane	<0.001	ppm
2/4/2020	1,2-Dichloropropane	<0.001	ppm
2/4/2020	1,3-Dichlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
1/7/2020	(m & p) Xylene	<0.002	ppm
1/7/2020	(o) Xylene	<0.001	ppm
1/7/2020	1,1,1-Trichloroethane	<0.001	ppm
1/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
1/7/2020	1,1,2-Trichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethane	<0.001	ppm
1/7/2020	1,1-Dichloroethene	<0.001	ppm
1/7/2020	1,2-Dichlorobenzene	<0.001	ppm
1/7/2020	1,2-Dichloroethane	<0.001	ppm
1/7/2020	1,2-Dichloropropane	<0.001	ppm
1/7/2020	1,3-Dichlorobenzene	<0.001	ppm
1/7/2020	1,4-Dichlorobenzene	<0.001	ppm
1/7/2020	2-Chloroethylvinylether	<0.001	ppm
1/7/2020	Acetone	<0.001	ppm
1/7/2020	Acrolein	<0.001	ppm
1/7/2020	Acrylonitrile	<0.001	ppm
1/7/2020	Benzene	<0.001	ppm
1/7/2020	Bromodichloromethane	<0.001	ppm
1/7/2020	Bromoform	<0.001	ppm
1/7/2020	Bromomethane	<0.002	ppm
1/7/2020	Carbon Tetrachloride	<0.001	ppm
1/7/2020	Chlorobenzene	<0.001	ppm
1/7/2020	Chloroethane	<0.001	ppm
1/7/2020	Chloroform	<0.001	ppm
1/7/2020	Chloromethane	<0.001	ppm
1/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Dibromochloromethane	<0.001	ppm
1/7/2020	Ethylbenzene	<0.001	ppm
1/7/2020	Methylene Chloride	<0.001	ppm
1/7/2020	Tetrachloroethene	<0.001	ppm
1/7/2020	Toluene	<0.001	ppm
1/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
1/7/2020	trans-1,3-Dichloropropene	<0.001	ppm
1/7/2020	Trichloroethene	<0.001	ppm
1/7/2020	Trichlorofluoromethane	<0.001	ppm
1/7/2020	Vinyl Chloride	<0.001	ppm
2/4/2020	(m & p) Xylene	<0.002	ppm
2/4/2020	(o) Xylene	<0.001	ppm
2/4/2020	1,1,1-Trichloroethane	<0.001	ppm
2/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
2/4/2020	1,1,2-Trichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethane	<0.001	ppm
2/4/2020	1,1-Dichloroethene	<0.001	ppm
2/4/2020	1,2-Dichlorobenzene	<0.001	ppm
2/4/2020	1,2-Dichloroethane	<0.001	ppm
2/4/2020	1,2-Dichloropropane	<0.001	ppm
2/4/2020	1,3-Dichlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2020	1,4-Dichlorobenzene	<0.001	ppm
2/4/2020	2-Chloroethylvinylether	<0.001	ppm
2/4/2020	Acetone	0.0844	ppm
2/4/2020	Acrolein	<0.001	ppm
2/4/2020	Acrylonitrile	<0.001	ppm
2/4/2020	Benzene	<0.001	ppm
2/4/2020	Bromodichloromethane	<0.001	ppm
2/4/2020	Bromoform	<0.001	ppm
2/4/2020	Bromomethane	<0.002	ppm
2/4/2020	Carbon Tetrachloride	<0.001	ppm
2/4/2020	Chlorobenzene	<0.001	ppm
2/4/2020	Chloroethane	<0.001	ppm
2/4/2020	Chloroform	0.00256	ppm
2/4/2020	Chloromethane	<0.001	ppm
2/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Dibromochloromethane	<0.001	ppm
2/4/2020	Ethylbenzene	<0.001	ppm
2/4/2020	Methylene Chloride	<0.001	ppm
2/4/2020	Tetrachloroethene	0.00141	ppm
2/4/2020	Toluene	0.00564	ppm
2/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Trichloroethene	<0.001	ppm
2/4/2020	Trichlorofluoromethane	<0.001	ppm
2/4/2020	Vinyl Chloride	<0.001	ppm
3/3/2020	(m & p) Xylene	0.00313	ppm
3/3/2020	(o) Xylene	<0.001	ppm
3/3/2020	1,1,1-Trichloroethane	<0.001	ppm
3/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/3/2020	1,1,2-Trichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethene	<0.001	ppm
3/3/2020	1,2-Dichlorobenzene	<0.001	ppm
3/3/2020	1,2-Dichloroethane	<0.001	ppm
3/3/2020	1,2-Dichloropropane	<0.001	ppm
3/3/2020	1,3-Dichlorobenzene	<0.001	ppm
3/3/2020	1,4-Dichlorobenzene	<0.001	ppm
3/3/2020	2-Chloroethylvinylether	<0.001	ppm
3/3/2020	Acetone	0.123	ppm
3/3/2020	Acrolein	<0.001	ppm
3/3/2020	Acrylonitrile	<0.001	ppm
3/3/2020	Benzene	<0.001	ppm
3/3/2020	Bromodichloromethane	<0.001	ppm
3/3/2020	Bromoform	<0.001	ppm
3/3/2020	Bromomethane	<0.002	ppm
3/3/2020	Carbon Tetrachloride	<0.001	ppm
3/3/2020	Chlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
2/4/2020	1,4-Dichlorobenzene	<0.001	ppm
2/4/2020	2-Chloroethylvinylether	<0.001	ppm
2/4/2020	Acetone	0.00236	ppm
2/4/2020	Acrolein	<0.001	ppm
2/4/2020	Acrylonitrile	<0.001	ppm
2/4/2020	Benzene	<0.001	ppm
2/4/2020	Bromodichloromethane	<0.001	ppm
2/4/2020	Bromoform	<0.001	ppm
2/4/2020	Bromomethane	<0.002	ppm
2/4/2020	Carbon Tetrachloride	<0.001	ppm
2/4/2020	Chlorobenzene	<0.001	ppm
2/4/2020	Chloroethane	<0.001	ppm
2/4/2020	Chloroform	<0.001	ppm
2/4/2020	Chloromethane	<0.001	ppm
2/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Dibromochloromethane	<0.001	ppm
2/4/2020	Ethylbenzene	<0.001	ppm
2/4/2020	Methylene Chloride	<0.001	ppm
2/4/2020	Tetrachloroethene	<0.001	ppm
2/4/2020	Toluene	<0.001	ppm
2/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
2/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
2/4/2020	Trichloroethene	<0.001	ppm
2/4/2020	Trichlorofluoromethane	<0.001	ppm
2/4/2020	Vinyl Chloride	<0.001	ppm
3/3/2020	(m & p) Xylene	<0.002	ppm
3/3/2020	(o) Xylene	<0.001	ppm
3/3/2020	1,1,1-Trichloroethane	<0.001	ppm
3/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
3/3/2020	1,1,2-Trichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethane	<0.001	ppm
3/3/2020	1,1-Dichloroethene	<0.001	ppm
3/3/2020	1,2-Dichlorobenzene	<0.001	ppm
3/3/2020	1,2-Dichloroethane	<0.001	ppm
3/3/2020	1,2-Dichloropropane	<0.001	ppm
3/3/2020	1,3-Dichlorobenzene	<0.001	ppm
3/3/2020	1,4-Dichlorobenzene	<0.001	ppm
3/3/2020	2-Chloroethylvinylether	<0.001	ppm
3/3/2020	Acetone	0.00145	ppm
3/3/2020	Acrolein	<0.001	ppm
3/3/2020	Acrylonitrile	<0.001	ppm
3/3/2020	Benzene	<0.001	ppm
3/3/2020	Bromodichloromethane	<0.001	ppm
3/3/2020	Bromoform	<0.001	ppm
3/3/2020	Bromomethane	<0.002	ppm
3/3/2020	Carbon Tetrachloride	<0.001	ppm
3/3/2020	Chlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
3/3/2020	Chloroethane	<0.001	ppm
3/3/2020	Chloroform	0.00278	ppm
3/3/2020	Chloromethane	<0.001	ppm
3/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Dibromochloromethane	<0.001	ppm
3/3/2020	Ethylbenzene	<0.001	ppm
3/3/2020	Methylene Chloride	<0.001	ppm
3/3/2020	Tetrachloroethene	0.00156	ppm
3/3/2020	Toluene	0.0114	ppm
3/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
3/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Trichloroethene	<0.001	ppm
3/3/2020	Trichlorofluoromethane	<0.001	ppm
3/3/2020	Vinyl Chloride	<0.001	ppm
4/7/2020	(m & p) Xylene	<0.002	ppm
4/7/2020	(o) Xylene	<0.001	ppm
4/7/2020	1,1,1-Trichloroethane	<0.001	ppm
4/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
4/7/2020	1,1,2-Trichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethene	<0.001	ppm
4/7/2020	1,2-Dichlorobenzene	<0.001	ppm
4/7/2020	1,2-Dichloroethane	<0.001	ppm
4/7/2020	1,2-Dichloropropane	<0.001	ppm
4/7/2020	1,3-Dichlorobenzene	<0.001	ppm
4/7/2020	1,4-Dichlorobenzene	<0.001	ppm
4/7/2020	2-Chloroethylvinylether	<0.001	ppm
4/7/2020	Acetone	0.0799	ppm
4/7/2020	Acrolein	<0.001	ppm
4/7/2020	Acrylonitrile	<0.001	ppm
4/7/2020	Benzene	<0.001	ppm
4/7/2020	Bromodichloromethane	<0.001	ppm
4/7/2020	Bromoform	<0.001	ppm
4/7/2020	Bromomethane	<0.002	ppm
4/7/2020	Carbon Tetrachloride	<0.001	ppm
4/7/2020	Chlorobenzene	<0.001	ppm
4/7/2020	Chloroethane	<0.001	ppm
4/7/2020	Chloroform	0.00178	ppm
4/7/2020	Chloromethane	<0.001	ppm
4/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Dibromochloromethane	<0.001	ppm
4/7/2020	Ethylbenzene	<0.001	ppm
4/7/2020	Methylene Chloride	<0.001	ppm
4/7/2020	Tetrachloroethene	0.00154	ppm
4/7/2020	Toluene	0.00219	ppm
4/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
4/7/2020	trans-1,3-Dichloropropene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
3/3/2020	Chloroethane	<0.001	ppm
3/3/2020	Chloroform	<0.001	ppm
3/3/2020	Chloromethane	<0.001	ppm
3/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Dibromochloromethane	<0.001	ppm
3/3/2020	Ethylbenzene	<0.001	ppm
3/3/2020	Methylene Chloride	<0.001	ppm
3/3/2020	Tetrachloroethene	<0.001	ppm
3/3/2020	Toluene	<0.001	ppm
3/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
3/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
3/3/2020	Trichloroethene	<0.001	ppm
3/3/2020	Trichlorofluoromethane	<0.001	ppm
3/3/2020	Vinyl Chloride	<0.001	ppm
4/7/2020	(m & p) Xylene	<0.002	ppm
4/7/2020	(o) Xylene	<0.001	ppm
4/7/2020	1,1,1-Trichloroethane	<0.001	ppm
4/7/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
4/7/2020	1,1,2-Trichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethane	<0.001	ppm
4/7/2020	1,1-Dichloroethene	<0.001	ppm
4/7/2020	1,2-Dichlorobenzene	<0.001	ppm
4/7/2020	1,2-Dichloroethane	<0.001	ppm
4/7/2020	1,2-Dichloropropane	<0.001	ppm
4/7/2020	1,3-Dichlorobenzene	<0.001	ppm
4/7/2020	1,4-Dichlorobenzene	<0.001	ppm
4/7/2020	2-Chloroethylvinylether	<0.001	ppm
4/7/2020	Acetone	0.00117	ppm
4/7/2020	Acrolein	<0.001	ppm
4/7/2020	Acrylonitrile	<0.001	ppm
4/7/2020	Benzene	<0.001	ppm
4/7/2020	Bromodichloromethane	<0.001	ppm
4/7/2020	Bromoform	<0.001	ppm
4/7/2020	Bromomethane	<0.002	ppm
4/7/2020	Carbon Tetrachloride	<0.001	ppm
4/7/2020	Chlorobenzene	<0.001	ppm
4/7/2020	Chloroethane	<0.001	ppm
4/7/2020	Chloroform	<0.001	ppm
4/7/2020	Chloromethane	<0.001	ppm
4/7/2020	cis-1,3-Dichloropropene	<0.001	ppm
4/7/2020	Dibromochloromethane	<0.001	ppm
4/7/2020	Ethylbenzene	<0.001	ppm
4/7/2020	Methylene Chloride	<0.001	ppm
4/7/2020	Tetrachloroethene	<0.001	ppm
4/7/2020	Toluene	<0.001	ppm
4/7/2020	trans-1,2-Dichloroethene	<0.001	ppm
4/7/2020	trans-1,3-Dichloropropene	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
4/7/2020	Trichloroethene	<0.001	ppm
4/7/2020	Trichlorofluoromethane	<0.001	ppm
4/7/2020	Vinyl Chloride	<0.001	ppm
5/5/2020	(m & p) Xylene	<0.002	ppm
5/5/2020	(o) Xylene	<0.001	ppm
5/5/2020	1,1,1-Trichloroethane	<0.001	ppm
5/5/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/5/2020	1,1,2-Trichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethene	<0.001	ppm
5/5/2020	1,2-Dichlorobenzene	<0.001	ppm
5/5/2020	1,2-Dichloroethane	<0.001	ppm
5/5/2020	1,2-Dichloropropane	<0.001	ppm
5/5/2020	1,3-Dichlorobenzene	<0.001	ppm
5/5/2020	1,4-Dichlorobenzene	<0.001	ppm
5/5/2020	2-Chloroethylvinylether	<0.001	ppm
5/5/2020	Acetone	0.176	ppm
5/5/2020	Acrolein	<0.001	ppm
5/5/2020	Acrylonitrile	<0.001	ppm
5/5/2020	Benzene	<0.001	ppm
5/5/2020	Bromodichloromethane	<0.001	ppm
5/5/2020	Bromoform	<0.001	ppm
5/5/2020	Bromomethane	<0.002	ppm
5/5/2020	Carbon Tetrachloride	<0.001	ppm
5/5/2020	Chlorobenzene	<0.001	ppm
5/5/2020	Chloroethane	<0.001	ppm
5/5/2020	Chloroform	0.00237	ppm
5/5/2020	Chloromethane	<0.001	ppm
5/5/2020	cis-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Dibromochloromethane	<0.001	ppm
5/5/2020	Ethylbenzene	<0.001	ppm
5/5/2020	Methylene Chloride	<0.001	ppm
5/5/2020	Tetrachloroethene	0.00113	ppm
5/5/2020	Toluene	0.00829	ppm
5/5/2020	trans-1,2-Dichloroethene	<0.001	ppm
5/5/2020	trans-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Trichloroethene	<0.001	ppm
5/5/2020	Trichlorofluoromethane	<0.001	ppm
5/5/2020	Vinyl Chloride	<0.001	ppm
6/2/2020	(m & p) Xylene	<0.002	ppm
6/2/2020	(o) Xylene	<0.001	ppm
6/2/2020	1,1,1-Trichloroethane	<0.001	ppm
6/2/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/2/2020	1,1,2-Trichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethene	<0.001	ppm
6/2/2020	1,2-Dichlorobenzene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
4/7/2020	Trichloroethene	<0.001	ppm
4/7/2020	Trichlorofluoromethane	<0.001	ppm
4/7/2020	Vinyl Chloride	<0.001	ppm
5/5/2020	(m & p) Xylene	<0.002	ppm
5/5/2020	(o) Xylene	<0.001	ppm
5/5/2020	1,1,1-Trichloroethane	<0.001	ppm
5/5/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
5/5/2020	1,1,2-Trichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethane	<0.001	ppm
5/5/2020	1,1-Dichloroethene	<0.001	ppm
5/5/2020	1,2-Dichlorobenzene	<0.001	ppm
5/5/2020	1,2-Dichloroethane	<0.001	ppm
5/5/2020	1,2-Dichloropropane	<0.001	ppm
5/5/2020	1,3-Dichlorobenzene	<0.001	ppm
5/5/2020	1,4-Dichlorobenzene	<0.001	ppm
5/5/2020	2-Chloroethylvinylether	<0.001	ppm
5/5/2020	Acetone	0.00160	ppm
5/5/2020	Acrolein	<0.001	ppm
5/5/2020	Acrylonitrile	<0.001	ppm
5/5/2020	Benzene	<0.001	ppm
5/5/2020	Bromodichloromethane	<0.001	ppm
5/5/2020	Bromoform	<0.001	ppm
5/5/2020	Bromomethane	<0.002	ppm
5/5/2020	Carbon Tetrachloride	<0.001	ppm
5/5/2020	Chlorobenzene	<0.001	ppm
5/5/2020	Chloroethane	<0.001	ppm
5/5/2020	Chloroform	<0.001	ppm
5/5/2020	Chloromethane	<0.001	ppm
5/5/2020	cis-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Dibromochloromethane	<0.001	ppm
5/5/2020	Ethylbenzene	<0.001	ppm
5/5/2020	Methylene Chloride	<0.001	ppm
5/5/2020	Tetrachloroethene	<0.001	ppm
5/5/2020	Toluene	<0.001	ppm
5/5/2020	trans-1,2-Dichloroethene	<0.001	ppm
5/5/2020	trans-1,3-Dichloropropene	<0.001	ppm
5/5/2020	Trichloroethene	<0.001	ppm
5/5/2020	Trichlorofluoromethane	<0.001	ppm
5/5/2020	Vinyl Chloride	<0.001	ppm
6/2/2020	(m & p) Xylene	<0.002	ppm
6/2/2020	(o) Xylene	<0.001	ppm
6/2/2020	1,1,1-Trichloroethane	<0.001	ppm
6/2/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
6/2/2020	1,1,2-Trichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethane	<0.001	ppm
6/2/2020	1,1-Dichloroethene	<0.001	ppm
6/2/2020	1,2-Dichlorobenzene	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
6/2/2020	1,2-Dichloroethane	<0.001	ppm
6/2/2020	1,2-Dichloropropane	<0.001	ppm
6/2/2020	1,3-Dichlorobenzene	<0.001	ppm
6/2/2020	1,4-Dichlorobenzene	<0.001	ppm
6/2/2020	2-Chloroethylvinylether	<0.001	ppm
6/2/2020	Acetone	0.0901	ppm
6/2/2020	Acrolein	<0.001	ppm
6/2/2020	Acrylonitrile	<0.001	ppm
6/2/2020	Benzene	<0.001	ppm
6/2/2020	Bromodichloromethane	<0.001	ppm
6/2/2020	Bromoform	<0.001	ppm
6/2/2020	Bromomethane	<0.002	ppm
6/2/2020	Carbon Tetrachloride	<0.001	ppm
6/2/2020	Chlorobenzene	<0.001	ppm
6/2/2020	Chloroethane	<0.001	ppm
6/2/2020	Chloroform	0.00186	ppm
6/2/2020	Chloromethane	<0.001	ppm
6/2/2020	cis-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Dibromochloromethane	<0.001	ppm
6/2/2020	Ethylbenzene	<0.001	ppm
6/2/2020	Methylene Chloride	<0.001	ppm
6/2/2020	Tetrachloroethene	0.00104	ppm
6/2/2020	Toluene	0.00239	ppm
6/2/2020	trans-1,2-Dichloroethene	<0.001	ppm
6/2/2020	trans-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Trichloroethene	<0.001	ppm
6/2/2020	Trichlorofluoromethane	<0.001	ppm
6/2/2020	Vinyl Chloride	<0.001	ppm
7/6/2020	(m & p) Xylene	0.0613	ppm
7/6/2020	(o) Xylene	<0.0025	ppm
7/6/2020	1,1,1-Trichloroethane	<0.0025	ppm
7/6/2020	1,1,2,2-Tetrachloroethane	<0.0025	ppm
7/6/2020	1,1,2-Trichloroethane	<0.0025	ppm
7/6/2020	1,1-Dichloroethane	<0.0025	ppm
7/6/2020	1,1-Dichloroethene	<0.0025	ppm
7/6/2020	1,2-Dichlorobenzene	<0.0025	ppm
7/6/2020	1,2-Dichloroethane	<0.0025	ppm
7/6/2020	1,2-Dichloropropane	<0.0025	ppm
7/6/2020	1,3-Dichlorobenzene	<0.0025	ppm
7/6/2020	1,4-Dichlorobenzene	<0.0025	ppm
7/6/2020	2-Chloroethylvinylether	<0.0025	ppm
7/6/2020	Acetone	<0.010	ppm
7/6/2020	Acrolein	<0.010	ppm
7/6/2020	Acrylonitrile	<0.010	ppm
7/6/2020	Benzene	.00645	ppm
7/6/2020	Bromodichloromethane	<0.0025	ppm
7/6/2020	Bromoform	<0.0025	ppm
7/6/2020	Bromomethane	<0.010	ppm
7/6/2020	Carbon Tetrachloride	<0.0025	ppm
7/6/2020	Chlorobenzene	<0.0025	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
6/2/2020	1,2-Dichloroethane	<0.001	ppm
6/2/2020	1,2-Dichloropropane	<0.001	ppm
6/2/2020	1,3-Dichlorobenzene	<0.001	ppm
6/2/2020	1,4-Dichlorobenzene	<0.001	ppm
6/2/2020	2-Chloroethylvinylether	<0.001	ppm
6/2/2020	Acetone	0.00445	ppm
6/2/2020	Acrolein	<0.001	ppm
6/2/2020	Acrylonitrile	<0.001	ppm
6/2/2020	Benzene	<0.001	ppm
6/2/2020	Bromodichloromethane	<0.001	ppm
6/2/2020	Bromoform	<0.001	ppm
6/2/2020	Bromomethane	<0.002	ppm
6/2/2020	Carbon Tetrachloride	<0.001	ppm
6/2/2020	Chlorobenzene	<0.001	ppm
6/2/2020	Chloroethane	<0.001	ppm
6/2/2020	Chloroform	<0.001	ppm
6/2/2020	Chloromethane	<0.001	ppm
6/2/2020	cis-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Dibromochloromethane	<0.001	ppm
6/2/2020	Ethylbenzene	<0.001	ppm
6/2/2020	Methylene Chloride	<0.001	ppm
6/2/2020	Tetrachloroethene	<0.001	ppm
6/2/2020	Toluene	<0.001	ppm
6/2/2020	trans-1,2-Dichloroethene	<0.001	ppm
6/2/2020	trans-1,3-Dichloropropene	<0.001	ppm
6/2/2020	Trichloroethene	<0.001	ppm
6/2/2020	Trichlorofluoromethane	<0.001	ppm
6/2/2020	Vinyl Chloride	<0.001	ppm
7/7/2020	(m & p) Xylene	< .0025	ppm
7/7/2020	(o) Xylene	< .0025	ppm
7/7/2020	1,1,1-Trichloroethane	< .0025	ppm
7/7/2020	1,1,2,2-Tetrachloroethane	< .0025	ppm
7/7/2020	1,1,2-Trichloroethane	< .0025	ppm
7/7/2020	1,1-Dichloroethane	< .0025	ppm
7/7/2020	1,1-Dichloroethene	< .0025	ppm
7/7/2020	1,2-Dichlorobenzene	< .0025	ppm
7/7/2020	1,2-Dichloroethane	< .0025	ppm
7/7/2020	1,2-Dichloropropane	< .0025	ppm
7/7/2020	1,3-Dichlorobenzene	< .0025	ppm
7/7/2020	1,4-Dichlorobenzene	< .0025	ppm
7/7/2020	2-Chloroethylvinylether	< .0025	ppm
7/7/2020	Acetone	<0.025	ppm
7/7/2020	Acrolein	<0.010	ppm
7/7/2020	Acrylonitrile	<0.010	ppm
7/7/2020	Benzene	< .0025	ppm
7/7/2020	Bromodichloromethane	< .0025	ppm
7/7/2020	Bromoform	< .0025	ppm
7/7/2020	Bromomethane	<0.010	ppm
7/7/2020	Carbon Tetrachloride	< .0025	ppm
7/7/2020	Chlorobenzene	< .0025	ppm

Table 28: EPA VOC Data
Bucklin Point

**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
7/6/2020	Chloroethane	<0.010	ppm
7/6/2020	Chloroform	<0.0025	ppm
7/6/2020	Chloromethane	<0.010	ppm
7/6/2020	cis-1,3-Dichloropropene	<0.0025	ppm
7/6/2020	Dibromochloromethane	<0.0025	ppm
7/6/2020	Ethylbenzene	0.0114	ppm
7/6/2020	Methylene Chloride	<0.005	ppm
7/6/2020	Tetrachloroethene	<0.0025	ppm
7/6/2020	Toluene	0.0654	ppm
7/6/2020	trans-1,2-Dichloroethene	<0.0025	ppm
7/6/2020	trans-1,3-Dichloropropene	<0.0025	ppm
7/6/2020	Trichloroethene	<0.0025	ppm
7/6/2020	Trichlorofluoromethane	<0.0025	ppm
7/6/2020	Vinyl Chloride	<0.0025	ppm
8/4/2020	(m & p) Xylene	<0.002	ppm
8/4/2020	(o) Xylene	<0.001	ppm
8/4/2020	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethene	<0.001	ppm
8/4/2020	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	1,2-Dichloroethane	<0.001	ppm
8/4/2020	1,2-Dichloropropane	<0.001	ppm
8/4/2020	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	Acetone	0.0878	ppm
8/4/2020	Acrolein	<0.001	ppm
8/4/2020	Acrylonitrile	<0.001	ppm
8/4/2020	Benzene	<0.001	ppm
8/4/2020	Bromodichloromethane	<0.001	ppm
8/4/2020	Bromoform	<0.001	ppm
8/4/2020	Bromomethane	<0.002	ppm
8/4/2020	Carbon Tetrachloride	<0.001	ppm
8/4/2020	Chlorobenzene	<0.001	ppm
8/4/2020	Chloroethane	<0.001	ppm
8/4/2020	Chloroform	0.00210	ppm
8/4/2020	Chloromethane	<0.001	ppm
8/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Dibromochloromethane	<0.001	ppm
8/4/2020	Ethylbenzene	<0.001	ppm
8/4/2020	Methylene Chloride	<0.001	ppm
8/4/2020	Tetrachloroethene	<0.001	ppm
8/4/2020	Toluene	0.00590	ppm
8/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Trichloroethene	<0.001	ppm
8/4/2020	Trichlorofluoromethane	<0.001	ppm
8/4/2020	Vinyl Chloride	<0.001	ppm
9/15/2020	(m & p) Xylene	<0.002	ppm
9/15/2020	(o) Xylene	<0.001	ppm
9/15/2020	1,1,1-Trichloroethane	<0.001	ppm
9/15/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/15/2020	1,1,2-Trichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethane	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
7/7/2020	Chloroethane	<0.010	ppm
7/7/2020	Chloroform	<.0025	ppm
7/7/2020	Chloromethane	<0.010	ppm
7/7/2020	cis-1,3-Dichloropropene	<.0025	ppm
7/7/2020	Dibromochloromethane	<.0025	ppm
7/7/2020	Ethylbenzene	<.0025	ppm
7/7/2020	Methylene Chloride	<0.005	ppm
7/7/2020	Tetrachloroethene	<.0025	ppm
7/7/2020	Toluene	<.0025	ppm
7/7/2020	trans-1,2-Dichloroethene	<.0025	ppm
7/7/2020	trans-1,3-Dichloropropene	<.0025	ppm
7/7/2020	Trichloroethene	<.0025	ppm
7/7/2020	Trichlorofluoromethane	<.0025	ppm
7/7/2020	Vinyl Chloride	<.0025	ppm
8/4/2020	(m & p) Xylene	<0.002	ppm
8/4/2020	(o) Xylene	<0.001	ppm
8/4/2020	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethane	<0.001	ppm
8/4/2020	1,1-Dichloroethene	<0.001	ppm
8/4/2020	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	1,2-Dichloroethane	<0.001	ppm
8/4/2020	1,2-Dichloropropane	<0.001	ppm
8/4/2020	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	Acetone	0.00130	ppm
8/4/2020	Acrolein	<0.001	ppm
8/4/2020	Acrylonitrile	<0.001	ppm
8/4/2020	Benzene	<0.001	ppm
8/4/2020	Bromodichloromethane	<0.001	ppm
8/4/2020	Bromoform	<0.001	ppm
8/4/2020	Bromomethane	<0.002	ppm
8/4/2020	Carbon Tetrachloride	<0.001	ppm
8/4/2020	Chlorobenzene	<0.001	ppm
8/4/2020	Chloroethane	<0.001	ppm
8/4/2020	Chloroform	<0.001	ppm
8/4/2020	Chloromethane	<0.001	ppm
8/4/2020	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Dibromochloromethane	<0.001	ppm
8/4/2020	Ethylbenzene	<0.001	ppm
8/4/2020	Methylene Chloride	<0.001	ppm
8/4/2020	Tetrachloroethene	<0.001	ppm
8/4/2020	Toluene	<0.001	ppm
8/4/2020	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	Trichloroethene	<0.001	ppm
8/4/2020	Trichlorofluoromethane	<0.001	ppm
8/4/2020	Vinyl Chloride	<0.001	ppm
9/15/2020	(m & p) Xylene	<0.002	ppm
9/15/2020	(o) Xylene	<0.001	ppm
9/15/2020	1,1,1-Trichloroethane	<0.001	ppm
9/15/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
9/15/2020	1,1,2-Trichloroethane	<0.001	ppm
9/15/2020	1,1-Dichloroethane	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
9/15/2020	1,1-Dichloroethene	<0.001	ppm
9/15/2020	1,2-Dichlorobenzene	<0.001	ppm
9/15/2020	1,2-Dichloroethane	<0.001	ppm
9/15/2020	1,2-Dichloropropane	<0.001	ppm
9/15/2020	1,3-Dichlorobenzene	<0.001	ppm
9/15/2020	1,4-Dichlorobenzene	<0.001	ppm
9/15/2020	2-Chloroethylvinylether	<0.001	ppm
9/15/2020	Acetone	0.0835	ppm
9/15/2020	Acrolein	<0.001	ppm
9/15/2020	Acrylonitrile	<0.001	ppm
9/15/2020	Benzene	<0.001	ppm
9/15/2020	Bromodichloromethane	<0.001	ppm
9/15/2020	Bromoform	<0.001	ppm
9/15/2020	Bromomethane	<0.002	ppm
9/15/2020	Carbon Tetrachloride	<0.001	ppm
9/15/2020	Chlorobenzene	<0.001	ppm
9/15/2020	Chloroethane	<0.001	ppm
9/15/2020	Chloroform	0.00183	ppm
9/15/2020	Chloromethane	<0.001	ppm
9/15/2020	cis-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Dibromochloromethane	<0.001	ppm
9/15/2020	Ethylbenzene	<0.001	ppm
9/15/2020	Methylene Chloride	<0.001	ppm
9/15/2020	Tetrachloroethene	<0.001	ppm
9/15/2020	Toluene	0.00888	ppm
9/15/2020	trans-1,2-Dichloroethene	<0.001	ppm
9/15/2020	trans-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Trichloroethene	<0.001	ppm
9/15/2020	Trichlorofluoromethane	<0.001	ppm
9/15/2020	Vinyl Chloride	<0.001	ppm
10/6/2020	(m & p) Xylene	<0.002	ppm
10/6/2020	(o) Xylene	<0.001	ppm
10/6/2020	1,1,1-Trichloroethane	<0.001	ppm
10/6/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/6/2020	1,1,2-Trichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethene	<0.001	ppm
10/6/2020	1,2-Dichlorobenzene	<0.001	ppm
10/6/2020	1,2-Dichloroethane	<0.001	ppm
10/6/2020	1,2-Dichloropropane	<0.001	ppm
10/6/2020	1,3-Dichlorobenzene	<0.001	ppm
10/6/2020	1,4-Dichlorobenzene	<0.001	ppm
10/6/2020	2-Chloroethylvinylether	<0.001	ppm
10/6/2020	Acetone	0.141	ppm
10/6/2020	Acrolein	<0.001	ppm
10/6/2020	Acrylonitrile	<0.001	ppm
10/6/2020	Benzene	<0.001	ppm
10/6/2020	Bromodichloromethane	<0.001	ppm
10/6/2020	Bromoform	<0.001	ppm
10/6/2020	Bromomethane	<0.002	ppm
10/6/2020	Carbon Tetrachloride	<0.001	ppm
10/6/2020	Chlorobenzene	<0.001	ppm
10/6/2020	Chloroethane	<0.001	ppm
10/6/2020	Chloroform	0.00162	ppm
10/6/2020	Chloromethane	<0.001	ppm
10/6/2020	cis-1,3-Dichloropropene	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
9/15/2020	1,1-Dichloroethene	<0.001	ppm
9/15/2020	1,2-Dichlorobenzene	<0.001	ppm
9/15/2020	1,2-Dichloroethane	<0.001	ppm
9/15/2020	1,2-Dichloropropane	<0.001	ppm
9/15/2020	1,3-Dichlorobenzene	<0.001	ppm
9/15/2020	1,4-Dichlorobenzene	<0.001	ppm
9/15/2020	2-Chloroethylvinylether	<0.001	ppm
9/15/2020	Acetone	<0.001	ppm
9/15/2020	Acrolein	<0.001	ppm
9/15/2020	Acrylonitrile	<0.001	ppm
9/15/2020	Benzene	<0.001	ppm
9/15/2020	Bromodichloromethane	<0.001	ppm
9/15/2020	Bromoform	<0.001	ppm
9/15/2020	Bromomethane	<0.002	ppm
9/15/2020	Carbon Tetrachloride	<0.001	ppm
9/15/2020	Chlorobenzene	<0.001	ppm
9/15/2020	Chloroethane	<0.001	ppm
9/15/2020	Chloroform	<0.001	ppm
9/15/2020	Chloromethane	<0.001	ppm
9/15/2020	cis-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Dibromochloromethane	<0.001	ppm
9/15/2020	Ethylbenzene	<0.001	ppm
9/15/2020	Methylene Chloride	<0.001	ppm
9/15/2020	Tetrachloroethene	<0.001	ppm
9/15/2020	Toluene	<0.001	ppm
9/15/2020	trans-1,2-Dichloroethene	<0.001	ppm
9/15/2020	trans-1,3-Dichloropropene	<0.001	ppm
9/15/2020	Trichloroethene	<0.001	ppm
9/15/2020	Trichlorofluoromethane	<0.001	ppm
9/15/2020	Vinyl Chloride	<0.001	ppm
10/6/2020	(m & p) Xylene	<0.002	ppm
10/6/2020	(o) Xylene	<0.001	ppm
10/6/2020	1,1,1-Trichloroethane	<0.001	ppm
10/6/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
10/6/2020	1,1,2-Trichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethane	<0.001	ppm
10/6/2020	1,1-Dichloroethene	<0.001	ppm
10/6/2020	1,2-Dichlorobenzene	<0.001	ppm
10/6/2020	1,2-Dichloroethane	<0.001	ppm
10/6/2020	1,2-Dichloropropane	<0.001	ppm
10/6/2020	1,3-Dichlorobenzene	<0.001	ppm
10/6/2020	1,4-Dichlorobenzene	<0.001	ppm
10/6/2020	2-Chloroethylvinylether	<0.001	ppm
10/6/2020	Acetone	0.00144	ppm
10/6/2020	Acrolein	<0.001	ppm
10/6/2020	Acrylonitrile	<0.001	ppm
10/6/2020	Benzene	<0.001	ppm
10/6/2020	Bromodichloromethane	<0.001	ppm
10/6/2020	Bromoform	<0.001	ppm
10/6/2020	Bromomethane	<0.002	ppm
10/6/2020	Carbon Tetrachloride	<0.001	ppm
10/6/2020	Chlorobenzene	<0.001	ppm
10/6/2020	Chloroethane	<0.001	ppm
10/6/2020	Chloroform	<0.001	ppm
10/6/2020	Chloromethane	<0.001	ppm
10/6/2020	cis-1,3-Dichloropropene	<0.001	ppm

Table 28: EPA VOC Data
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**EPA VOC Data
Bucklin Point 2020**

Bucklin Point Influent Grab Samples			
Sample Date	Parameter	Result	Units
10/6/2020	Dibromochloromethane	<0.001	ppm
10/6/2020	Ethylbenzene	<0.001	ppm
10/6/2020	Methylene Chloride	<0.001	ppm
10/6/2020	Tetrachloroethene	0.00103	ppm
10/6/2020	Toluene	0.00294	ppm
10/6/2020	trans-1,2-Dichloroethene	<0.001	ppm
10/6/2020	trans-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Trichloroethene	<0.001	ppm
10/6/2020	Trichlorofluoromethane	<0.001	ppm
10/6/2020	Vinyl Chloride	<0.001	ppm
11/3/2020	(m & p) Xylene	<0.002	ppm
11/3/2020	(o) Xylene	<0.001	ppm
11/3/2020	1,1,1-Trichloroethane	<0.001	ppm
11/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/3/2020	1,1,2-Trichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethene	<0.001	ppm
11/3/2020	1,2-Dichlorobenzene	<0.001	ppm
11/3/2020	1,2-Dichloroethane	<0.001	ppm
11/3/2020	1,2-Dichloropropane	<0.001	ppm
11/3/2020	1,3-Dichlorobenzene	<0.001	ppm
11/3/2020	1,4-Dichlorobenzene	<0.001	ppm
11/3/2020	2-Chloroethylvinylether	<0.001	ppm
11/3/2020	Acetone	0.0815	ppm
11/3/2020	Acrolein	<0.001	ppm
11/3/2020	Acrylonitrile	<0.001	ppm
11/3/2020	Benzene	<0.001	ppm
11/3/2020	Bromodichloromethane	<0.001	ppm
11/3/2020	Bromoform	<0.001	ppm
11/3/2020	Bromomethane	<0.002	ppm
11/3/2020	Carbon Tetrachloride	<0.001	ppm
11/3/2020	Chlorobenzene	<0.001	ppm
11/3/2020	Chloroethane	<0.001	ppm
11/3/2020	Chloroform	0.00169	ppm
11/3/2020	Chloromethane	<0.001	ppm
11/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Dibromochloromethane	<0.001	ppm
11/3/2020	Ethylbenzene	<0.001	ppm
11/3/2020	Methylene Chloride	<0.001	ppm
11/3/2020	Tetrachloroethene	<0.001	ppm
11/3/2020	Toluene	0.00228	ppm
11/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
11/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Trichloroethene	<0.001	ppm
11/3/2020	Trichlorofluoromethane	<0.001	ppm
11/3/2020	Vinyl Chloride	<0.001	ppm

Bucklin Point Effluent Grab Samples			
Sample Date	Parameter	Result	Units
10/6/2020	Dibromochloromethane	<0.001	ppm
10/6/2020	Ethylbenzene	<0.001	ppm
10/6/2020	Methylene Chloride	<0.001	ppm
10/6/2020	Tetrachloroethene	<0.001	ppm
10/6/2020	Toluene	<0.001	ppm
10/6/2020	trans-1,2-Dichloroethene	<0.001	ppm
10/6/2020	trans-1,3-Dichloropropene	<0.001	ppm
10/6/2020	Trichloroethene	<0.001	ppm
10/6/2020	Trichlorofluoromethane	<0.001	ppm
10/6/2020	Vinyl Chloride	<0.001	ppm
11/3/2020	(m & p) Xylene	<0.002	ppm
11/3/2020	(o) Xylene	<0.001	ppm
11/3/2020	1,1,1-Trichloroethane	<0.001	ppm
11/3/2020	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/3/2020	1,1,2-Trichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethane	<0.001	ppm
11/3/2020	1,1-Dichloroethene	<0.001	ppm
11/3/2020	1,2-Dichlorobenzene	<0.001	ppm
11/3/2020	1,2-Dichloroethane	<0.001	ppm
11/3/2020	1,2-Dichloropropane	<0.001	ppm
11/3/2020	1,3-Dichlorobenzene	<0.001	ppm
11/3/2020	1,4-Dichlorobenzene	<0.001	ppm
11/3/2020	2-Chloroethylvinylether	<0.001	ppm
11/3/2020	Acetone	0.00110	ppm
11/3/2020	Acrolein	<0.001	ppm
11/3/2020	Acrylonitrile	<0.001	ppm
11/3/2020	Benzene	<0.001	ppm
11/3/2020	Bromodichloromethane	<0.001	ppm
11/3/2020	Bromoform	<0.001	ppm
11/3/2020	Bromomethane	<0.002	ppm
11/3/2020	Carbon Tetrachloride	<0.001	ppm
11/3/2020	Chlorobenzene	<0.001	ppm
11/3/2020	Chloroethane	<0.001	ppm
11/3/2020	Chloroform	<0.001	ppm
11/3/2020	Chloromethane	<0.001	ppm
11/3/2020	cis-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Dibromochloromethane	<0.001	ppm
11/3/2020	Ethylbenzene	<0.001	ppm
11/3/2020	Methylene Chloride	<0.001	ppm
11/3/2020	Tetrachloroethene	<0.001	ppm
11/3/2020	Toluene	<0.001	ppm
11/3/2020	trans-1,2-Dichloroethene	<0.001	ppm
11/3/2020	trans-1,3-Dichloropropene	<0.001	ppm
11/3/2020	Trichloroethene	<0.001	ppm
11/3/2020	Trichlorofluoromethane	<0.001	ppm
11/3/2020	Vinyl Chloride	<0.001	ppm

Table 28: EPA VOC Data
Bucklin Point

Sanitary Manhole Sampling Data 2020*

Date	Location	Al (ppb)	As (ppb)	BOD (ppm)	CBOD (ppm)	Cd (ppb)	Cr (ppb)	Cu (ppb)	CN (ppm)	Total Nitrogen (ppm N)	Pb (ppb)	Hg (ppt)	Mo (ppb)	NH3 (ppm N)	Ni (ppb)	NO3NO2 (ppm N)	Se (ppb)	Ag (ppb)	TKN (ppm N)	TSS (ppm)	Zn (ppb)
01/08/2020	FS43	220.1	<0.500	240.22	208.31	0.09851	2.179	23.47	<0.004	66	13.02	11.2	0.8244	36.2	2.828	<0.100	<1.000	0.1732	66	140	115.3
01/15/2020	BS05	131.5	0.7129	374.94	396.16	0.1048	1.847	31.9	<0.008	89.5	1.58	33.5	1.137	58.5	3.306	<0.100	<1.000	0.525	89.5	154	154.2
01/22/2020	FS19	395.4	0.7811	1085.67	999.94	0.4725	1.674	51.86	<0.004	140	10.13	8.72	1.598	61.6	4.492	<0.100	1.201	0.1954	140	1052	409.6
01/29/2020	BS13	194.9	0.6542	349.11	334.54	0.09527	0.8767	28.98	0.00977	85.5	1.535	24.7	0.5374	45.6	2.407	0.531	<1.000	0.09376	85	110	132.5
02/05/2020	FS14	188.8	<0.500	264.28	226.93	0.07006	0.8669	30.67	<0.004	25.6	1.799	6.64	0.4197	12.7	1.067	0.801	<1.000	0.1057	24.8	364	53.54
02/12/2020	BS26	76.88	<0.500	464.41	432.69	0.07014	0.7518	43.26	<0.004	109	2.026	11.4	0.8636	44.8	1.951	<0.100	<1.000	<0.020	109	94	64.12
02/19/2020	FS13	117	<0.500	54.77	47.54	0.09444	0.4729	3.531	<0.004	13	0.4557	3.06	<0.300	5.2	0.884	1.8	<1.000	0.02162	11.2	31.5	27.08
02/25/2020	BS17	498.4	0.5133	414.11	396.4	0.344	1.652	51.02	<0.004	44.2	4.024	11.7	1.08	23.9	2.39	<0.100	<1.000	0.2185	44.2	329	165.6
03/03/2020	FS17	176.1	<0.500	353.41	340.77	0.08166	1.175	23.41	<0.004	113	7.739	**	0.8585	37.2	2.491	<0.100	<1.000	0.02976	113	100	109.7
03/11/2020	BS03	78.71	<0.500	135.09	96.66	0.04844	0.6627	7.693	<0.004	29.4	0.5166	**	0.3688	22.5	1.539	<0.100	<1.000	0.04583	29.4	43	53.88
06/10/2020	BS04	2308	<1.000	147.04	227.78	0.7482	3.128	37.55	<0.004	154	6.393	20.8	1.348	29.5	3.483	<0.100	<2.000	0.463	154	226	230.2
06/24/2020	FS24	224.9	0.5741	582.91	422.35	0.08779	1.512	16.66	<0.004	97.5	8.054	***	0.7947	55.5	2.377	<0.100	<1.000	0.1589	97.5	676	88.69
07/08/2020	BS02	86.46	<0.500	178.89	174.32	0.1012	0.6266	67.06	<0.004	71.2	2.929	***	1.421	41.8	2.095	<0.100	<1.000	2.592	71.2	59	114.7
07/15/2020	FS42	339.8	<0.500	343.17	415.84	0.08809	2.284	15.85	<0.004	74	17.82	***	1.016	43.8	4.856	<0.100	<1.000	0.07476	74	270	193.6
07/29/2020	FS41	501.3	0.5831	524.18	492.36	0.1096	2.91	22.22	<0.008	53	10.55	18.8	0.6328	37.4	3.504	<0.100	<1.000	0.4791	53	242	142.9
09/30/2020	FS14	1142	0.7376	579.46	461.43	0.2951	3.417	144.8	<0.004	70.5	10.05	15.7	1.378	45.6	5.551	<0.100	<1.000	0.3463	70.5	440	234.2
10/07/2020	BS07	463.2	1.148	12.56	13.52	0.08189	3.222	14.44	<0.004	0.584	12.46	9.01	0.8456	<0.100	3.931	0.584	<1.000	0.07838	<1.250	48	59.52
11/04/2020	FS16	624.5	0.5253	633.57	624.33	0.4678	3.143	63.49	<0.004	****	29.62	13.3	1.577	****	5.1	****	1.254	0.3799	****	706.67	266.9
11/09/2020	BS23	139.2	0.5469	358.97	373.17	0.09742	0.5804	55.85	0.00573	****	5.984	25.4	1.245	****	2.677	****	<1.000	0.1244	****	194	119.2
11/24/2020	BS08	462.2	0.5934	280.09	261.76	0.1264	1.537	48.12	<0.004	****	7.846	21.3	0.7423	****	2.683	****	<1.000	0.3721	****	204	133.2
12/09/2020	FS25	179.3	<0.500	193.58	228.63	0.11	1.28	10.89	<0.004	****	7.368	16.4	0.7813	****	2.201	****	<1.000	0.1471	****	151	67.85

* Manhole sampling limited during 2020 due to COVID-19 pandemic response.

** Mercury analysis missed in March due to COVID-19 pandemic response staffing adjustments.

*** Mercury analysis missed in June and July due to instrumentation being out of service.

**** Nutrients analysis discontinued for Sanitary Manhole samples as of November 1, 2020.

Table 29: Sanitary Manhole Sampling Data

NBC 2020 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L
9W Halo OpCo L.P.	1	9/14/2020	C	BP											717.56	53.750	39.67	2.01	59.0	1.14	60.1	
A & F Plating Company	1	9/21/2020	C	FP	<0.015	<0.075	0.1789	<0.075	0.09854	<0.025	<0.060	<0.005		0.0224			0.110	1.05	<0.100	1.05		
A. Harrison & Company, Inc.	1	8/5/2020	C	FP								<0.005				5.415	<0.100	<0.500	<0.100	0.536		
Accent Plating Company	1	9/17/2020	C	BP	<0.015	<0.075	0.09007	<0.075	<0.050	<0.025	<0.060			<0.004			<0.100	5.34	<0.100	5.34		
Al-Jac Produce	1	9/22/2020	C	FP								0.01476			5910.55	8586.7		10.3	190	5.04	195	
Alloy Holdings, LLC	1	9/21/2020	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	1.880	<0.005					<0.100	<0.500	0.117	<0.500		
Alloy Holdings, LLC	1	10/27/2020	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060											
Armbrust International, Ltd.	1	2/11/2020	C	FP	<0.015	<0.075	0.1535	<0.075	0.3298	0.1319	0.3736	<0.005		0.0108				2.02	27.6	<0.100	27.6	
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP											3224.23			427	446	<0.100	446	
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP											39503.33	<2.0000		2130	4560	<0.100	4560	
B. Deltoro & Sons, Inc.	1	9/28/2020	C	FP								<0.005			2784.27	2288.0		7.96	222	3.59	226	
Best Engineered Surface Technologies, LLC	1	1/28/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004				0.530	9.41	0.116	9.53	
Bliss Manufacturing Co., Inc.	1	1/8/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			0.0124				8.73	43.0	<0.100	43.0	
Bliss Manufacturing Co., Inc.	1	11/12/2020	C	BP	<0.015	<0.075	0.02307	<0.075	<0.050	<0.025	0.07769			0.00987								
Chemart Company	1	1/8/2020	C	BP	<0.015	<0.075	29.22	<0.075	1.343	<0.025	0.3018			0.00877				5.08	32.2	<0.100	32.2	
Chemart Company	1	3/3/2020	C	BP	<0.015	<0.075	0.09513	<0.075	0.1051	<0.025	<0.060			0.0600				0.374	1.46	0.139	1.60	
Cintas Corporation	1	9/8/2020	C	BP	<0.015	<0.075	0.08008	<0.075	0.05508	<0.025	0.5799			0.00809	248.49	31.000	22.50	<0.100	11.9	<0.100	11.9	
Conopco, Inc.	1	9/8/2020	C	BP														0.101	<0.500	0.896	0.896	
Contract Specialties, Inc.	1	7/14/2020	C	FP	<0.015	<0.075	0.06491	<0.075	<0.050	<0.025	<0.060	<0.005		<0.004				<0.100	1.06	0.170	1.23	
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.1149				189.36	9.4000	8.837	0.149	1.44	<0.100	1.44	
DiFruscia Industries, Inc.	1	1/28/2020	C	FP	<0.015	<0.075	0.1528	<0.075	0.2752	<0.025	0.3427	<0.005		0.0315				<0.100	<0.500	2.66	2.66	
DiFruscia Industries, Inc.	1	10/19/2020	C	FP	<0.015	<0.075	0.2760	<0.075	0.09156	<0.025	0.4359			0.0172								
E&M Enterprises, LTD	1	8/17/2020	C	FP	<0.015	<0.075	0.1442	<0.075	0.1754	<0.025	<0.060	<0.005		0.0500				<0.100	<0.500	0.165	<0.500	
Eagle Laundry Inc.	1	9/24/2020	C	FP								<0.005			78.68	16.461	46.31	0.159	3.35	0.262	3.61	
Ecological Fibers, Inc.	1	1/14/2020	C	BP	<0.015	<0.075	0.03907	<0.075	0.1711	<0.025	7.518				533.48	8.6364		145	225	0.355	225	
Ecological Fibers, Inc.	1	9/22/2020	C	BP	<0.015	<0.075	<0.020	<0.075	0.09718	<0.025	2.433				612.30	6.6000		72.5	148	0.126	148	
Ecological Fibers, Inc.	1	10/22/2020	C	BP	<0.015	<0.075	<0.020	<0.075	0.07539	<0.025	0.9392				873.21	9.0425						
Electrolizing, Inc.	1	8/4/2020	C	FP	<0.015	0.2909	0.1101	<0.075	<0.050	<0.025	1.065	<0.005		<0.004				0.321	0.536	10.8	10.8	
Finlay Extracts & Ingredients USA, Inc.	1	10/14/2020	C	BP											2342.70	1406.0		0.414	44.4	0.312	44.7	
G. Tanury Plating Company	1	8/11/2020	C	FP	<0.015	<0.075	0.9936	0.1293	0.4787	<0.025	<0.060	<0.005		0.109				0.648	2.69	0.361	3.05	
General Cable Industries, LLC	1	8/19/2020	C	BP	<0.015	<0.075	0.8083	0.1146	0.4440	<0.025	0.8316				442.66	36.000	<4.000	<0.100	8.38	<0.100	8.38	
Godfrey and Wing Inc.	1	7/23/2020	C	BP	<0.015	<0.075	0.03627	<0.075	<0.050	<0.025	<0.060							<0.100	1.42	<0.100	1.42	
Hillview Auto Body	1	8/11/2020	G	FP	<0.015	<0.075	0.08789	<0.075	<0.050	<0.025	0.07159	<0.005					<4.000	<0.100	<0.500	0.110	<0.500	

Table 30A: NBC Industrial and Commercial User Data

NBC 2020 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Hord Crystal Corporation	1	2/11/2020	G	BP	<0.015	<0.075	0.9522	<0.075	<0.050	<0.025	0.1555			0.00496				5.30	31.8	16.3	48.1	
HP Services, Inc.	1	8/18/2020	G	BP	<0.015	<0.075	0.2238	<0.075	<0.050	<0.025	0.09706			0.00520			<4.000	0.109	15.6	0.214	15.8	
Ideal Plating & Polishing Co., Inc.	1	1/7/2020	C	FP	<0.015	<0.075	0.3234	<0.075	0.3744	<0.025	0.1198	<0.005		0.00926				<0.100	<0.500	0.134	<0.500	
Ideal Plating & Polishing Co., Inc.	1	10/28/2020	C	FP	0.01536	0.3115	0.3955	<0.075	0.4318	0.02848	0.1987			0.181								
Induplate, LLC	1	2/5/2020	C	FP	<0.015	<0.075	0.05228	<0.075	0.1429	<0.025	0.1421	<0.005		0.00420				0.212	<0.500	1.55	1.55	
International Chromium Plating	1	10/1/2020	C	FP	<0.015	0.2614	0.04657	<0.075	0.1335	<0.025	0.1694	<0.005		0.0548				0.901	1.27	1.05	2.32	
International Insignia Corporation	1	3/12/2020	C	FP	<0.015	<0.075	0.2632	<0.075	0.8150	<0.025	0.1232	<0.005		<0.004				0.401	2.51	0.169	2.68	
Interplex Engineered Products, Inc.	1	8/24/2020	C	BP	<0.015	<0.075	0.3759	<0.075	0.3947	<0.025	<0.060			<0.004				0.733	2.09	0.240	2.33	
Ira Green, Inc.	1	9/16/2020	C	FP	<0.015	<0.075	0.2734	<0.075	<0.050	0.03610	<0.060	<0.005		0.00696				0.131	<0.500	0.114	<0.500	
Isle Brewers Guild, LLC	1	10/20/2020	C	BP											617.82	59.600						
John H. Collins & Sons Company	1	2/13/2020	C	BP	<0.015	<0.075	0.04703	<0.075	<0.050	<0.025	0.4810			<0.008			<4.000	0.363	9.52	0.537	10.1	
John Rocchio Corporation	1	3/5/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060					<2.0000		3.39	3.43	<0.100	3.43	
John Rocchio Corporation	1	3/10/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060					7.6842		4.09	4.39	<0.100	4.39	
Lincoln Manufacturing, Inc.	1	2/11/2020	G	BP													39.66	3.85	247	0.130	247	
Mahr Federal Inc.	1	1/22/2020	C	FP	<0.015	0.1683	0.03250	<0.075	<0.050	<0.025	<0.060	<0.005		<0.004				<0.100	<0.500	0.101	<0.500	
Mahr Federal Inc.	1	11/17/2020	C	FP	<0.015	0.4818	0.06265	<0.075	<0.050	<0.025	<0.060			<0.004								
Manchester Street, LLC	1	8/27/2020	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005						0.692	1.08	0.153	1.23	
Materion Technical Materials, Inc.	1	1/7/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	0.1335			<0.004				0.359	6.57	0.692	7.26	
Metallurgical Solutions, Inc.	1	7/23/2020	G	FP	<0.015	0.4871	0.1419	<0.075	0.7542	<0.025	<0.060	0.007616		0.0119				1.47	<2.500	420	420	
Monarch Metal Finishing Co., Inc. - Georgia Ave	1	8/6/2020	C	FP	<0.015	0.2569	0.6501	0.08754	1.428	<0.025	0.5268	0.005187		<0.004				10.5	15.6	0.874	16.5	
Murdock Webbing Co., Inc.	1	2/3/2020	C	BP	<0.015	<0.075	0.02357	<0.075	<0.050	<0.025	0.08379				864.03	404.00	124.6	4.44	61.0	0.829	61.8	
Narragansett Jewelry	1	8/31/2020	C	FP	<0.015	<0.075	0.05925	<0.075	<0.050	<0.025	<0.060	<0.005		0.00513				<0.100	<0.500	0.169	<0.500	
NGC Inc.	1	9/30/2020	C	FP								0.01497			1444.19	46.667	5.016	4.72	133	0.229	133	
Ocean State Peeled Potatoes	1	9/22/2020	C	FP								<0.005			80.51	120.00		0.495	15.9	0.223	16.1	
The Okonite Company	1	9/1/2020	C	BP	<0.015	<0.075	0.4009	<0.075	<0.050	<0.025	0.2733				194.62		<4.000	<0.100	3.68	1.10	4.78	
Orbit Energy Rhode Island, LLC	1	8/3/2020	C	FP								0.005305			87.24	10.000	4.590	3.12	18.7	0.412	19.1	
Orbit Energy Rhode Island, LLC	1	10/14/2020	C	FP											42.21	<2.0000		2.66	16.4	1.13	17.5	
Organic Dyes and Pigments, LLC - Lincoln	1	2/5/2020	G	BP	<0.015	<0.075	0.05672	<0.075	<0.050	<0.025	0.6163				749.67	29.500	6.282	4.19	31.2	0.308	31.5	
Pawtucket Power Associates	2	1/6/2020	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060							0.303	0.861	4.46	5.32	
Pawtucket Power Associates	3	1/6/2020	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060							<0.100	<0.500	0.982	0.982	

Table 30A: NBC Industrial and Commercial User Data

NBC 2020 Industrial and Commercial User Sample Results

User Name	Location	Sample Date	Type (Grab or Composite)	District	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Hg	CN	BOD	TSS	Oil and Grease	Ammonia	Total Kjeldahl Nitrogen	NO3NO2	Total Nitrogen	Total Residual Chlorine
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ng/L	ppm	mg/L	mg/L	mg/L	mg/L
Pawtucket Power Associates	2	7/16/2020	G	BP	<0.015	<0.075	0.02895	<0.075	<0.050	<0.025	0.1795							2.08	4.00	4.15	8.15	
Pawtucket Power Associates	3	7/16/2020	G	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060							<0.100	<0.500	0.193	<0.500	
Pawtucket Power Associates	1	7/20/2020	C	BP	<0.015	<0.075	0.04754	<0.075	<0.050	<0.025	0.08483						<4.000	0.881	2.28	0.391	2.67	
Pawtucket Power Associates	4	7/20/2020	C	BP	<0.015	<0.075	0.1118	<0.075	<0.050	<0.025	0.2274							<0.100	4.39	0.903	5.29	
Pawtucket Power Associates	1	12/9/2020	C	BP	<0.015	<0.075	0.06339	<0.075	<0.050	<0.025	<0.060						<4.000					
Providence Journal Co.	1	9/9/2020	C	FP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060	<0.005					346.1	3.59	43.5	<0.100	43.5	
Providence Metallizing Company, Inc.	1	8/18/2020	C	BP	<0.015	0.2451	0.1636	<0.075	0.2351	<0.025	<0.060			<0.004				<0.100	<0.500	0.439	<0.500	
Providence Specialty Products	1	2/5/2020	G	FP											78.18	15.833	16.59	<0.100	0.941	<0.100	0.941	
Providence Specialty Products	1	10/6/2020	G	FP											12.79	<2.0000	<4.000	<0.100	0.727	0.104	0.831	
Providence Specialty Products	2	10/6/2020	C	FP											24743.29	708.00	233.7	55.4	330	<0.100	330	
RI Resource Recovery	1	7/8/2020	C	FP	<0.015	0.08764	<0.020	<0.075	0.05968	<0.025	<0.060	0.1551		0.0208	65.32	119.00	<4.000	0.927	33.0	4.15	37.1	
RI Resource Recovery	4	7/8/2020	G	FP														1.47	94.5	5.51	100	
RI Resource Recovery	1	10/19/2020	C	FP	<0.015	0.1004	<0.020	<0.075	0.07050	<0.025	<0.060	0.1884	3.22	0.0270	20.80	33.000	<4.000	0.308	24.5	2.75	27.2	
RI Resource Recovery	4	10/19/2020	G	FP														0.267	25.7	9.33	35.0	
Stackbin Corporation	1	9/17/2020	G	BP	<0.015	<0.075	0.1271	<0.075	<0.050	<0.025	0.2651			0.0183			77.64	<0.100	25.2	<0.100	25.2	
Stackbin Corporation	2	9/17/2020	G	BP	<0.015	<0.075	0.02115	<0.075	<0.050	<0.025	<0.060			0.0121				0.258	4.98	8.86	13.8	
Summit Manufacturing Corporation	1	2/24/2020	C	BP	<0.015	<0.075	0.3826	<0.075	<0.050	<0.025	<0.060			<0.004								
Surface Coatings Division, MFB LLC	1	1/14/2020	C	FP	<0.015	<0.075	0.04405	<0.075	0.07058	<0.025	0.3404	<0.005		<0.004				0.202	<0.500	1.42	1.42	
Surface Coatings Division, MFB LLC	1	11/5/2020	C	FP	<0.015	0.2017	0.3011	<0.075	0.1543	<0.025	0.3983			0.00728								
Tanury Industries	1	2/20/2020	C	BP	<0.015	1.198	1.097	<0.075	0.9976	0.3196	<0.060			0.366				3.01	5.96	1.70	7.66	
Technodic, Inc.	1	8/20/2020	C	FP	<0.015	0.1402	0.05959	<0.075	<0.050	<0.025	<0.060	<0.005		0.00678				<0.100	<0.500	2.92	2.92	
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.015	<0.075	0.05412	<0.075	<0.050	<0.025	0.2323				123.03	19.000	6.071	3.38	9.89	<0.100	9.89	
Teknor Apex	1	7/28/2020	C	BP	<0.015	<0.075	0.03118	<0.075	<0.050	<0.025	0.5518						<4.000	<0.100	<0.500	0.271	<0.500	
Tiffany and Company	1	8/27/2020	C	BP	<0.015	<0.075	<0.020	<0.075	<0.050	<0.025	<0.060			<0.004				1.18	3.08	3.58	6.66	
Tri-Jay Company	1	9/15/2020	C	FP	<0.015	<0.075	0.7799	0.1134	1.014	0.1216	0.2601	<0.005		0.0428				<0.100	0.676	0.990	1.67	
Truex, Inc.	1	7/21/2020	C	BP	<0.015	<0.075	0.1344	<0.075	<0.050	<0.025	0.07964			<0.004			<4.000	<0.100	1.46	<0.100	1.46	
Unique Plating Company	1	1/9/2020	C	FP	<0.015	<0.075	0.08378	<0.075	0.2517	<0.025	<0.060	<0.005		0.0351				<1.000	<0.500	1.77	1.77	
Unique Plating Company	1	10/27/2020	C	FP	<0.015	<0.075	0.2849	<0.075	3.599	<0.025	<0.060			0.0521								
Univar USA, Inc.	1	2/25/2020	C	FP	<0.015	<0.075	0.03692	0.1343	<0.050	<0.025	0.1493	<0.005	48.4	0.0159				2.39	3.46	2.92	6.38	
Univar USA, Inc.	1	2/25/2020	G	FP																		79.0
Universal Plating Company, Inc.	1	9/14/2020	C	FP	<0.015	<0.075	0.1537	<0.075	0.07029	<0.025	<0.060	<0.005		0.00748				<0.100	<0.500	0.134	<0.500	

Table 30A: NBC Industrial and Commercial User Data

NBC 2020 Industrial and Commercial User Sample Results

					(m & p) Xylene				(o) Xylene				1,1-Dichloroethane			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.050				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.002	<0.002			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.002				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	2.77	1.58	1.07	0.801	0.904	0.504	0.343	0.256	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.200	<0.200			<0.100	0.124			<0.100			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.002	<0.002			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP									<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP	<0.002	<0.002	<0.002		<0.001	<0.001	<0.001					

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					1,1-Dichloroethene				1,1,1-Trichloroethane				1,1,2-Trichloroethane			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.010	<0.010	<0.010	<0.010	0.0117	0.0110	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.2500	<0.2500	<0.2500	<0.2500	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100				<0.100				0.236			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP												

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					1,1,2,2-Tetrachloroethane				1,2-Dichlorobenzene				1,2-Dichloroethane			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00273	0.00259	0.00255
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				0.0642			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.010	<0.010	<0.010	<0.010	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			0.00123	0.00126		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.0399	0.0412	0.0314	0.0419
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100				<0.100	0.141			<0.100			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			0.00102	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001						<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP					<0.001	<0.001	<0.001					

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					1,2-Dichloropropane				1,3-Dichlorobenzene				1,4-Dichlorobenzene				2-Chloroethyl vinyl ether			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	0.00117	<0.001	<0.001	<0.001	0.00124	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.010	<0.010	<0.010	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100				<0.100	0.103			0.122	0.156			0.138	<0.100		
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001													
Univar USA, Inc.	1	2/25/2020	G	FP					<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					Acetone				Acrolein				Acrylonitrile			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	0.0724	0.0285	0.0318	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	0.946	1.28	1.33	1.17	0.00550	0.00271	0.00380	<0.001	0.00144	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	70.1				0.0295				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	1.92	1.78	1.74	2.85	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	0.00134	0.00131	0.00150	0.00156	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	0.364	0.374			0.00117	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<2.500	<2.500	<2.500	<2.500	<0.2500	<0.2500	<0.2500	<0.2500	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	1.67	1.71	1.47	1.97	<0.025	<0.025	<0.025	0.0366	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	1.65	2.71	2.46	2.86	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.010				<0.010				<0.010			
Hillview Auto Body	1	8/11/2020	G	FP	0.0451				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	3.67	2.26	1.14	1.15	<0.020	<0.020	0.0696	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	46.5	54.8			0.992	1.58			<0.100	<0.100		
RI Resource Recovery	1	7/8/2020	G	FP	<0.5000				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	0.0115	0.0129	0.0123	0.0109	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	0.119	0.0844			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP												
Univar USA, Inc.	1	2/25/2020	G	FP	0.00568	0.00522	0.00508		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					Benzene				Bromodichloromethane				Bromoform			
					1	2	3	4	1	2	3	4	1	2	3	4
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	0.00120	<0.001			0.00310	0.00275			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	0.0603	0.0915	0.0980	0.0767	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100	<0.100			0.201				<0.100			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP					0.00147	0.00164	0.00150		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP	<0.001	<0.001	<0.001									

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Bromomethane				Carbon Tetrachloride				Chlorobenzene			
					1	2	3	4	1	2	3	4	1	2	3	4
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	0.00774	0.00328	0.00656	0.00418	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	0.108				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.002	<0.002			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.010				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.002				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	0.152	0.0911	0.0803	0.0500	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	1.22				<0.100				0.201	0.251		
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.020	<0.020	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	0.00517	0.00382			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.002	<0.002	<0.002		<0.001	<0.001	<0.001					
Univar USA, Inc.	1	2/25/2020	G	FP									<0.001	<0.001	<0.001	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Chloroethane				Chloroform				Chloromethane			
					1	2	3	4	1	2	3	4	1	2	3	4
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	0.0253	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	0.00434	0.00473	<0.001	0.00368	0.00201	0.00144	0.00146	0.00145
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	0.244				0.0438				0.0322			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			0.0269	0.0252			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.010				0.361				<0.010			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				0.0206				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	0.0237	0.0272	0.0342	<0.020	0.103	0.116	0.128	0.107	<0.020	<0.020	<0.020	0.0200
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	0.207				13.4				0.538			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			0.00153	0.00115			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001		0.0188	0.0188	0.0189		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP												

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					cis-1,3-Dichloropropene				Dibromochloromethane				Ethyl Acetate		Ethylbenzene			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025						<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			<0.001	<0.001	<0.001	<0.001
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			0.00366	0.00488	<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.2500	<0.2500	<0.2500	<0.2500	<0.250	<0.250	<0.250	<0.250			<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100			<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005						<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001						<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	0.0478	0.0687	0.0699	0.0470			0.563	0.320	0.229	0.168
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100				0.110						<0.100	<0.100		
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500						<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001	<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001							
Univar USA, Inc.	1	2/25/2020	G	FP											<0.001	<0.001	<0.001	

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					Isopropyl Acetate		Methylene Chloride				n-Amyl Acetate		Tetrachloroethene			
					Grab Number:	1	2	1	2	3	4	1	2	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP			<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP			0.00133	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP			<0.025						<0.025			
Cintas Corporation	1	9/8/2020	G	BP			<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP			<0.010	<0.010	<0.010	<0.010			0.153	0.148	0.129	0.112
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP			<0.250	<0.250	<0.250	<0.250			<0.2500	<0.2500	<0.2500	<0.2500
Ecological Fibers, Inc.	1	9/22/2020	G	BP			<0.025	<0.025	<0.025	<0.025			<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP			<0.100	<0.100	<0.100	<0.100			<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP			<0.005						<0.005			
Hillview Auto Body	1	8/11/2020	G	FP			<0.001						<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP			0.0207	<0.020	<0.020	<0.020			<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP			0.342						<0.100			
RI Resource Recovery	1	7/8/2020	G	FP			<0.0500						<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP			<0.010	<0.010	<0.010	<0.010			<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001	0.00136	0.00150			<0.001	<0.001	<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP			<0.001	<0.001	<0.001				<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP												

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Toluene				trans-1,2-Dichloroethene				trans-1,3-Dichloropropene			
					1	2	3	4	1	2	3	4	1	2	3	4
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	0.00283	0.00174	0.00177	0.00150	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.250	<0.250	<0.250	<0.250	<0.2500	<0.2500	<0.2500	<0.2500	<0.2500	<0.2500	<0.2500	<0.2500
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	0.423	0.249	0.131	0.0967	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	0.736	0.811			<0.100				<0.100			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	0.00102	<0.001			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP					<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP	<0.001	<0.001	<0.001									

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

					Trichloroethene				Trichlorofluoromethane				Vinyl Chloride			
					Grab Number:	1	2	3	4	1	2	3	4	1	2	3
Company	Sample Location	Sample Date	Sample Type	District	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
A. Harrison & Company, Inc.	1	8/5/2020	C	FP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	G	BP	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<0.025				<0.025				<0.025			
Cintas Corporation	1	9/8/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Conopco, Inc.	1	9/8/2020	G	BP	0.0316	0.0299	0.0255	0.0225	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Ecological Fibers, Inc.	1	1/14/2020	G	BP	<0.2500	<0.2500	<0.2500	<0.2500	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
Ecological Fibers, Inc.	1	9/22/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ecological Fibers, Inc.	1	10/22/2020	G	BP	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Godfrey and Wing Inc.	1	7/23/2020	G	BP	<0.005				<0.005				<0.005			
Hillview Auto Body	1	8/11/2020	G	FP	<0.001				<0.001				<0.001			
John H. Collins & Sons Company	1	2/13/2020	G	BP	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Organic Dyes and Pigments, LLC. - Lincoln	1	2/5/2020	G	BP	<0.100				<0.100				0.160			
RI Resource Recovery	1	7/8/2020	G	FP	<0.0500				<0.0500				<0.0500			
RI Resource Recovery	1	10/19/2020	G	FP	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.001	<0.001			<0.001	<0.001			<0.001	<0.001		
Univar USA, Inc.	1	2/25/2020	C	FP	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	
Univar USA, Inc.	1	2/25/2020	G	FP												

Table 30B: NBC Industrial and Commercial User TTO Result Detail

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	1,2-Diphenylhydrazine	1,2,4-Trichlorobenzene	2-Chloronaphthalene	2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Nitrophenol
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	2,2'-Oxybis)1-chloropropane	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4,6-Trichlorophenol	2,6-Dinitrotoluene
					ppm	ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	3,3'-Dichlorobenzidine	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Acenaphthylene	Anthracene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)Ether	Bis(2-ethylhexyl)phthalate
					ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	6.1
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	0.027

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Buthylbenzyl phthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane
					ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Indeno(1,2,3-cd)pyrene	Isophorone	N-nitrododi-n-propylamine	N-nitrosodimethylamine	N-nitrosodiphenylamine	Naphthalene
					ppm	ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

NBC 2020 Industrial and Commercial User Sample Results

Company	Sample Location	Sample Date	Sample Type	District	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
					ppm	ppm	ppm	ppm	ppm
Aspen Aerogels Rhode Island, LLC	1	7/30/2020	C	BP	<10	<10	<10	<10	<10
Aspen Aerogels Rhode Island, LLC	2	7/30/2020	G	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Cintas Corporation	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Conopco, Inc.	1	9/8/2020	C	BP	<5.0	<5.0	<5.0	<5.0	<5.0
Denison Acquisition Company, LLC	1	1/30/2020	G	BP	<0.005	<0.005	<0.005	1.4	<0.005
RI Resource Recovery	1	7/8/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
RI Resource Recovery	1	10/19/2020	C	FP	<0.005	<0.005	<0.005	<0.005	<0.005
Tedor Pharma Inc.	1	1/30/2020	G	BP	<0.025	<0.025	<0.025	<0.025	<0.025

Table 30C: NBC Industrial and Commercial User Semi-VOC Data

Industrial Manhole Sampling Data 2020*

Date	Location	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)	Pb (ppm)	Ni (ppm)	Ag (ppm)	Zn (ppm)
1/8/2020	F122A	<0.015	<0.075	0.06650	<0.004	<0.075	<0.050	<0.025	0.07341
1/8/2020	F122B	<0.015	<0.075	0.04385	0.0702	<0.075	0.05341	<0.025	0.07491
1/8/2020	F122C	<0.015	<0.075	0.04483	<0.004	<0.075	<0.050	<0.025	0.1793
1/8/2020	F123A	<0.015	0.1490	0.4941	0.0119	<0.075	2.068	<0.025	4.967
1/8/2020	F123B	<0.015	<0.075	0.05667	<0.004	<0.075	<0.050	<0.025	0.4518
1/15/2020	B07A	<0.015	<0.075	0.02136	<0.004	<0.075	<0.050	<0.025	<0.060
1/15/2020	B07B	<0.015	<0.075	0.03481	<0.004	<0.075	<0.050	<0.025	<0.060
1/15/2020	B26A	<0.015	<0.075	<0.020	0.0123	<0.075	<0.050	<0.025	<0.060
1/15/2020	B26B	<0.015	<0.075	0.02646	0.0115	<0.075	<0.050	<0.025	0.09987
1/15/2020	B41A	<0.015	<0.075	0.08264	<0.004	<0.075	<0.050	<0.025	0.1846
1/15/2020	B41B	<0.015	<0.075	0.2623	0.0758	<0.075	<0.050	0.1058	0.5938
1/22/2020	F23A	0.06691	0.07923	1.856	0.00446	<0.075	0.5947	<0.025	1.041
1/22/2020	F23B	<0.015	<0.075	0.3037	<0.008	<0.075	0.2697	<0.025	2.153
1/22/2020	F45A	<0.015	<0.075	0.05413	<0.004	<0.075	<0.050	0.03505	0.1164
1/22/2020	F45B	<0.015	<0.075	0.02777	<0.004	<0.075	<0.050	0.02518	<0.060
1/22/2020	F53A	<0.015	0.4799	0.9517	0.00659	<0.075	1.186	<0.025	1.332
1/29/2020	B102B	<0.015	<0.075	0.06557	<0.004	<0.075	<0.050	<0.025	0.2327
1/29/2020	B104	<0.015	<0.075	0.02940	<0.004	<0.075	<0.050	<0.025	0.1216
1/29/2020	B126	<0.015	<0.075	0.06584	<0.004	<0.075	<0.050	<0.025	0.1677
1/29/2020	B95B	<0.015	<0.075	0.03195	<0.004	<0.075	<0.050	<0.025	0.09171
1/29/2020	B95C	<0.015	<0.075	0.05335	<0.004	<0.075	<0.050	<0.025	0.1429
1/29/2020	B96	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.07089
2/5/2020	F111A	<0.015	<0.075	1.209	0.0570	<0.075	1.376	<0.025	0.1768
2/5/2020	F111B	<0.015	<0.075	0.04218	<0.004	<0.075	<0.050	<0.025	0.1154
2/5/2020	F124A	<0.015	<0.075	9.829	0.0815	<0.075	1.695	0.7697	1.319
2/5/2020	F124B	<0.015	<0.075	0.02705	0.00493	<0.075	<0.050	<0.025	0.1278
2/5/2020	F156A	<0.015	<0.075	0.02688	<0.004	<0.075	<0.050	<0.025	0.1317
2/5/2020	F156B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.2024
2/12/2020	B124A	<0.015	<0.075	0.07825	0.00506	<0.075	<0.050	<0.025	0.3336
2/12/2020	B124B	<0.015	<0.075	0.09102	0.00708	<0.075	0.07802	<0.025	0.6581
2/12/2020	B124C	<0.015	<0.075	0.07820	0.00537	<0.075	0.06746	<0.025	0.5623
2/12/2020	B125	<0.015	<0.075	0.03681	0.00430	<0.075	<0.050	<0.025	<0.060
2/12/2020	B73A	<0.015	<0.075	0.03056	<0.008	<0.075	<0.050	<0.025	0.08268
2/12/2020	B73B	<0.015	<0.075	0.1026	<0.008	<0.075	<0.050	<0.025	0.08444
2/19/2020	F116A	<0.015	<0.075	0.07317	<0.004	<0.075	<0.050	<0.025	0.07128
2/19/2020	F116B	<0.015	<0.075	0.05464	<0.004	<0.075	<0.050	<0.025	<0.060
2/19/2020	F151A	<0.015	<0.075	<0.020	<0.004	<0.075	0.1912	<0.025	0.2803
2/19/2020	F151B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
2/19/2020	F81A	<0.015	<0.075	0.02028	<0.004	<0.075	<0.050	<0.025	0.1015
2/19/2020	F81B	<0.015	<0.075	0.05278	<0.004	<0.075	<0.050	<0.025	0.08202
2/25/2020	B16A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
2/25/2020	B16B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
2/25/2020	B27B	<0.015	<0.075	0.03271	0.00456	<0.075	<0.050	<0.025	0.4258
2/25/2020	B52A	<0.015	<0.075	0.07601	<0.004	<0.075	<0.050	<0.025	0.09046
2/25/2020	B52B	<0.015	<0.075	0.06388	0.00503	<0.075	<0.050	<0.025	0.1412
3/3/2020	F08A	<0.015	<0.075	1.224		<0.075	0.2058	<0.025	0.2356
3/3/2020	F08B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
3/3/2020	F11A	<0.015	<0.075	0.02290	<0.004	<0.075	<0.050	<0.025	0.07276
3/3/2020	F11B	<0.015	<0.075	1.121	0.134	<0.075	0.2381	<0.025	0.1545
3/3/2020	F11C	<0.015	<0.075	0.02376	<0.004	<0.075	<0.050	<0.025	0.08626
3/3/2020	F181A	<0.015	<0.075	0.6630		<0.075	0.7553	<0.025	0.2211
3/11/2020	B92A	<0.015	<0.075	0.05957	<0.004	<0.075	<0.050	<0.025	0.1060

*Manhole sampling limited in 2020 due to COVID-19 pandemic response

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2020*

Date	Location	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)	Pb (ppm)	Ni (ppm)	Ag (ppm)	Zn (ppm)
3/11/2020	B92B	<0.015	0.2391	2.564	0.0221	<0.075	2.710	0.1521	0.08007
3/11/2020	B92C	<0.015	<0.075	0.1843	0.0102	<0.075	0.1835	<0.025	<0.060
3/11/2020	B95A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.06739
3/11/2020	B95B	<0.015	<0.075	0.02313	<0.004	<0.075	<0.050	<0.025	0.07776
3/11/2020	B95C	<0.015	<0.075	0.02759	<0.004	<0.075	<0.050	<0.025	0.08723
6/10/2020	B102B	<0.015	<0.075	0.02095	<0.004	<0.075	<0.050	<0.025	0.08131
6/10/2020	B104	<0.015	<0.075	0.06201	0.0130	<0.075	<0.050	<0.025	0.1917
6/10/2020	B92A	<0.015	<0.075	0.07484	<0.004	<0.075	<0.050	<0.025	0.08120
6/10/2020	B92B	<0.015	<0.075	0.7297	0.00426	<0.075	0.4454	0.02623	0.06911
6/24/2020	F65A	<0.015	0.4833	0.2645	0.00457	0.2531	0.07969	<0.025	0.5796
7/8/2020	B30B	<0.015	<0.075	0.03237	<0.004	<0.075	<0.050	<0.025	<0.060
7/8/2020	B30C	<0.015	<0.075	0.05889	<0.004	<0.075	<0.050	<0.025	0.2130
7/15/2020	F48A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
7/29/2020	F53A	<0.015	0.1364	0.1242	0.0333	<0.075	0.1322	<0.025	1.217
9/30/2020	F111A	<0.015	<0.075	1.242	1.35	0.1620	1.139	<0.025	0.1123
9/30/2020	F111B	<0.015	<0.075	0.04035	0.00456	<0.075	<0.050	<0.025	0.1564
9/30/2020	F123A	<0.015	0.1748	1.025	0.0536	0.1246	2.074	<0.025	3.311
9/30/2020	F123B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.09285
10/7/2020	B14A	<0.015	<0.075	0.03862	<0.004	<0.075	<0.050	<0.025	0.2291
10/7/2020	B14B	<0.015	<0.075	0.1630	0.0183	<0.075	<0.050	<0.025	0.07516
10/7/2020	B37A	<0.015	<0.075	0.04469	<0.004	<0.075	<0.050	<0.025	0.1380
10/7/2020	B37B	<0.015	0.1398	0.2090	0.00522	<0.075	0.2440	1.354	0.5970
10/7/2020	B92A	<0.015	<0.075	0.02108	<0.004	<0.075	<0.050	<0.025	0.07682
10/7/2020	B92B	<0.015	0.4617	2.199	0.804	0.2901	1.538	0.06601	0.1449
10/28/2020	F08A	<0.015	<0.075	0.1735	<0.004	<0.075	<0.050	<0.025	<0.060
10/28/2020	F08B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
10/28/2020	F09A	<0.015	0.1007	0.09137	<0.004	<0.075	<0.050	<0.025	0.09688
10/28/2020	F09B	<0.015	<0.075	0.05828	<0.004	<0.075	<0.050	<0.025	0.1599
10/28/2020	F11B	<0.015	<0.075	0.07196	<0.004	<0.075	<0.050	<0.025	0.3178
10/28/2020	F11C	<0.015	<0.075	0.05032	<0.004	<0.075	<0.050	<0.025	0.07125
10/28/2020	F181A	<0.015	<0.075	0.5474	0.00929	<0.075	0.4369	<0.025	0.2588
11/4/2020	F23A	<0.015	<0.075	0.2177	0.0181	<0.075	0.1395	<0.025	0.3920
11/4/2020	F23B	<0.015	<0.075	0.03294	<0.004	<0.075	<0.050	<0.025	0.2071
11/9/2020	B92A	<0.015	<0.075	0.03483	<0.004	<0.075	<0.050	<0.025	0.1156
11/9/2020	B92B	<0.015	0.1347	0.7907	0.0672	<0.075	0.3994	0.09309	<0.060
11/9/2020	B92C	<0.015	<0.075	0.2888	0.0873	<0.075	0.1563	0.03263	<0.060
11/9/2020	B95A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
11/9/2020	B95B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
11/9/2020	B95C	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.06246
11/18/2020	B124B	<0.015	<0.075	0.2811	<0.008	0.07666	<0.050	<0.025	1.337
11/18/2020	B124C	<0.015	0.1873	13.52	2.96	<0.075	3.460	0.05997	6.980
11/18/2020	F07	<0.015	<0.075	0.09412	0.00432	<0.075	0.06234	<0.025	0.3521
11/18/2020	F204A	<0.015	<0.075	0.02128	<0.004	<0.075	<0.050	<0.025	0.1003
11/18/2020	F204B	<0.015	0.09308	0.2475	0.00833	0.1469	0.06457	<0.025	2.756
11/18/2020	F65A	0.01860	0.9860	1.234	0.00664	0.5235	0.1289	<0.025	0.7829
11/18/2020	F65B	<0.015	0.6989	0.06404	0.107	<0.075	0.06278	<0.025	<0.060
11/24/2020	B13A	<0.015	<0.075	0.05524	0.00431	<0.075	<0.050	<0.025	0.2276
11/24/2020	B13B	<0.015	<0.075	0.09806	0.00638	<0.075	<0.050	<0.025	0.2538
11/24/2020	B44A	<0.015	<0.075	0.1066	<0.004	<0.075	<0.050	<0.025	0.2137
11/24/2020	B44B	<0.015	<0.075	0.09280	<0.004	<0.075	<0.050	<0.025	0.2355
12/2/2020	F04A	<0.015	<0.075	0.05875	0.0162	<0.075	<0.050	<0.025	<0.060
12/2/2020	F04B	<0.015	<0.075	0.2073	<0.004	<0.075	<0.050	<0.025	0.2256

*Manhole sampling limited in 2020 due to COVID-19 pandemic response

Table 31: Industrial Manhole Sampling Data

Industrial Manhole Sampling Data 2020*

Date	Location	Cd (ppm)	Cr (ppm)	Cu (ppm)	Total CN (ppm)	Pb (ppm)	Ni (ppm)	Ag (ppm)	Zn (ppm)
12/2/2020	F151A	<0.015	<0.075	0.02001	<0.004	<0.075	<0.050	<0.025	<0.060
12/2/2020	F151B	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
12/2/2020	F53A	<0.015	0.3447	0.2815	0.175	<0.075	0.7317	<0.025	1.593
12/2/2020	F53B	<0.015	<0.075	0.09093	<0.004	<0.075	<0.050	<0.025	0.2939
12/9/2020	B39A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
12/9/2020	B39B	<0.015	0.1828	0.05348	<0.004	<0.075	<0.050	<0.025	<0.060
12/9/2020	B41A	<0.015	<0.075	0.07110	<0.004	<0.075	<0.050	<0.025	0.1329
12/9/2020	B41B	<0.015	<0.075	0.06733	0.0839	<0.075	<0.050	<0.025	0.1393
12/9/2020	B73A	<0.015	<0.075	0.03275	<0.004	<0.075	<0.050	<0.025	<0.060
12/9/2020	B73B	<0.015	<0.075	0.04685	0.00537	<0.075	<0.050	<0.025	0.07959
12/15/2020	F07	<0.015	0.2011	8.567	2.11	<0.075	8.656	0.1464	5.530
12/15/2020	F120	<0.015	0.07670	0.6086	0.0169	<0.075	0.2638	<0.025	0.9574
12/15/2020	F125A	<0.015	<0.075	0.6113	0.105	<0.075	0.6002	0.02544	0.1867
12/15/2020	F44A	<0.015	<0.075	0.05255	<0.004	<0.075	<0.050	<0.025	0.1020
12/15/2020	F45A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
12/15/2020	F51	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.09796
12/15/2020	F78A	<0.015	<0.075	0.03622	0.00476	<0.075	<0.050	<0.025	0.08283
12/21/2020	B08	<0.015	<0.075	0.05322	<0.004	<0.075	<0.050	<0.025	0.2838
12/21/2020	B34	<0.015	<0.075	0.05338	<0.004	<0.075	<0.050	<0.025	0.1657
12/21/2020	B47	<0.015	<0.075	0.06058	<0.004	<0.075	<0.050	<0.025	0.1288
12/21/2020	B91	<0.015	<0.075	0.6175	0.526	<0.075	0.4976	0.1232	0.1242
12/21/2020	B92A	<0.015	<0.075	0.04247	<0.004	<0.075	<0.050	<0.025	0.2070
12/21/2020	B92B	<0.015	0.1120	1.662	1.26	<0.075	1.297	0.3038	0.1788
12/21/2020	B92C	<0.015	<0.075	0.5340	0.594	<0.075	0.4145	0.09768	0.06348
12/28/2020	F07	<0.015	<0.075	0.5865	0.413	<0.075	0.1478	<0.025	0.1344
12/28/2020	F120	<0.015	<0.075	0.04010	0.0108	<0.075	<0.050	<0.025	<0.060
12/28/2020	F125A	<0.015	<0.075	<0.020	0.00468	<0.075	<0.050	<0.025	<0.060
12/28/2020	F44A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
12/28/2020	F45A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060
12/28/2020	F51	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	0.08050
12/28/2020	F78A	<0.015	<0.075	<0.020	<0.004	<0.075	<0.050	<0.025	<0.060

*Manhole sampling limited in 2020 due to COVID-19 pandemic response

Table 31: Industrial Manhole Sampling Data

Line Cleaning Sampling Data 2020

Date	Location	Parameter	Result	Units
7/29/2020	F51	(m & p) Xylene	<0.002	ppm
7/29/2020	F51	(o) Xylene	<0.001	ppm
7/29/2020	F51	1,1,1-Trichloroethane	<0.001	ppm
7/29/2020	F51	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/29/2020	F51	1,1,2-Trichloroethane	<0.001	ppm
7/29/2020	F51	1,1-Dichloroethane	<0.001	ppm
7/29/2020	F51	1,1-Dichloroethene	<0.001	ppm
7/29/2020	F51	1,2-Dichlorobenzene	<0.001	ppm
7/29/2020	F51	1,2-Dichloroethane	<0.001	ppm
7/29/2020	F51	1,2-Dichloropropane	<0.001	ppm
7/29/2020	F51	1,3-Dichlorobenzene	<0.001	ppm
7/29/2020	F51	1,4-Dichlorobenzene	<0.001	ppm
7/29/2020	F51	2-Chloroethylvinylether	<0.001	ppm
7/29/2020	F51	Acetone	0.0176	ppm
7/29/2020	F51	Acrolein	<0.001	ppm
7/29/2020	F51	Acrylonitrile	<0.001	ppm
7/29/2020	F51	Aluminum	154.7	ppb
7/29/2020	F51	Arsenic	0.6588	ppb
7/29/2020	F51	Benzene	<0.001	ppm
7/29/2020	F51	Bromodichloromethane	<0.001	ppm
7/29/2020	F51	Bromoform	<0.001	ppm
7/29/2020	F51	Bromomethane	<0.002	ppm
7/29/2020	F51	Cadmium	0.05971	ppb
7/29/2020	F51	Carbon Tetrachloride	<0.001	ppm
7/29/2020	F51	Chlorobenzene	<0.001	ppm
7/29/2020	F51	Chloroethane	<0.001	ppm
7/29/2020	F51	Chloroform	<0.001	ppm
7/29/2020	F51	Chloromethane	<0.001	ppm
7/29/2020	F51	Chromium	0.8449	ppb
7/29/2020	F51	cis-1,3-Dichloropropene	<0.001	ppm
7/29/2020	F51	Copper	34.59	ppb
7/29/2020	F51	Cyanide, Total	<4.000	ppb
7/29/2020	F51	Dibromochloromethane	<0.001	ppm
7/29/2020	F51	Ethylbenzene	<0.001	ppm
7/29/2020	F51	Iron	1667	ppb
7/29/2020	F51	Lead	5.074	ppb
7/29/2020	F51	Methylene Chloride	<0.001	ppm
7/29/2020	F51	Molybdenum	0.8467	ppb
7/29/2020	F51	Nickel	6.389	ppb
7/29/2020	F51	Selenium	<1.000	ppb
7/29/2020	F51	Silver	0.2678	ppb
7/29/2020	F51	Tetrachloroethene	<0.001	ppm
7/29/2020	F51	Toluene	<0.001	ppm
7/29/2020	F51	trans-1,2-Dichloroethene	<0.001	ppm
7/29/2020	F51	trans-1,3-Dichloropropene	<0.001	ppm
7/29/2020	F51	Trichloroethene	<0.001	ppm
7/29/2020	F51	Trichlorofluoromethane	<0.001	ppm
7/29/2020	F51	TSS	110.00	mg/l
7/29/2020	F51	Vinyl Chloride	<0.001	ppm
7/29/2020	F51	Zinc	70.37	ppb
7/29/2020	F59B	(m & p) Xylene	<0.002	ppm
7/29/2020	F59B	(o) Xylene	<0.001	ppm
7/29/2020	F59B	1,1,1-Trichloroethane	<0.001	ppm

Table 32: Line Cleaning Sampling Data 2020

Line Cleaning Sampling Data 2020

Date	Location	Parameter	Result	Units
7/29/2020	F59B	1,1,2,2-Tetrachloroethane	<0.001	ppm
7/29/2020	F59B	1,1,2-Trichloroethane	<0.001	ppm
7/29/2020	F59B	1,1-Dichloroethane	<0.001	ppm
7/29/2020	F59B	1,1-Dichloroethene	<0.001	ppm
7/29/2020	F59B	1,2-Dichlorobenzene	<0.001	ppm
7/29/2020	F59B	1,2-Dichloroethane	<0.001	ppm
7/29/2020	F59B	1,2-Dichloropropane	<0.001	ppm
7/29/2020	F59B	1,3-Dichlorobenzene	<0.001	ppm
7/29/2020	F59B	1,4-Dichlorobenzene	<0.001	ppm
7/29/2020	F59B	2-Chloroethylvinylether	<0.001	ppm
7/29/2020	F59B	Acetone	0.0602	ppm
7/29/2020	F59B	Acrolein	<0.001	ppm
7/29/2020	F59B	Acrylonitrile	<0.001	ppm
7/29/2020	F59B	Aluminum	122.7	ppb
7/29/2020	F59B	Arsenic	<0.500	ppb
7/29/2020	F59B	Benzene	<0.001	ppm
7/29/2020	F59B	Bromodichloromethane	<0.001	ppm
7/29/2020	F59B	Bromoform	<0.001	ppm
7/29/2020	F59B	Bromomethane	<0.002	ppm
7/29/2020	F59B	Cadmium	0.05171	ppb
7/29/2020	F59B	Carbon Tetrachloride	<0.001	ppm
7/29/2020	F59B	Chlorobenzene	<0.001	ppm
7/29/2020	F59B	Chloroethane	<0.001	ppm
7/29/2020	F59B	Chloroform	0.00442	ppm
7/29/2020	F59B	Chloromethane	<0.001	ppm
7/29/2020	F59B	Chromium	0.7443	ppb
7/29/2020	F59B	cis-1,3-Dichloropropene	<0.001	ppm
7/29/2020	F59B	Copper	18.47	ppb
7/29/2020	F59B	Cyanide, Total	<4.000	ppb
7/29/2020	F59B	Dibromochloromethane	<0.001	ppm
7/29/2020	F59B	Ethylbenzene	<0.001	ppm
7/29/2020	F59B	Iron	538.5	ppb
7/29/2020	F59B	Lead	4.174	ppb
7/29/2020	F59B	Methylene Chloride	<0.001	ppm
7/29/2020	F59B	Molybdenum	0.5934	ppb
7/29/2020	F59B	Nickel	2.701	ppb
7/29/2020	F59B	Oil and Grease	35.98	ppm
7/29/2020	F59B	Selenium	<1.000	ppb
7/29/2020	F59B	Silver	0.1538	ppb
7/29/2020	F59B	Tetrachloroethene	<0.001	ppm
7/29/2020	F59B	Toluene	<0.001	ppm
7/29/2020	F59B	trans-1,2-Dichloroethene	<0.001	ppm
7/29/2020	F59B	trans-1,3-Dichloropropene	<0.001	ppm
7/29/2020	F59B	Trichloroethene	<0.001	ppm
7/29/2020	F59B	Trichlorofluoromethane	<0.001	ppm
7/29/2020	F59B	TSS	55.500	mg/l
7/29/2020	F59B	Vinyl Chloride	<0.001	ppm
7/29/2020	F59B	Zinc	64.28	ppb
8/1/2020	F_P80026	(m & p) Xylene	<0.002	ppm
8/1/2020	F_P80026	(o) Xylene	<0.001	ppm
8/1/2020	F_P80026	1,1,1-Trichloroethane	<0.001	ppm
8/1/2020	F_P80026	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/1/2020	F_P80026	1,1,2-Trichloroethane	<0.001	ppm

Table 32: Line Cleaning Sampling Data 2020

Line Cleaning Sampling Data 2020

Date	Location	Parameter	Result	Units
8/1/2020	F_P80026	1,1-Dichloroethane	<0.001	ppm
8/1/2020	F_P80026	1,1-Dichloroethene	<0.001	ppm
8/1/2020	F_P80026	1,2-Dichlorobenzene	<0.001	ppm
8/1/2020	F_P80026	1,2-Dichloroethane	<0.001	ppm
8/1/2020	F_P80026	1,2-Dichloropropane	<0.001	ppm
8/1/2020	F_P80026	1,3-Dichlorobenzene	<0.001	ppm
8/1/2020	F_P80026	1,4-Dichlorobenzene	<0.001	ppm
8/1/2020	F_P80026	2-Chloroethylvinylether	<0.001	ppm
8/1/2020	F_P80026	Acetone	0.00321	ppm
8/1/2020	F_P80026	Acrolein	<0.001	ppm
8/1/2020	F_P80026	Acrylonitrile	<0.001	ppm
8/1/2020	F_P80026	Aluminum	15.81	ppb
8/1/2020	F_P80026	Arsenic	1.251	ppb
8/1/2020	F_P80026	Benzene	<0.001	ppm
8/1/2020	F_P80026	Bromodichloromethane	<0.001	ppm
8/1/2020	F_P80026	Bromoform	<0.001	ppm
8/1/2020	F_P80026	Bromomethane	<0.002	ppm
8/1/2020	F_P80026	Cadmium	0.03640	ppb
8/1/2020	F_P80026	Carbon Tetrachloride	<0.001	ppm
8/1/2020	F_P80026	Chlorobenzene	<0.001	ppm
8/1/2020	F_P80026	Chloroethane	<0.001	ppm
8/1/2020	F_P80026	Chloroform	0.00207	ppm
8/1/2020	F_P80026	Chloromethane	<0.001	ppm
8/1/2020	F_P80026	Chromium	0.8466	ppb
8/1/2020	F_P80026	cis-1,3-Dichloropropene	<0.001	ppm
8/1/2020	F_P80026	Copper	5.969	ppb
8/1/2020	F_P80026	Cyanide, Total	9.50	ppb
8/1/2020	F_P80026	Dibromochloromethane	<0.001	ppm
8/1/2020	F_P80026	Ethylbenzene	<0.001	ppm
8/1/2020	F_P80026	Iron	168.6	ppb
8/1/2020	F_P80026	Lead	0.5919	ppb
8/1/2020	F_P80026	Methylene Chloride	<0.001	ppm
8/1/2020	F_P80026	Molybdenum	7.345	ppb
8/1/2020	F_P80026	Nickel	16.03	ppb
8/1/2020	F_P80026	Oil and Grease	<4.000	ppm
8/1/2020	F_P80026	Selenium	<1.000	ppb
8/1/2020	F_P80026	Silver	0.1700	ppb
8/1/2020	F_P80026	Tetrachloroethene	<0.001	ppm
8/1/2020	F_P80026	Toluene	<0.001	ppm
8/1/2020	F_P80026	trans-1,2-Dichloroethene	<0.001	ppm
8/1/2020	F_P80026	trans-1,3-Dichloropropene	<0.001	ppm
8/1/2020	F_P80026	Trichloroethene	<0.001	ppm
8/1/2020	F_P80026	Trichlorofluoromethane	<0.001	ppm
8/1/2020	F_P80026	Vinyl Chloride	<0.001	ppm
8/1/2020	F_P80026	Zinc	24.32	ppb

Table 32: Line Cleaning Sampling Data 2020

Septage Monitoring Data - 2020*

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CA39480-BP-SEPTAGE	1/2/2020	<0.015	0.015	0.08904	0.075	12.08	0.02	0.3300	0.075	0.1157	0.05	<0.025	0.025	15.99	0.06
CA39481-BP-SEPTAGE	1/6/2020	<0.015	0.015	<0.075	0.075	7.929	0.02	0.1723	0.075	0.08823	0.05	<0.025	0.025	8.863	0.06
CA40047-BP-SEPTAGE	1/7/2020	<0.015	0.015	<0.075	0.075	0.6983	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.488	0.06
CA40048-BP-SEPTAGE	1/8/2020	0.01545	0.015	0.1031	0.075	3.363	0.02	0.1431	0.075	0.1193	0.05	<0.025	0.025	9.165	0.06
CA40049-BP-SEPTAGE	1/9/2020	<0.015	0.015	<0.075	0.075	7.516	0.02	0.4319	0.075	0.07653	0.05	<0.025	0.025	10.12	0.06
CA40436-BP-SEPTAGE	1/13/2020	<0.015	0.015	0.08410	0.075	7.583	0.02	0.2107	0.075	0.09658	0.05	0.04229	0.025	15.19	0.06
CA40437-BP-SEPTAGE	1/14/2020	<0.015	0.015	<0.075	0.075	3.702	0.02	0.1234	0.075	0.05997	0.05	<0.025	0.025	8.673	0.06
CA40438-BP-SEPTAGE	1/15/2020	0.01991	0.015	<0.075	0.075	11.34	0.02	0.3414	0.075	0.1017	0.05	0.03932	0.025	15.46	0.06
CA41046-BP-SEPTAGE	1/21/2020	<0.015	0.015	0.09466	0.075	6.586	0.02	0.1690	0.075	0.1060	0.05	0.04058	0.025	13.34	0.06
CA41047-BP-SEPTAGE	1/22/2020	0.01523	0.015	0.07933	0.075	6.096	0.02	0.2044	0.075	0.1328	0.05	<0.025	0.025	14.85	0.06
CA41048-BP-SEPTAGE	1/23/2020	<0.015	0.015	<0.075	0.075	2.053	0.02	0.08023	0.075	0.05741	0.05	<0.025	0.025	4.808	0.06
CA41391-BP-SEPTAGE	1/27/2020	<0.015	0.015	<0.075	0.075	2.306	0.02	0.1535	0.075	0.09334	0.05	<0.025	0.025	8.246	0.06
CA41392-BP-SEPTAGE	1/28/2020	<0.015	0.015	<0.075	0.075	8.599	0.02	0.1962	0.075	0.09950	0.05	<0.025	0.025	11.08	0.06
CA41393-BP-SEPTAGE	1/29/2020	0.01573	0.015	0.1176	0.075	3.752	0.02	0.8208	0.075	0.1152	0.05	<0.025	0.025	7.063	0.06
CA42055-BP-SEPTAGE	2/3/2020	<0.015	0.015	<0.075	0.075	5.963	0.02	0.1034	0.075	<0.050	0.05	<0.025	0.025	3.079	0.06
CA42056-BP-SEPTAGE	2/4/2020	<0.015	0.015	<0.075	0.075	6.181	0.02	0.1106	0.075	<0.050	0.05	<0.025	0.025	3.248	0.06
CA42057-BP-SEPTAGE	2/5/2020	<0.015	0.015	<0.075	0.075	1.141	0.02	0.07503	0.075	<0.050	0.05	<0.025	0.025	2.940	0.06
CA42767-BP-SEPTAGE	2/10/2020	<0.015	0.015	<0.075	0.075	2.751	0.02	0.1406	0.075	0.05209	0.05	<0.025	0.025	6.162	0.06
CA42766-BP-SEPTAGE	2/13/2020	0.01611	0.015	0.07597	0.075	5.187	0.02	0.1995	0.075	0.1073	0.05	<0.025	0.025	9.742	0.06
CA42765-BP-SEPTAGE	2/14/2020	0.01507	0.015	0.07903	0.075	5.801	0.02	0.2379	0.075	0.1079	0.05	<0.025	0.025	9.553	0.06
CA42897-BP-SEPTAGE	2/17/2020	0.03640	0.015	0.1646	0.075	16.20	0.02	0.7490	0.075	0.3065	0.05	0.02644	0.025	47.67	0.3
CA42898-BP-SEPTAGE	2/19/2020	0.02403	0.015	0.1569	0.075	8.533	0.02	0.5632	0.075	0.1718	0.05	0.04449	0.025	25.59	0.3
CA42899-BP-SEPTAGE	2/21/2020	0.02457	0.015	0.1904	0.075	17.96	0.02	1.360	0.075	0.2146	0.05	0.05231	0.025	28.33	0.3
CA43364-BP-SEPTAGE	2/26/2020	0.03389	0.015	0.2002	0.075	25.86	0.02	0.7989	0.075	0.3375	0.05	0.07043	0.025	16.52	0.06
CA43363-BP-SEPTAGE	2/27/2020	0.02241	0.015	0.1255	0.075	22.47	0.02	0.4316	0.075	0.1966	0.05	0.03585	0.025	26.35	0.3
CA43362-BP-SEPTAGE	2/28/2020	<0.015	0.015	<0.075	0.075	5.194	0.02	0.2773	0.075	0.07767	0.05	0.04694	0.025	9.220	0.06
CA43822-BP-SEPTAGE	3/4/2020	0.01592	0.015	<0.075	0.075	1.985	0.02	0.3030	0.075	<0.050	0.05	<0.025	0.025	3.888	0.06
CA43823-BP-SEPTAGE	3/6/2020	<0.015	0.015	<0.075	0.075	0.8041	0.02	0.1354	0.075	<0.050	0.05	<0.025	0.025	1.928	0.06
CA43824-BP-SEPTAGE	3/7/2020	<0.015	0.015	<0.075	0.075	0.6153	0.02	0.1016	0.075	<0.050	0.05	<0.025	0.025	1.823	0.06
CA44333-BP-SEPTAGE	3/9/2020	<0.015	0.015	<0.075	0.075	0.6081	0.02	0.1042	0.075	<0.050	0.05	<0.025	0.025	1.436	0.06
CA44334-BP-SEPTAGE	3/10/2020	<0.015	0.015	<0.075	0.075	0.6404	0.02	0.1078	0.075	<0.050	0.05	<0.025	0.025	1.415	0.06
CA44335-BP-SEPTAGE	3/11/2020	<0.015	0.015	<0.075	0.075	3.958	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.290	0.06
CA44777-BP-SEPTAGE	3/16/2020	<0.015	0.015	<0.075	0.075	3.051	0.02	0.2940	0.075	0.09383	0.05	<0.025	0.025	9.822	0.06
CA44778-BP-SEPTAGE	3/18/2020	<0.015	0.015	<0.075	0.075	5.095	0.02	0.3580	0.075	0.08461	0.05	<0.025	0.025	8.059	0.06
CA44779-BP-SEPTAGE	3/20/2020	<0.015	0.015	<0.075	0.075	1.308	0.02	0.1305	0.075	<0.050	0.05	<0.025	0.025	3.893	0.06
CA52068-BP-SEPTAGE	7/20/2020	0.01929	0.015	0.09639	0.075	11.80	0.02	2.329	0.075	0.2210	0.05	<0.025	0.025	22.93	0.3
CA52069-BP-SEPTAGE	7/21/2020	0.02315	0.015	0.1367	0.075	30.68	0.02	4.528	0.075	0.2183	0.05	0.04515	0.025	26.49	0.3
CA52070-BP-SEPTAGE	7/22/2020	<0.015	0.015	<0.075	0.075	1.147	0.02	0.1827	0.075	<0.050	0.05	<0.025	0.025	3.960	0.06
CA53747-BP-SEPTAGE	7/29/2020	<0.015	0.015	<0.075	0.075	2.580	0.02	0.4314	0.075	0.07020	0.05	<0.025	0.025	5.194	0.06
CA53748-BP-SEPTAGE	7/30/2020	<0.015	0.015	<0.075	0.075	2.155	0.02	0.3677	0.075	0.06713	0.05	<0.025	0.025	4.821	0.06

*Septage sampling discontinued late March through mid-July due to COVID-19 pandemic response.

Table 33: Septage Sampling Data

Septage Monitoring Data - 2020*

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CA53749-BP-SEPTAGE	7/31/2020	<0.015	0.015	<0.075	0.075	1.866	0.02	0.3046	0.075	0.1507	0.05	<0.025	0.025	6.085	0.06
CA54302-BP-SEPTAGE	8/3/2020	0.01577	0.015	0.1393	0.075	5.450	0.02	1.274	0.075	0.1707	0.05	0.02875	0.025	17.80	0.06
CA54303-BP-SEPTAGE	8/4/2020	<0.015	0.015	<0.075	0.075	3.088	0.02	0.4184	0.075	0.06091	0.05	<0.025	0.025	3.187	0.06
CA54304-BP-SEPTAGE	8/7/2020	<0.015	0.015	<0.075	0.075	5.624	0.02	0.8701	0.075	0.1027	0.05	<0.025	0.025	8.735	0.06
CA54707-BP-SEPTAGE	8/11/2020	0.01873	0.015	0.1493	0.075	11.13	0.02	2.372	0.075	0.1835	0.05	<0.025	0.025	10.72	0.06
CA54708-BP-SEPTAGE	8/12/2020	0.1393	0.015	0.7587	0.075	24.18	0.02	3.647	0.075	0.6182	0.05	0.05436	0.025	44.46	0.3
CA54709-BP-SEPTAGE	8/13/2020	0.05330	0.015	0.1581	0.075	35.65	0.02	5.346	0.075	0.2268	0.05	0.02836	0.025	46.93	0.3
CA55130-BP-SEPTAGE	8/17/2020	<0.015	0.015	<0.075	0.075	1.673	0.02	0.2297	0.075	0.05076	0.05	<0.025	0.025	2.972	0.06
CA55132-BP-SEPTAGE	8/19/2020	<0.015	0.015	<0.075	0.075	0.3797	0.02	<0.075	0.075	0.06915	0.05	<0.025	0.025	1.247	0.06
CA55131-BP-SEPTAGE	8/21/2020	<0.015	0.015	<0.075	0.075	25.83	0.02	4.057	0.075	0.1304	0.05	0.1131	0.025	9.021	0.06
CA55579-BP-SEPTAGE	8/25/2020	<0.015	0.015	<0.075	0.075	4.007	0.02	0.6997	0.075	0.1161	0.05	<0.025	0.025	11.26	0.06
CA55580-BP-SEPTAGE	8/27/2020	<0.015	0.015	<0.075	0.075	2.397	0.02	0.3785	0.075	<0.050	0.05	<0.025	0.025	2.430	0.06
CA55581-BP-SEPTAGE	8/29/2020	<0.015	0.015	<0.075	0.075	0.5445	0.02	0.08922	0.075	<0.050	0.05	<0.025	0.025	2.148	0.06
CA56087-BP-SEPTAGE	8/31/2020	0.04059	0.015	0.1125	0.075	25.62	0.02	4.630	0.075	0.2759	0.05	0.03362	0.025	17.96	0.06
CA56088-BP-SEPTAGE	9/1/2020	0.02733	0.015	0.1248	0.075	15.37	0.02	2.231	0.075	0.2318	0.05	0.02688	0.025	30.11	0.3
CA56089-BP-SEPTAGE	9/4/2020	0.02397	0.015	0.1205	0.075	7.149	0.02	1.207	0.075	0.1930	0.05	<0.025	0.025	20.78	0.3
CA56634-BP-SEPTAGE	9/8/2020	<0.015	0.015	<0.075	0.075	1.298	0.02	0.2010	0.075	0.1080	0.05	<0.025	0.025	6.729	0.06
CA56635-BP-SEPTAGE	9/10/2020	<0.015	0.015	<0.075	0.075	12.89	0.02	1.931	0.075	0.1014	0.05	<0.025	0.025	8.580	0.06
CA56636-BP-SEPTAGE	9/12/2020	<0.015	0.015	<0.075	0.075	1.737	0.02	0.3278	0.075	0.09083	0.05	0.03828	0.025	7.062	0.06
CA57208-BP-SEPTAGE	9/16/2020	<0.015	0.015	<0.075	0.075	3.072	0.02	0.6560	0.075	0.09913	0.05	<0.025	0.025	11.03	0.06
CA57206-BP-SEPTAGE	9/17/2020	<0.015	0.015	<0.075	0.075	3.019	0.02	0.6614	0.075	0.1017	0.05	<0.025	0.025	11.06	0.06
CA57207-BP-SEPTAGE	9/19/2020	<0.015	0.015	<0.075	0.075	2.878	0.02	0.5517	0.075	0.1768	0.05	<0.025	0.025	11.54	0.06
CA57657-BP-SEPTAGE	9/21/2020	<0.015	0.015	<0.075	0.075	1.145	0.02	0.2180	0.075	0.07764	0.05	<0.025	0.025	4.970	0.06
CA57658-BP-SEPTAGE	9/23/2020	<0.015	0.015	<0.075	0.075	0.5560	0.02	0.1161	0.075	0.05439	0.05	<0.025	0.025	3.363	0.06
CA57659-BP-SEPTAGE	9/25/2020	<0.015	0.015	<0.075	0.075	2.958	0.02	0.5496	0.075	0.1048	0.05	0.1807	0.05	10.49	0.06
CA58262-BP-SEPTAGE	9/28/2020	<0.015	0.015	0.1781	0.075	6.154	0.02	0.9504	0.075	0.4278	0.05	<0.025	0.025	11.28	0.06
CA58263-BP-SEPTAGE	9/29/2020	<0.015	0.015	<0.075	0.075	2.462	0.02	0.4006	0.075	0.06746	0.05	<0.025	0.025	4.117	0.06
CA58264-BP-SEPTAGE	9/30/2020	0.01859	0.015	0.1568	0.075	27.18	0.02	6.886	0.075	0.2171	0.05	0.03519	0.025	18.68	0.06
CA58823-BP-SEPTAGE	10/6/2020	<0.015	0.015	0.08678	0.075	7.555	0.02	1.018	0.075	0.1076	0.05	<0.025	0.025	10.62	0.06
CA58824-BP-SEPTAGE	10/7/2020	<0.015	0.015	<0.075	0.075	4.239	0.02	0.6388	0.075	0.08362	0.05	<0.025	0.025	12.39	0.06
CA58822-BP-SEPTAGE	10/8/2020	0.01714	0.015	0.1495	0.075	9.873	0.02	1.558	0.075	0.1717	0.05	<0.025	0.025	25.56	0.3
CA59260-BP-SEPTAGE	10/13/2020	<0.015	0.015	<0.075	0.075	1.620	0.02	0.6178	0.075	0.07244	0.05	<0.025	0.025	6.381	0.06
CA59261-BP-SEPTAGE	10/15/2020	<0.015	0.015	<0.075	0.075	2.254	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.297	0.06
CA59262-BP-SEPTAGE	10/17/2020	0.02736	0.015	<0.075	0.075	13.96	0.02	0.5132	0.075	0.09931	0.05	0.03176	0.025	18.09	0.06
CA59796-BP-SEPTAGE	10/20/2020	0.04401	0.015	0.2040	0.075	17.70	0.02	0.9138	0.075	0.2801	0.05	0.03883	0.025	43.72	0.3
CA59797-BP-SEPTAGE	10/22/2020	<0.015	0.015	<0.075	0.075	3.571	0.02	0.2857	0.075	0.08544	0.05	<0.025	0.025	7.533	0.06
CA59798-BP-SEPTAGE	10/23/2020	<0.015	0.015	<0.075	0.075	0.4231	0.02	0.1338	0.075	<0.050	0.05	<0.025	0.025	2.032	0.06
CA60628-BP-SEPTAGE	10/27/2020	<0.015	0.015	<0.075	0.075	1.321	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.199	0.06
CA60629-BP-SEPTAGE	10/29/2020	<0.015	0.015	<0.075	0.075	6.014	0.02	0.1440	0.075	0.1160	0.05	<0.025	0.025	10.43	0.06
CA60630-BP-SEPTAGE	10/31/2020	<0.015	0.015	<0.075	0.075	3.572	0.02	0.2333	0.075	0.1658	0.05	<0.025	0.025	18.14	0.06

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Septage Monitoring Data - 2020*

Results in ppm

Sample No.	Date	Cd	Cd (MDL)	Cr	Cr (MDL)	Cu	Cu (MDL)	Pb	Pb (MDL)	Ni	Ni (MDL)	Ag	Ag (MDL)	Zn	Zn (MDL)
CA61026-BP-SEPTAGE	11/2/2020	<0.015	0.015	<0.075	0.075	2.564	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	4.155	0.06
CA61027-BP-SEPTAGE	11/4/2020	<0.015	0.015	<0.075	0.075	1.017	0.02	<0.075	0.075	0.05630	0.05	<0.025	0.025	5.797	0.06
CA61028-BP-SEPTAGE	11/7/2020	<0.015	0.015	<0.075	0.075	6.259	0.02	0.5150	0.075	0.1248	0.05	<0.025	0.025	15.53	0.06
CA61167-BP-SEPTAGE	11/9/2020	<0.015	0.015	<0.075	0.075	3.500	0.02	0.08230	0.075	<0.050	0.05	<0.025	0.025	3.714	0.06
CA61168-BP-SEPTAGE	11/12/2020	<0.015	0.015	<0.075	0.075	3.794	0.02	0.09813	0.075	<0.050	0.05	<0.025	0.025	4.081	0.06
CA61169-BP-SEPTAGE	11/14/2020	0.01944	0.015	0.1016	0.075	39.24	0.02	0.3311	0.075	1.126	0.05	0.03185	0.025	16.32	0.06
CA61803-BP-SEPTAGE	11/16/2020	<0.015	0.015	<0.075	0.075	1.481	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.269	0.06
CA61802-BP-SEPTAGE	11/17/2020	<0.015	0.015	<0.075	0.075	1.444	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.194	0.06
CA61801-BP-SEPTAGE	11/18/2020	<0.015	0.015	<0.075	0.075	1.410	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	2.169	0.06
CA62243-BP-SEPTAGE	11/23/2020	<0.015	0.015	<0.075	0.075	2.150	0.02	1.550	0.075	0.07313	0.05	<0.025	0.025	7.447	0.06
CA62242-BP-SEPTAGE	11/24/2020	0.01538	0.015	0.09393	0.075	0.4411	0.02	0.6564	0.075	0.1795	0.05	<0.025	0.025	25.29	0.3
CA62241-BP-SEPTAGE	11/25/2020	<0.015	0.015	<0.075	0.075	0.2908	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.706	0.06
CA62715-BP-SEPTAGE	11/30/2020	0.01579	0.015	0.1093	0.075	13.09	0.02	0.6858	0.075	0.1468	0.05	0.03422	0.025	16.55	0.06
CA62716-BP-SEPTAGE	12/1/2020	0.01754	0.015	<0.075	0.075	6.741	0.02	0.4009	0.075	0.09890	0.05	<0.025	0.025	11.99	0.06
CA62717-BP-SEPTAGE	12/3/2020	<0.015	0.015	<0.075	0.075	2.193	0.02	0.1563	0.075	0.05871	0.05	<0.025	0.025	7.800	0.06
CA63246-BP-SEPTAGE	12/7/2020	<0.015	0.015	<0.075	0.075	0.8331	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.861	0.06
CA63247-BP-SEPTAGE	12/9/2020	<0.750	0.75	<3.750	3.75	73.81	1	<3.750	3.75	<2.500	2.5	<1.250	1.25	54.93	3
CA63248-BP-SEPTAGE	12/11/2020	<0.015	0.015	<0.075	0.075	8.790	0.02	0.3795	0.075	0.07898	0.05	<0.025	0.025	8.208	0.06
CA63684-BP-SEPTAGE	12/14/2020	0.03340	0.015	0.2141	0.075	9.408	0.02	0.8743	0.075	0.3458	0.05	0.04479	0.025	43.72	0.3
CA63685-BP-SEPTAGE	12/15/2020	<0.015	0.015	<0.075	0.075	1.531	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	3.287	0.06
CA63686-BP-SEPTAGE	12/16/2020	<0.015	0.015	<0.075	0.075	0.8258	0.02	<0.075	0.075	<0.050	0.05	<0.025	0.025	1.973	0.06
CA64313-BP-SEPTAGE	12/21/2020	0.02560	0.015	0.1370	0.075	29.85	0.02	0.5975	0.075	0.1317	0.05	0.03426	0.025	13.18	0.06
CA64314-BP-SEPTAGE	12/22/2020	0.01927	0.015	0.07760	0.075	15.88	0.02	0.4368	0.075	0.1397	0.05	<0.025	0.025	15.88	0.06
CA64315-BP-SEPTAGE	12/23/2020	0.02206	0.015	0.3776	0.075	14.96	0.02	0.6871	0.075	0.4191	0.05	0.02787	0.025	23.70	0.3
CA64877-BP-SEPTAGE	12/28/2020	<0.015	0.015	<0.075	0.075	0.6999	0.02	0.1173	0.075	0.06042	0.05	<0.025	0.025	10.83	0.06
CA64878-BP-SEPTAGE	12/29/2020	<0.015	0.015	<0.075	0.075	1.780	0.02	0.1433	0.075	0.06052	0.05	<0.025	0.025	6.879	0.06
CA64879-BP-SEPTAGE	12/31/2020	0.01616	0.015	<0.075	0.075	0.2370	0.02	0.3714	0.075	0.1288	0.05	<0.025	0.025	15.89	0.06

*Septage sampling discontinued late March through mid-July due to COVID-19 pandemic response.

Table 33: Septage Sampling Data

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

Year	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Total Metals	Total Septage Volume (MGY)
1996	4.5	77.6	946.0	167.0	33.9	19.6	1414	2663	14.760
1997	3.9	33.2	806.0	113.0	27.4	10.3	1060	2054	14.220
1998	4.5	29.2	830.0	93.0	31.0	5.7	1016	2009	17.530
1999	3.4	26.5	623.0	61.0	20.0	4.1	849	1587	21.500
2000	2.8	21.8	591.0	53.0	26.7	4.1	873	1572	23.340
2001	1.5	20.7	436.0	42.3	22.4	4.2	633	1160	17.390
2002	0.95	8.2	322.6	30.4	22.8	33.1	473	892	17.036
2003	0.89	3.8	196.4	15.9	7.1	4.2	299	527	13.033
2004	0.90	5.0	256.3	15.9	8.9	3.3	321	612	9.100
2005	0.93	7.9	349.9	25.5	11.3	1.9	458	855	8.961
2006	1.4	8.8	416.0	24.2	13.2	3.3	495	961	9.363
2007	1.5	11.5	532.3	28.2	14.8	4.2	604.8	1197	8.526
2008	2.8	10.5	440.3	19.8	9.5	5.3	508.0	996	9.301
2009	1.5	12.1	435.4	23.0	11.6	4.2	554.4	1042	9.080
2010	1.4	12.5	505.1	30.7	15.5	3.3	639.8	1208	8.023
2011	1.6	21.1	558.4	35.8	16.8	5.1	745.3	1384	7.069
2012	1.6	17.7	775.6	39.0	22.5	3.4	988.6	1848	7.077
2013	1.9	9.7	545.4	35.9	17.0	5.0	687.9	1303	7.242
2014	1.5	10.5	606.7	36.2	15.9	7.0	780.8	1459	7.922
2015	1.5	10.5	547.7	37.9	14.3	3.1	950.3	1565	8.421
2016	1.2	6.8	399.6	25.4	8.8	2.9	657.8	1102	7.839
2017	1.2	6.2	494.2	24.2	10.6	2.9	699.6	1239	7.683
2018	2.1	5.6	395.1	19.2	6.1	2.5	587.8	1019	7.272
2019	1.5	6.7	539.6	28.0	10.0	2.6	809.3	1398	8.171
2020*	1.6	8.3	489.0	50.5	9.6	2.6	751.1	1313	7.775

* 2020 loads include estimates for April, May, and June when sampling was discontinued due to COVID-19 pandemic response. The average concentrations from months with data were used with the monthly septage volumes for April, May, and June to derive estimates of monthly load, included in the annual total.

Table 34: Septage Summary 1996-2020

Field's Point and Bucklin Point 2020 Stormwater Sampling Results

Date	Location	Fecal Coliform Bacteria (MPN/100mL)	Fecal Coliform Bacteria (Not Reportable) (MPN/100mL)	Oil and Grease (mg/L)	TSS (mg/L)	Total Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrite (mg/L)
3/13/2020	Bucklin Point Stormwater South Drainage Gate - Outfall 001	<30.0		<4.000	10.400	1.92	1.59	0.331
3/13/2020	Bucklin Point Stormwater Catch Basin North of GBT Building - Outfall 003	<30.0		<4.000	5.8947	1.11	0.733	0.373
3/13/2020	Bucklin Point Stormwater Catch Basin South of GBT Building - Outfall 004	150.0		<4.000	5.7868	1.26	0.658	0.602
3/13/2020	Bucklin Point Stormwater North Drainage Gate - Outfall 005	40.0		<4.000	4.8980	1.29	0.561	0.732
3/13/2020	Bucklin Point Stormwater North Diversion Structure - Outfall 006	430.0		<4.000	5.8763	1.80	0.679	1.12
3/13/2020	Field's Point Stormwater Gravity Thickener - Outfall 001	<30.0		<4.000	14.000	0.927	0.684	0.243
3/13/2020	Field's Point Stormwater Wet Weather Drain - Outfall 002	930.0		<4.000	25.600	1.38	0.937	0.440
3/13/2020	Field's Point Stormwater Aeration Drain - Outfall 003	70.0		<4.000	21.200	1.05	0.661	0.391
3/13/2020	Field's Point Stormwater Final Clarifier - Outfall 004	<30.0		<4.000	7.0213	3.30	0.773	2.53
3/13/2020	Field's Point Stormwater Storm Water Basin #1 - Outfall 005	<30.0		<4.000	<2.0000	<0.500	<0.500	0.415
3/13/2020	Field's Point Stormwater Storm Water Basin #2 - Outfall 006	1500.0		<4.000	2.5806	2.12	1.11	1.01
3/13/2020	Field's Point Stormwater Manhole on Terminal Road Storm Line - Outfall 007	<30.0		<4.000	3.6667	4.08	3.56	0.524
3/13/2020	Field's Point Stormwater ES-TPS Oil/Water Separator - Outfall 008	<30.0		<4.000	10.057	<0.500	<0.500	0.346
6/11/2020	Bucklin Point Stormwater South Drainage Gate - Outfall 001	90.0		<4.000	76.000	10.2	9.58	0.582
6/11/2020	Bucklin Point Stormwater Catch Basin North of GBT Building - Outfall 003	230.0		<4.000	50.400	2.46	2.18	0.281
6/11/2020	Bucklin Point Stormwater Catch Basin South of GBT Building - Outfall 004	230.0		<4.000	20.800	2.27	1.87	0.403
6/11/2020	Bucklin Point Stormwater North Drainage Gate - Outfall 005	930.0		<4.000	16.000	2.06	1.74	0.316
6/11/2020	Bucklin Point Stormwater North Diversion Structure - Outfall 006	9300.0		<4.000	23.600	3.68	2.58	1.10
6/11/2020	Field's Point Stormwater Gravity Thickener - Outfall 001	90.0		<4.000	28.000	1.07	0.876	0.199
6/11/2020	Field's Point Stormwater Wet Weather Drain - Outfall 002	4300.0		<4.000	35.600	1.16	0.975	0.187
6/11/2020	Field's Point Stormwater Aeration Drain - Outfall 003	230.0		*	*	*	*	0.205
6/11/2020	Field's Point Stormwater Final Clarifier - Outfall 004	40.0		<4.000	50.800	1.98	1.59	0.386
6/11/2020	Field's Point Stormwater Storm Water Basin #1 - Outfall 005	<30.0		<4.000	<2.0000	<0.500	<0.500	0.324
6/11/2020	Field's Point Stormwater Storm Water Basin #2 - Outfall 006	430.0		<4.000	60.800	1.50	1.26	0.238
6/11/2020	Field's Point Stormwater Manhole on Terminal Road Storm Line - Outfall 007	90.0		<4.000	90.400	1.73	1.26	0.469

Table 35: Field's Point and Bucklin Point Stormwater Sampling Data

Field's Point and Bucklin Point 2020 Stormwater Sampling Results

Date	Location	Fecal Coliform Bacteria (MPN/100mL)	Fecal Coliform Bacteria (Not Reportable) (MPN/100mL)	Oil and Grease (mg/L)	TSS (mg/L)	Total Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrite (mg/L)
6/11/2020	Field's Point Stormwater ES-TPS Oil/Water Separator - Outfall 008	430.0		<4.000	48.400	1.56	1.28	0.282
9/2/2020	Bucklin Point Stormwater South Drainage Gate - Outfall 001	40.0		<4.000	45.600	0.969	0.832	0.137
9/2/2020	Bucklin Point Stormwater Catch Basin North of GBT Building - Outfall 003	2300.0		4.024	6.2105	1.24	0.932	0.310
9/2/2020	Bucklin Point Stormwater Catch Basin South of GBT Building - Outfall 004	24000.0		<4.000	39.200	1.63	1.25	0.377
9/2/2020	Bucklin Point Stormwater North Drainage Gate - Outfall 005	2300.0		<4.000	24.571	1.37	1.16	0.212
9/2/2020	Bucklin Point Stormwater North Diversion Structure - Outfall 006	>240000.0		<4.000	5.5497	1.58	0.785	0.791
9/2/2020	Field's Point Stormwater Gravity Thickener - Outfall 001	4300.0		<4.000	27.200	1.02	0.697	0.320
9/2/2020	Field's Point Stormwater Wet Weather Drain - Outfall 002	46000.0		<4.000	5.1064	1.14	0.767	0.378
9/2/2020	Field's Point Stormwater Aeration Drain - Outfall 003	4300.0		<4.000	11.200	1.43	0.981	0.451
9/2/2020	Field's Point Stormwater Final Clarifier - Outfall 004	24000.0		<4.000	3.3684	1.30	0.885	0.412
9/2/2020	Field's Point Stormwater Storm Water Basin #1 - Outfall 005	4300.0		<4.000	<2.0000	0.787	<0.500	0.787
9/2/2020	Field's Point Stormwater Storm Water Basin #2 - Outfall 006	2300.0		<4.000	4.8485	1.42	0.802	0.614
9/2/2020	Field's Point Stormwater Manhole on Terminal Road Storm Line - Outfall 007	4300.0		<4.000	8.6000	<0.500	<0.500	<0.100
9/2/2020	Field's Point Stormwater ES-TPS Oil/Water Separator - Outfall 008	2300.0		<4.000	13.600	<0.500	<0.500	<0.100
11/30/2020	Bucklin Point Stormwater South Drainage Gate - Outfall 001	<30.0		<4.000	9.1803	0.576	<0.500	0.576
11/30/2020	Bucklin Point Stormwater Catch Basin North of GBT Building - Outfall 003	1500.0		<4.000	17.200	0.976	0.652	0.324
11/30/2020	Bucklin Point Stormwater Catch Basin South of GBT Building - Outfall 004	430.0		<4.000	7.4576	1.23	0.624	0.610
11/30/2020	Bucklin Point Stormwater North Drainage Gate - Outfall 005	750.0		<4.000	7.1958	1.47	0.681	0.790
11/30/2020	Bucklin Point Stormwater North Diversion Structure - Outfall 006	930.0		<4.000	3.1250	0.840	<0.500	0.840
11/30/2020	Field's Point Stormwater Gravity Thickener - Outfall 001	930.0		<4.000	15.800	<0.500	<0.500	0.230
11/30/2020	Field's Point Stormwater Wet Weather Drain - Outfall 002	1500.0		<4.000	5.8000	<0.500	<0.500	0.332
11/30/2020	Field's Point Stormwater Aeration Drain - Outfall 003	430.0		<4.000	10.400	<0.500	<0.500	0.321
11/30/2020	Field's Point Stormwater Final Clarifier - Outfall 004	430.0		<4.000	3.6082	<0.500	<0.500	0.310
11/30/2020	Field's Point Stormwater Storm Water Basin #1 - Outfall 005	90.0		<4.000	<2.0000	0.631	<0.500	0.631
11/30/2020	Field's Point Stormwater Storm Water Basin #2 - Outfall 006	4300.0		<4.000	3.4444	1.10	0.553	0.546

Table 35: Field's Point and Bucklin Point Stormwater Sampling Data

Field's Point and Bucklin Point 2020 Stormwater Sampling Results

Date	Location	Fecal Coliform Bacteria (MPN/100mL)	Fecal Coliform Bacteria (Not Reportable) (MPN/100mL)	Oil and Grease (mg/L)	TSS (mg/L)	Total Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrite (mg/L)
11/30/2020	Field's Point Stormwater Manhole on Terminal Road Storm Line - Outfall 007	750.0		<4.000	10.000	1.01	0.525	0.482
11/30/2020	Field's Point Stormwater ES-TPS Oil/Water Separator - Outfall 008	230.0		<4.000	3.2954	<0.500	<0.500	0.188
12/24/2020	Field's Point Stormwater Aeration Drain - Outfall 003**		230.0***	<4.000	31.000	<0.500	<0.500	0.127

* Low flows, sample volume insufficient for analysis.

** Extra sampling event to make-up for missed analyses in 6/11/2020 sample.

*** Sample exceeded hold time requirements.

Table 35: Field's Point and Bucklin Point Stormwater Sampling Data

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**								TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)			
1/2/2020	10:30:00 AM	CA39046	Nutrient Blank	CA39046	BAY					<6.000	<1.5	<6.0	8.71	<5.0	<20.000	<200.000	<100.000			
1/2/2020	1:00:00 PM	CA39047	Conimicut Point Surface	CA39046	BAY	0.5	24.35	4.69	7.76	256	8.26	248	84.8	29.6	1030	658	324	28.913	0.99435	0.64728
1/2/2020	2:15:00 PM	CA39048	Edgewood Yacht Club Surface	CA39046	BAY	0.5	18.16	4.68	7.73	373	10.2	363	165	32.2	1750	830	553	17.872	0.46887	0.72063
1/2/2020	1:55:00 PM	CA39049	Pomham Rocks Surface	CA39046	BAY	0.5	16.76	4.33	7.71	360	10.2	350	130	31.1	1850	896	574	23.246	0.43152	0.74157
1/2/2020	1:20:00 PM	CA39051	Bullock Reach Buoy Surface	CA39046	BAY	0.5	25.41	5.1	7.8	222	8.05	214	83.4	28.9	1060	671	276	27.742	<0.300	0.22779
1/2/2020	1:35:00 PM	CA39052	Pawtuxet Cove Surface	CA39046	BAY	0.5	6.27	4.9	7.46	866	9.04	857	151	22.2	2820	1320	1170	8.2105	1.0733	0.81825
1/2/2020	10:20:00 AM	CA39053	Phillipsdale Landing Surface	CA39046	BAY	0.501	3.59	2.71	7.08	840	16.2	824	144	31.8	2730	1230	1170	4.6667	0.59778	0.84588
1/2/2020	10:20:00 AM	CA39054	Phillipsdale Landing Surface (Duplicate)	CA39046	BAY	0.501	3.59	2.71	7.08	851	16.4	835	147	33	2900	1240	1230	3.9583	0.91833	1.2876
1/2/2020	2:20:00 PM	CA39055	Edgewood Shoal Surface	CA39046	BAY	0.5	19.16	4.82	7.75	363	10.3	353	161	33.3	1660	814	544	22.609	0.52089	0.58959
1/2/2020	2:25:00 PM	CA39056	Edgewood Shoal Bottom	CA39046	BAY					112	4.58	107	44.7	25.5	605	461	<100.000	35.745		
1/2/2020	9:15:00 AM	CA39060	Nutrient Blank	CA39060	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
1/2/2020	8:20:00 AM	CA39061	Blackstone River @ Slater Mill	CA39060	RIVER	1.2	0.29	2.9	8.92	604	15	589	88.5	7.04	2470	886	886			2.5532
1/2/2020	10:25:00 AM	CA39062	Blackstone River @ Staline	CA39060	RIVER	0.9	0.25	2.4	7.85	454	15.2	439	89.3	6.19	2360	721	743	2.1053		
1/2/2020	9:45:00 AM	CA39063	Blackstone River @ Bikepath Bridge	CA39060	RIVER	0.12	0.27	2.5	8.02	551	14.4	537	107	5.37	2520	841	889	2.008		
1/2/2020	2:00:00 PM	CA39064	Pawtuxet River @ Broad St.	CA39060	RIVER	1.06	5.77	4.6	7.19	1140	12.4	1130	201	20.9	2850	1480	1630	<2.0000		
1/2/2020	12:45:00 PM	CA39065	Woonasquatucket River @ Valley St.	CA39060	RIVER	0.66	0.18	3.6	8.08	470	2.58	467	<7.000	<5.0	2430	628	638	<2.0000		
1/2/2020	12:45:00 PM	CA39066	Woonasquatucket River @ Valley St. (Duplicate)	CA39060	RIVER	0.66	0.18	3.6	8.08	471	<1.5	471	<7.000	<5.0	2310	642	636	<2.0000		
1/2/2020	1:20:00 PM	CA39067	Moshassuck River @ Footbridge at Mill St.	CA39060	RIVER	0.42	0.28	4.1	7.74	663	5.66	657	58.3	6.35	3370	831	899	<2.0000		
1/2/2020	11:05:00 AM	CA39068	Moshassuck River @ Higginson Ave.	CA39060	RIVER	0.49	0.29	3.4	7.74	490	3.75	486	<7.000	5.69	2860	653	677	<2.0000		
1/2/2020	1:30:00 PM	CA39069	Nutrient Blank	CA39069	RIVER					<6.000	<1.5	<6.0	7.29	<5.0	<20.000	<200.000	<100.000			
1/2/2020	10:20:00 AM	CA39070	Warren Reservoir/Kickemuit River	CA39069	RIVER	0.503	0.1	2.574	6.57	380	4.93	375	38.8	15.2	1450	859	833	2.5		
1/2/2020	10:20:00 AM	CA39071	Warren Reservoir/Kickemuit River (Duplicate)	CA39069	RIVER	0.503	0.1	2.574	6.57	377	4.88	372	34.4	15.1	1510	849	845	2.1176		
1/2/2020	9:55:00 AM	CA39072	Coles River @ Milford Rd.	CA39069	RIVER	0.515	0.07	3.05	6.44	246	2.79	243	<7.000	18.2	1480	617	636	<2.0000		
1/2/2020	10:50:00 AM	CA39073	Palmer River @ Rt. 6	CA39069	RIVER	0.502	0.09	2.377	6.39	211	3.05	208	<7.000	14.6	1290	611	616	<2.0000		
1/2/2020	11:10:00 AM	CA39074	Runnins River @ River Rd.	CA39069	RIVER	0.508	0.18	2.313	6.85	506	3.48	503	<7.000	8.57	2970	801	893	<2.0000		
1/2/2020	8:53:00 AM	CA39075	Taunton River @ Berkley Bridge	CA39069	RIVER	0.559	0.13	2.739	7.26	419	10.3	409	12	13.8	1610	734	809	3.0107		
1/2/2020	1:22:00 PM	CA39076	Ten Mile River @ Roger Williams Ave.	CA39069	RIVER	0.5	0.21	3.959	7.2	1530	30.4	1500	315	15.3	3040	2120	2160	2		
1/2/2020	12:47:00 PM	CA39077	Ten Mile River @ Central Ave.	CA39069	RIVER	0.502	0.22	3.937	6.98	1640	23.7	1620	343	15.7	2740	2060	2260	10		
1/15/2020	10:00:00 AM	CA38118	Nutrient Blank	CA38118	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
1/15/2020	9:20:00 AM	CA38119	Conimicut Point Surface	CA38118	BAY	0.5	22.6	5.96	7.68	313	8.06	305	99.8	41.3	1150	792	433	5.7447	<0.300	0.32178
1/15/2020	9:25:00 AM	CA38120	Conimicut Point Bottom	CA38118	BAY					161	4.35	157	52.7	25.3	424	563	167	12.292		
1/15/2020	1:20:00 PM	CA38121	Edgewood Yacht Club Surface	CA38118	BAY	0.5	22.95	6.71	7.72	291	7.22	284	120	48.6	857	798	460	5	<0.300	0.34548
1/15/2020	1:25:00 PM	CA38122	Edgewood Yacht Club Bottom	CA38118	BAY					182	5.35	177	66.3	31.8	452	647	203	18.043		
1/15/2020	10:25:00 AM	CA38123	Pomham Rocks Surface	CA38118	BAY	0.5	20.69	6.25	7.72	360	7.75	352	142	57	1230	872	518	5.7471	<0.300	0.21405
1/15/2020	10:25:00 AM	CA38124	Pomham Rocks Surface (Duplicate)	CA38118	BAY	0.5	20.69	6.25	7.72	360	7.71	352	142	57.8	1250	903	522	8.2759	0.58335	0.61209
1/15/2020	10:30:00 AM	CA38125	Pomham Rocks Bottom	CA38118	BAY					119	5.15	114	44.2	25.5	527	586	<100.000	29.574		
1/15/2020	12:55:00 PM	CA38126	India Point Park Surface	CA38118	BAY	0.5	19.29	6.67	7.66	485	8.41	477	84.9	40.1	1620	910	608	7.0213	0.57141	0.97218
1/15/2020	1:00:00 PM	CA38127	India Point Park Bottom	CA38118	BAY					136	5.62	130	74.5	27.4	597	537	164	9.2783		
1/15/2020	9:40:00 AM	CA38128	Bullock Reach Buoy Surface	CA38118	BAY	0.5	24.46	6.23	7.73	252	6.57	245	87	35.4	980	662	318	7.7083	1.4309	0.76023
1/15/2020	9:45:00 AM	CA38129	Bullock Reach Buoy Bottom	CA38118	BAY					122	3.56	118	44.9	21.6	481	456	129	8.5417		
1/15/2020	1:45:00 PM	CA38130	Pawtuxet Cove Surface	CA38118	BAY	0.5	6.62	6.81	7.29	1080	14.2	1070	229	31.9	2870	1640	1480	3.4783	0.91515	1.2052
1/15/2020	1:50:00 PM	CA38131	Pawtuxet Cove Bottom	CA38118	BAY					273	6.97	266	88.3	29.3	988	689	352	7.5		
1/15/2020	9:25:00 AM	CA40114	Phillipsdale Landing Surface	CA40105	BAY	0.59	7.49	6	7.63	781	12.1	769	97.7	72.4	2030	1180	975	<2.0000	1.0249	1.3351
1/15/2020	9:30:00 AM	CA40115	Phillipsdale Landing Bottom	CA40105	BAY	2.01	21.9	6.2	7.83	390	8.66	381	90.8	43.1	667	824	454	7.1739		
1/15/2020	1:50:00 PM	CA40105	Nutrient Blank	CA40105	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
1/15/2020	9:00:00 AM	CA40106	Blackstone River @ Slater Mill	CA40105	RIVER	0.98	0.2	6	7.41	739	11.2	728	35.9	9.88	2960	1000	1110	3.6364		
1/15/2020	2:15:00 PM	CA40107	Pawtuxet River @ Broad St.	CA40105	RIVER	1.17	0.16	6.9	7.18	1310	18.5	1290	265	23	3160	1830	1860	2.3656		
1/15/2020	1:25:00 PM	CA40108	Woonasquatucket River @ Valley St.	CA40105	RIVER	0.27	0.18	6.4	7.42	686	2.13	684	7.69	<5.0	2760	832	876	<2.0000		
1/15/2020	1:10:00 PM	CA40109	Woonasquatucket River @ Manton Ave. Bridge	CA40105	RIVER	0.49	0.16	6.4	7.62	627	2.06	625	<7.000	<5.0	2700	785	887	<2.0000		
1/15/2020	1:45:00 PM	CA40110	Moshassuck River @ Footbridge at Mill St.	CA40105	RIVER	0.33	0.29	7.2	7.33	883	10	873	184	5.44	4140	1190	1260	<2.0000		
1/15/2020	8:30:00 AM	CA40111	Moshassuck River @ Higginson Ave.	CA40105	RIVER	0.38	0.28	6.1	7.27	589	5.22	584	12.4	5.66	3590	746	737	<2.0000		
1/15/2020	9:55:00 AM	CA40112	Ten Mile River @ Roger Williams Ave.	CA40105	RIVER	1.29	0.24	6.8	7.6	1650	38.6	1610	245	19.5	3660	2230	2320	<2.0000		
1/15/2020	9:55:00 AM	CA40113	Ten Mile River @ Roger Williams Ave. (Duplicate)	CA40105	RIVER	1.29	0.24	6.8	7.6	1660	38.7	1620	220	19.2	3450	2290	2270	<2.0000		
1/29/2020	1:25:00 PM	CA41215	Nutrient Blank	CA41215	BAY					11.2	<1.5	11.2	<7.000	<5.0	<20.000	<200.000	<100.000			
1/29/2020	1:15:00 PM	CA41216	Conimicut Point Surface	CA41215	BAY					205	4.29	201	41.2	26	753	522	162	5.625	1.0885	1.0087
1/29/2020	1:00:00 PM	CA41219	Pomham Rocks Surface	CA41215	BAY					214	4.4	210	48.4	28.3	847	555	166	6.8	0.987	1.1923
1/29/2020	2:00:00 PM	CA41220	India Point Park Surface	CA41215	BAY					395	8.18	387	67.1	32.9	1400	750	417	6	1.5272	1.1235
1/29/2020	1:30:00 PM	CA41221	Bullock Reach Buoy Surface	CA41215	BAY					253	5.41	248	57.9	26.1	935	579	240	11.717	1.2106	0.73377
1/29/2020	8:45:00 AM	CA41223	Phillipsdale Landing Surface	CA41215	BAY					806	15.5	790	97.4	105	2510	1250	1210	6	<0.300	0.14634
1/29/2020	12:35:00 PM	CA41224	Edgewood Shoal Surface	CA41215	BAY					202	5.13	197	70.7	36.5	770	567	183	8.421	<0.300	0.31059
1/29/2020	12:40:00 PM	CA41225	Edgewood Shoal Bottom	CA41215	BAY					118	2.95	115	21	15.6	430	396	<100.000	6.9388		
1/29/2020	10:15:00 AM	CA41206	Nutrient Blank	CA41206	RIVER															

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)	TSS (ppm)			
1/29/2020	12:45:00 PM	CA41210	Woonasquatucket River @ Manton Ave. Bridge	CA41206	RIVER	0.257	0.16	3.857	7.92	558	1.73	556	<7.000	<5.0	2400	728	731	<2.0000			
1/29/2020	12:45:00 PM	CA41211	Woonasquatucket River @ Manton Ave. Bridge (Duplicate)	CA41206	RIVER	0.257	0.16	3.857	7.92	559	1.55	557	<7.000	<5.0	2370	729	735	<2.0000			
1/29/2020	10:45:00 AM	CA41212	Moshassuck River @ Footbridge at Mill St.	CA41206	RIVER	0.238	0.28	3.742	7.63	621	4.85	616	48.1	<5.0	3380	769	828	<2.0000			
1/29/2020	8:45:00 AM	CA41213	Moshassuck River @ Higginson Ave.	CA41206	RIVER	0.23	0.29	3.115	7.77	487	3.29	484	15.4	<5.0	2910	666	665	<2.0000			
1/29/2020	9:50:00 AM	CA41214	Ten Mile River @ Roger Williams Ave.	CA41206	RIVER	0.25	0.27	3.265	7.36	2160	30.7	2130	216	16.8	3470	2710	2720	<2.0000			
2/12/2020	11:00:00 AM	CA41982	Nutrient Blank	CA41982	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/12/2020	9:15:00 AM	CA41983	Conimicut Point Surface	CA41982	BAY	0.5	25.53	4.38	7.72	186	4.87	181	36.5	24.1	584	565	181	33.333	2.3426	0.80245	
2/12/2020	9:25:00 AM	CA41984	Conimicut Point Bottom	CA41982	BAY					62.1	2.69	59.4	9.97	13.1	208	410	<100.000	40.417			
2/12/2020	10:35:00 AM	CA41985	Edgewood Yacht Club Surface	CA41982	BAY	0.5	23.72	4.51	7.75	329	8.21	321	64.9	40.3	844	516	359	30.213	1.4212	1.4337	
2/12/2020	10:40:00 AM	CA41986	Edgewood Yacht Club Bottom	CA41982	BAY					128	3.72	124	19.3	20.8	316	559	<100.000	67.391			
2/12/2020	1:50:00 PM	CA41987	Pomham Rocks Surface	CA41982	BAY	0.5	24.5	5.14	7.76	287	7.14	280	53	42.2	668	687	296	31.685	1.8123	1.3805	
2/12/2020	1:55:00 PM	CA41988	Pomham Rocks Bottom	CA41982	BAY					100	3.75	96.2	22.3	20.5	294	433	<100.000	40			
2/12/2020	2:30:00 PM	CA41989	India Point Park Surface	CA41982	BAY	0.5	13.28	4.77	7.71	590	10.9	579	81.9	28.8	1530	1010	716	22.062	1.8567	1.8517	
2/12/2020	2:30:00 PM	CA41990	India Point Park Surface (Duplicate)	CA41982	BAY	0.5	13.28	4.77	7.71	588	10.7	577	83.1	29.8	1440	965	716	15.417	1.5689	1.6241	
2/12/2020	2:40:00 PM	CA41991	India Point Park Bottom	CA41982	BAY					160	4.63	155	35.4	24.7	462	479	130	45.319			
2/12/2020	9:40:00 AM	CA41992	Bullock Reach Buoy Surface	CA41982	BAY	0.5	25.65	4.56	7.77	225	5.95	219	36.5	24.9	689	563	216	32.371	<0.300	0.19531	
2/12/2020	9:50:00 AM	CA41993	Bullock Reach Buoy Bottom	CA41982	BAY					140	4.95	135	23.3	25.8	423	476	100	41.458			
2/12/2020	1:25:00 PM	CA41994	Pawtuxet Cove Surface	CA41982	BAY	0.5	4.02	5.25	7.45	861	5.42	856	45.5	26.5	2660	1160	1060	10	1.2554	1.181	
2/12/2020	1:35:00 PM	CA41995	Pawtuxet Cove Bottom	CA41982	BAY					334	7.18	327	51.9	33.5	878	670	356	28.21			
2/12/2020	10:30:00 AM	CA42008	Phillipsdale Landing Surface	CA41999	BAY	1.12	21.9	4.51	7.86	1720	13.7	1710	105	286	2630	1860	2060	11.461	1.389	2.2499	
2/12/2020	10:40:00 AM	CA42009	Phillipsdale Landing Bottom	CA41999	BAY	3.2	26.5	4.73	7.85	272	5.95	266	78.4	31.2	964	519	284	35.529			
2/12/2020	11:00:00 AM	CA41999	Nutrient Blank	CA41999	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/12/2020	8:30:00 AM	CA42000	Blackstone River @ Slater Mill	CA41999	RIVER	1.22	0.24	3.95	8.15	827	19.4	808	88.5	<5.0	3040	829	1060	7.5556			
2/12/2020	2:45:00 PM	CA42001	Pawtuxet River @ Broad St.	CA41999	RIVER	0.92	0.14	5.63	7.16	958	4.01	954	<7.000	15.6	3030	1140	1210	2			
2/12/2020	1:00:00 PM	CA42002	Woonasquatucket River @ Valley St.	CA41999	RIVER	0.49	0.2	5.01	7.55	687	2.19	685	<7.000	<5.0	2820	809	872	3.1111			
2/12/2020	12:30:00 PM	CA42003	Woonasquatucket River @ Manton Ave. Bridge	CA41999	RIVER	0.5	0.19	4.7	7.6	645	2.15	643	7.26	<5.0	2690	782	848	<2.0000			
2/12/2020	1:20:00 PM	CA42004	Moshassuck River @ Footbridge at Mill St.	CA41999	RIVER	0.43	0.29	5.13	7.42	624	5.71	618	101	<5.0	3540	847	929	3.2609			
2/12/2020	1:20:00 PM	CA42005	Moshassuck River @ Footbridge at Mill St. (Duplicate)	CA41999	RIVER	0.43	0.29	5.13	7.42	637	6.3	631	103	<5.0	3490	842	898	2.3256			
2/12/2020	9:00:00 AM	CA42006	Moshassuck River @ Higginson Ave.	CA41999	RIVER	0.69	0.32	3.54	7.28	504	3.17	501	<7.000	5.52	3160	621	651	2.2222			
2/12/2020	9:30:00 AM	CA42007	Ten Mile River @ Roger Williams Ave.	CA41999	RIVER	1.48	0.27	3.89	7.45	2210	14.4	2200	24.8	18.6	3340	1890	2560	2.8889			
2/27/2020	8:15:00 AM	CA43124	Nutrient Blank	CA43124	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/27/2020	8:00:00 AM	CA43125	Blackstone River @ Slater Mill	CA43124	RIVER	0.5	0.19	6.62	8.9	903	24.6	878	73.1	8.28	2380	1180	1140	5.5914			
2/27/2020	9:30:00 AM	CA43126	Blackstone River @ Stateline	CA43124	RIVER	0.53	0.19	6.48	7.99	698	26.4	672	80.5	5.82	2560	956	947	5.4			
2/27/2020	9:00:00 AM	CA43127	Blackstone River @ Bikepath Bridge	CA43124	RIVER	0.52	0.2	6.55	8.18	933	24.9	908	61	11.6	2490	1260	1240	8.4536			
2/27/2020	1:30:00 PM	CA43128	Pawtuxet River @ Broad St.	CA43124	RIVER	0.54	0.12	7.81	7.88	926	4.19	922	19.8	19	2570	1090	1120	5.625			
2/27/2020	1:30:00 PM	CA43129	Pawtuxet River @ Broad St. (Duplicate)	CA43124	RIVER	0.54	0.12	7.81	7.88	927	4.23	923	24.3	18.8	2280	1080	1110	6.5306			
2/27/2020	1:00:00 PM	CA43130	Woonasquatucket River @ Valley St.	CA43124	RIVER	0.369	0.17	7.71	7.75	711	2.32	709	<7.000	<5.0	2450	850	875	3.9583			
2/27/2020	10:15:00 AM	CA43131	Moshassuck River @ Footbridge at Mill St.	CA43124	RIVER	0.514	0.14	7.45	7.97	371	7.82	363	66.4	6.36	1550	702	590	17.32			
2/27/2020	12:30:00 PM	CA43132	Woonasquatucket River @ Manton Ave. Bridge	CA43124	RIVER	0.538	0.15	7.35	8.13	668	2.5	665	14.7	<5.0	2210	823	811	4			
2/27/2020	10:00:00 AM	CA43133	Nutrient Blank	CA43133	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000				
2/27/2020	12:35:00 PM	CA43134	Warren Reservoir/Kickemuit River	CA43133	RIVER	0.5	0.13	9.1	7.21	663	7.89	655	16.9	8.24	2240	1130	982	5.6566			
2/27/2020	1:00:00 PM	CA43135	Coles River @ Milford Rd.	CA43133	RIVER	0.5	0.08	7.1	6.96	190	2.85	187	<7.000	9.84	1220	627	592	4			
2/27/2020	1:25:00 PM	CA43136	Palmer River @ Rt. 6	CA43133	RIVER	0.5	13.67	7.2	7.6	201	2.61	198	<7.000	<5.0	1400	783	336	24.242			
2/27/2020	1:40:00 PM	CA43137	Runnins River @ River Rd.	CA43133	RIVER	0.5	0.15	7.2	7.5	726	10.3	716	76.6	12.2	2770	1040	1080	5.0505			
2/27/2020	8:40:00 AM	CA43138	Taunton River @ Berkley Bridge	CA43133	RIVER	0.5	0.19	7	7.6	745	19.5	725	49.6	18.9	2550	1110	1070	4.5833			
2/27/2020	9:25:00 AM	CA43139	Ten Mile River @ Roger Williams Ave.	CA43133	RIVER	0.5	0.25	7.1	7.31	1620	8.57	1610	15.2	41.3	2580	1870	1900	6.2626			
2/27/2020	9:50:00 AM	CA43140	Ten Mile River @ Central Ave.	CA43133	RIVER	0.5	0.27	8.2	7	1630	15	1610	75.5	23.8	2590	1910	1950	2.8283			
2/27/2020	9:50:00 AM	CA43141	Ten Mile River @ Central Ave. (Duplicate)	CA43133	RIVER	0.5	0.27	8.2	7	1620	14.9	1610	73.1	23.7	2570	1920	2070	10.515			
3/11/2020	10:00:00 AM	CA44080	Phillipsdale Landing Surface	CA44070	BAY	0.5	11.85	8.4	7.61	NR	NR	NR	NR	NR	NR	NR	NR	12.917	3.4851	3.3933	
3/11/2020	10:15:00 AM	CA44081	Phillipsdale Landing Bottom	CA44070	BAY	3.25	24.48	6.94	7.81	NR	NR	NR	NR	NR	NR	NR	NR	33.333			
3/11/2020	9:50:00 AM	CA44082	Nutrient Blank	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR				
3/11/2020	9:10:00 AM	CA44083	Conimicut Point Surface	CA44082	BAY	0.5	26.7	7.24	7.82	NR	NR	NR	NR	NR	NR	NR	NR	29.278	6.2757	4.9332	
3/11/2020	9:12:00 AM	CA44084	Conimicut Point Bottom	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR	31.789			
3/11/2020	2:10:00 PM	CA44085	Edgewood Yacht Club Surface	CA44082	BAY	0.5	24.45	6.76	7.9	NR	NR	NR	NR	NR	NR	NR	NR	30.769	6.039	2.4208	
3/11/2020	2:10:00 PM	CA44086	Edgewood Yacht Club Surface (Duplicate)	CA44082	BAY	0.5	24.45	6.76	7.9	NR	NR	NR	NR	NR	NR	NR	NR	31.158	9.8517	3.7488	
3/11/2020	2:15:00 PM	CA44087	Edgewood Yacht Club Bottom	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR	33.261			
3/11/2020	10:10:00 AM	CA44088	Pomham Rocks Surface	CA44082	BAY	0.5	22.92	7.82	7.66	NR	NR	NR	NR	NR	NR	NR	NR	29.677	9.3282	3.4329	
3/11/2020	10:15:00 AM	CA44089	Pomham Rocks Bottom	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR	30.833			
3/11/2020	12:55:00 PM	CA44090	India Point Park Surface	CA44082	BAY	0.5	20.54	7.68	7.78	NR	NR	NR	NR	NR	NR	NR	NR	25.161	6.285	3.0591	
3/11/2020	1:00:00 PM	CA44091	India Point Park Bottom	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR	28.222			
3/11/2020	9:26:00 AM	CA44092	Bullock Reach Buoy Surface	CA44082	BAY	0.5	27.11	7.16	7.66	NR	NR	NR	NR	NR	NR	NR	NR	33.333	6.0135	2.4362	
3/11/2020	9:30:00 AM	CA44093	Bullock Reach Buoy Bottom	CA44082	BAY					NR	NR	NR	NR	NR	NR	NR	NR	29.053			
3/11/2020	1:45:00 PM	CA44094	Pawtuxet Cove Surface	CA44082	BAY	0.5	6.69	9.66	7.43	NR	NR	NR	NR	NR	NR	NR	NR	13.043			

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)					
3/11/2020	2:45:00 PM	CA44072	Pawtuxet River @ Broad St.	CA44070	RIVER	0.43	0.16	10.21	7.03	NR	NR	NR	NR	NR	NR	NR	NR	<2.0000				
3/11/2020	1:20:00 PM	CA44073	Woonasquatucket River @ Valley St.	CA44070	RIVER	0.502	0.2	11.33	7.53	NR	NR	NR	NR	NR	NR	NR	NR	<2.0000				
3/11/2020	1:00:00 PM	CA44074	Woonasquatucket River @ Manton Ave. Bridge	CA44070	RIVER	0.503	0.18	11.72	7.4	NR	NR	NR	NR	NR	NR	NR	<2.0000					
3/11/2020	1:45:00 PM	CA44075	Moshassuck River @ Footbridge at Mill St.	CA44070	RIVER	0.32	0.29	11.33	7.49	NR	NR	NR	NR	NR	NR	NR	<2.0000					
3/11/2020	9:15:00 AM	CA44076	Moshassuck River @ Higginson Ave.	CA44070	RIVER					NR	NR	NR	NR	NR	NR	NR	NR	<2.0000				
3/11/2020	9:15:00 AM	CA44077	Moshassuck River @ Higginson Ave. (Duplicate)	CA44070	RIVER					NR	NR	NR	NR	NR	NR	NR	NR	2				
3/11/2020	10:30:00 AM	CA44078	Ten Mile River @ Roger Williams Ave.	CA44070	RIVER	0.52	0.24	8.59	7.65	NR	NR	NR	NR	NR	NR	NR	NR	5.9574				
6/2/2020	8:35:00 AM	CA49437	Bullock Reach Buoy Surface		BAY														2.7234	1.1868		
6/2/2020	8:35:00 AM	CA49438	Bullock Reach Buoy Surface (Duplicate)		BAY														2.6828	1.3797		
6/2/2020	8:40:00 AM	CA49439	Bullock Reach Buoy Middle		BAY														5.0919	2.9435		
6/2/2020	8:40:00 AM	CA49440	Bullock Reach Buoy Middle (Duplicate)		BAY														3.0726	1.694		
6/2/2020	8:45:00 AM	CA49441	Bullock Reach Buoy Bottom		BAY														2.4916	1.3081		
6/2/2020	8:45:00 AM	CA49442	Bullock Reach Buoy Bottom (Duplicate)		BAY														2.4916	1.3081		
6/3/2020	11:05:00 AM	CA49660	Nutrient Blank	CA49660	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000		5.6001	3.3441		
6/3/2020	10:30:00 AM	CA49661	Blackstone River @ Slater Mill	CA49660	RIVER	1.15	0.23	19.8	8.07	806	10.8	795	38.1	13.8	2240	1080	1120	<2.0000				
6/3/2020	10:30:00 AM	CA49662	Blackstone River @ Slater Mill (Duplicate)	CA49660	RIVER	1.15	0.23	19.8	8.07	810	10.8	799	44.4	12.1	2240	1210	1080	<2.0000				
6/3/2020	8:00:00 AM	CA49663	Pawtuxet River @ Broad St.	CA49660	RIVER	0.94	1.82	18.02	7.41	855	6.17	849	37.7	<5.0	2110	1040	1100	<2.0000				
6/3/2020	11:55:00 AM	CA49664	Woonasquatucket River @ Valley St.	CA49660	RIVER	0.24	0.2	18.8	7.7	927	6.36	921	20.6	<5.0	2030	1200	1160	<2.0000				
6/3/2020	11:30:00 AM	CA49665	Moshassuck River @ Footbridge at Mill St.	CA49660	RIVER	0.35	0.28	17.1	7.66	682	21.6	660	79.9	<5.0	3750	946	943	4.3011				
6/3/2020	8:45:00 AM	CA49666	Ten Mile River @ Roger Williams Ave.	CA49660	RIVER	1.21	0.23	19.3	7.85	664	17.1	647	59.3	26.1	1210	1210	1110	3.8298				
6/3/2020	9:35:00 AM	CA49667	Taunton River @ Berkley Bridge	CA49660	RIVER	1.03	3.69	20.1	7.13	624	7.89	616	42.3	39.3	1680	1140	1030	8.9362				
6/3/2020	10:55:00 AM	CA49668	Moshassuck River @ Higginson Ave.	CA49660	RIVER	0.64	0.23	19.1	7.62	246	15.2	231	88.9	9.73	2770	623	627	3.4783				
6/9/2020	12:40:00 PM	CA49919	Phillipsdale Landing Surface		BAY														33.234	4.2024		
6/9/2020	12:40:00 PM	CA49920	Phillipsdale Landing Surface (Duplicate)		BAY														48.354	5.4156		
6/9/2020	12:45:00 PM	CA49921	Phillipsdale Landing Bottom		BAY														3.909	1.0626		
6/9/2020	12:45:00 PM	CA49922	Phillipsdale Landing Bottom (Duplicate)		BAY														5.6247	2.1189		
6/16/2020	10:20:00 AM	CA50396	Bullock Reach Buoy Surface		BAY														10.346	2.4766		
6/16/2020	10:20:00 AM	CA50397	Bullock Reach Buoy Surface (Duplicate)		BAY														11.179	2.6996		
6/16/2020	10:25:00 AM	CA50398	Bullock Reach Buoy Middle		BAY														10.267	3.222		
6/16/2020	10:25:00 AM	CA50399	Bullock Reach Buoy Middle (Duplicate)		BAY														14.56	4.7916		
6/16/2020	10:30:00 AM	CA50400	Bullock Reach Buoy Bottom		BAY														2.3335	1.2367		
6/16/2020	10:30:00 AM	CA50401	Bullock Reach Buoy Bottom (Duplicate)		BAY														2.992	1.4449		
6/17/2020	8:25:00 AM	CA50402	Nutrient Blank	CA50402	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
6/17/2020	8:45:00 AM	CA50405	Conimicut Point Surface	CA50402	BAY	0.5	25.46	19.3	8.07	7.63	<1.5	7.63	<7.000	<5.0	216	470	174	9.1667	11.02	2.6637		
6/17/2020	8:50:00 AM	CA50406	Conimicut Point Bottom	CA50402	BAY					10.4	<1.5	10.4	<7.000	12.5	212	382	176	12.609				
6/17/2020	10:10:00 AM	CA50407	Edgewood Yacht Club Surface	CA50402	BAY	0.5	25.55	20.09	8.15	<6.000	2.04	<6.0	<7.000	38	231	450	156	12.553	11.816	3.5028		
6/17/2020	10:15:00 AM	CA50408	Edgewood Yacht Club Bottom	CA50402	BAY					10.7	<1.5	10.7	<7.000	30.8	298	431	127	19.556				
6/17/2020	9:50:00 AM	CA50409	Pomham Rocks Surface	CA50402	BAY	0.5	24.98	19.34	8.12	<6.000	<1.5	<6.0	<7.000	32.7	411	448	139	10.444	10.219	2.8104		
6/17/2020	9:55:00 AM	CA50410	Pomham Rocks Bottom	CA50402	BAY					<6.000	<1.5	<6.0	<7.000	36.7	463	677	107	82.045				
6/17/2020	12:50:00 PM	CA50411	India Point Park Surface	CA50402	BAY	0.5	19.59	21.27	8.15	<6.000	<1.5	<6.0	<7.000	19.9	692	543	190	22.292	36.441	7.8825		
6/17/2020	12:55:00 PM	CA50412	India Point Park Bottom	CA50402	BAY					10	<1.5	10	<7.000	31.2	470	377	190	11.915				
6/17/2020	9:10:00 AM	CA50413	Bullock Reach Buoy Surface	CA50402	BAY	0.5	23.96	19.83	8.08	11.7	<1.5	11.7	<7.000	5.92	356	458	174	10	12.024	3.2268		
6/17/2020	9:10:00 AM	CA50414	Bullock Reach Buoy Surface (Duplicate)	CA50402	BAY	0.5	23.96	19.83	8.08	13.8	<1.5	13.8	<7.000	<5.0	379	507	174	11.364	13.918	3.2598		
6/17/2020	9:15:00 AM	CA50415	Bullock Reach Buoy Bottom	CA50402	BAY					<6.000	<1.5	<6.0	<7.000	21.1	422	395	119	21.163				
6/17/2020	10:30:00 AM	CA50416	Pawtuxet Cove Surface	CA50402	BAY	0.5	17.74	21.07	7.89	736	5.11	731	14.5	12	1860	1110	1180	5.1064	3.2319	1.6071		
6/17/2020	10:35:00 AM	CA50417	Pawtuxet Cove Bottom	CA50402	BAY					250	3.37	247	<7.000	22.8	923	773	540	23.636				
6/17/2020	1:25:00 PM	CA50418	Phillipsdale Landing Surface	CA50402	BAY	0.5	16.03	23.32	6.69	<6.000	<1.5	<6.0	<7.000	43.4	768	920	339	14.2886	54.681	11.818		
6/17/2020	1:30:00 PM	CA50419	Phillipsdale Landing Bottom	CA50402	BAY					6.47	<1.5	6.47	<7.000	45.8	758	611	199	15.581				
6/17/2020	2:20:00 PM	CA50420	Edgewood Shoal Surface	CA50402	BAY	0.5	24.4	21.83	8.2	20.7	1.54	19.2	<7.000	45.5	483	501	244	12.708	11.89	2.6421		
6/17/2020	2:25:00 PM	CA50421	Edgewood Shoal Bottom	CA50402	BAY					<6.000	<1.5	<6.0	<7.000	29.9	434	459	154	12.449				
6/23/2020	12:17:00 PM	CA50890	Phillipsdale Landing Surface		BAY														31.743	12.358		
6/23/2020	12:17:00 PM	CA50891	Phillipsdale Landing Surface (Duplicate)		BAY														12.983	5.4774		
6/23/2020	12:07:00 PM	CA50892	Phillipsdale Landing Bottom		BAY														6.5778	3.5076		
6/23/2020	12:07:00 PM	CA50893	Phillipsdale Landing Bottom		BAY														9.0246	6.0261		
6/30/2020	10:05:00 AM	CA51343	Bullock Reach Buoy Surface		BAY														17.886	4.5321		
6/30/2020	10:05:00 AM	CA51344	Bullock Reach Buoy Surface (Duplicate)		BAY														13.296	4.3482		
6/30/2020	10:10:00 AM	CA51345	Bullock Reach Buoy Middle		BAY														15.921	5.4417		
6/30/2020	10:10:00 AM	CA51346	Bullock Reach Buoy Middle (Duplicate)		BAY														11.924	3.7851		
6/30/2020	10:15:00 AM	CA51347	Bullock Reach Buoy Bottom		BAY														4.4889	11.859		
6/30/2020	10:15:00 AM	CA51348	Bullock Reach Buoy Bottom (Duplicate)		BAY														3.1278	9.3087		
7/1/2020	9:00:00 AM	CA51577	Nutrient Blank	CA51577	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
7/1/2020	9:15:00 AM	CA51578	Warren Reservoir/Kickemuit River	CA51577	RIVER	0.39	0.1	21.69	6.54	204	17.2	187	400	32.3	3090	1810	1270	26.889				
7/1/2020	8:15:00 AM	CA51579	Coles River @ Milford Rd.	CA51577	RIVER	0.33	0.09	22.84	7.84	320	22.9	297	80.7	52.8	3210	1530	1120	3.3333				
7/1/2020	9:40:00 AM	CA51580	Palmer River @ Rt. 6	CA51577	RIVER	0.39	0.1	21.69	6.5	62.9	3.35	59.5	30.5	14.3	1840	655	553	8.2979				
7/1/2020	10:00:00 AM	CA51581	Runnins River @ River Rd.	CA51577	RIVER	0.4	0.32	19.61	6.89	444	4.62	439	13.2	<5.0	4400	650	806	<2.0000				
7/1/2020	10:00:00 AM	CA51582	Runnins River @ River Rd. (Duplicate)	CA51577	RIVER	0.4	0.32	19.61	6.89	444	4.61	439	11.2	<5.0	4370	722	912	<2.0000				

Table 36: River and Bay Nutrients Data

*River and bay nutrient sampling was not conducted in April and May due to COVID-19.

**NR = Non-Reportable; analyzed out of hold time due to COVID-19.

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)					
7/1/2020	10:45:00 AM	CA51583	Ten Mile River @ Central Ave.	CA51577	RIVER	0.42	0.23	20.94	7.09	874	11.7	862	56.6	36.2	2990	1170	1330	3.2609				
7/1/2020	11:45:00 AM	CA51584	Woonasquatucket River @ Mantone Ave. Bridge	CA51577	RIVER	0.41	0.2	20.56	6.98	301	5.18	296	63.7	<5.0	1260	514	698	<2.0000				
7/7/2020	9:40:00 AM	CA52117	Phillipsdale Landing Surface		BAY														37.26	7.9419		
7/7/2020	9:40:00 AM	CA52118	Phillipsdale Landing Surface (Duplicate)		BAY														44.379	7.9983		
7/7/2020	9:45:00 AM	CA52119	Phillipsdale Landing Bottom		BAY														28.813	10.037		
7/7/2020	9:45:00 AM	CA52120	Phillipsdale Landing Bottom (Duplicate)		BAY														5.1174	3.7134		
7/9/2020	12:45:00 PM	CA52216	South Pawtuxet Cove Surface		BAY														5.5986	1.0088		
7/9/2020	12:45:00 PM	CA52217	South Pawtuxet Cove Surface (Duplicate)		BAY														32.58	4.5135		
7/14/2020	8:55:00 AM	CA52375	Bullock Reach Buoy Surface		BAY														9.4104	3.246		
7/14/2020	8:57:00 AM	CA52376	Bullock Reach Buoy Middle		BAY														2.3376	1.0566		
7/14/2020	9:00:00 AM	CA52377	Bullock Reach Buoy Bottom		BAY														7.4235	3.2868		
7/14/2020	8:55:00 AM	CA52378	Bullock Reach Buoy Surface (Duplicate)		BAY														8.5713	2.612		
7/15/2020	9:30:00 AM	CA52542	Nutrient Blank		BAY					8.89	<1.5	8.89	<7.000	<5.0	<20.000	<200.000	<100.000					
7/15/2020	7:47:00 AM	CA52543	Cominicut Point Surface	CA52542	BAY	0.5	23.94	25.22	8.03	<6.000	<1.5	<6.0	<7.000	48.1	319	568	206	8.6021	16.441	6.6405		
7/15/2020	10:40:00 AM	CA52544	Edgewood Yacht Club Surface	CA52542	BAY	0.5	25.51	24.06	7.67	15.1	<1.5	15.1	7.7	87.7	644	516	228	8.7234	4.1922	1.6629		
7/15/2020	10:40:00 AM	CA52545	Edgewood Yacht Club Surface (Duplicate)	CA52542	BAY	0.5	25.51	24.06	7.67	<6.000	<1.5	<6.0	<7.000	86.4	643	524	189	7.6923	11.139	4.8738		
7/15/2020	8:50:00 AM	CA52546	Pomham Rocks Surface	CA52542	BAY	0.5	23.1	24.08	7.61	45.9	5.19	40.7	47.6	102	817	585	337	7.3684	6.552	2.0019		
7/15/2020	9:15:00 AM	CA52547	India Point Park Surface	CA52542	BAY	0.5	20.4	24.01	7.47	79.8	5.93	73.9	87.4	119	1560	765	481	7.234	8.0265	1.9977		
7/15/2020	8:10:00 AM	CA52548	Bullock Reach Buoy Surface	CA52542	BAY	0.5	24.24	24.62	7.72	51.5	2.96	48.5	15.3	93.8	723	630	265	7.835	3.5472	1.333		
7/15/2020	8:15:00 AM	CA52549	Bullock Reach Buoy Bottom	CA52542	BAY	6.75	30.9	21.92	7.48	12.8	3.92	8.88	69.4	55.1	908	416	299	11.011				
7/15/2020	8:35:00 AM	CA52550	Pawtuxet Cove Surface	CA52542	BAY	0.5	8.99	24.38	7.29	1100	16.4	1080	97.7	35	1550	1640	1530	4.2553	6.8274	3.4755		
7/15/2020	9:50:00 AM	CA52551	Phillipsdale Landing Surface	CA52542	BAY	0.5	13.11	25	7.94	97.9	6.99	90.9	<7.000	152	1970	1550	481	8.4536	319.71	50.673		
7/15/2020	9:55:00 AM	CA52552	Phillipsdale Landing Bottom	CA52542	BAY	4.4	27.17	23.34	7.2	27.1	13	14.1	157	179	1270	582	396	7.1429				
7/15/2020	9:30:00 AM	CA52553	Nutrient Blank	CA52553	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
7/15/2020	11:05:00 AM	CA52554	Blackstone River @ Slater Mill	CA52553	RIVER	0.25	0.385	25.209	7.26	638	5.76	632	39.1	18.2	1950	830	1000	<2.0000				
7/15/2020	7:50:00 AM	CA52555	Pawtuxet River @ Broad St.	CA52553	RIVER	0.56	0.2	24.286	7.96	1710	28.1	1680	176	5.64	2220	2300	2460	<2.0000				
7/15/2020	12:45:00 AM	CA52556	Woonasquatucket River @ Valley St.	CA52553	RIVER	0.57	0.17	23.165	7.28	683	8.97	674	41.9	5.86	1840	816	966	<2.0000				
7/15/2020	1:10:00 AM	CA52557	Moshassuck River @ Footbridge at Mill St.	CA52553	RIVER	0.34	0.22	20.33	7.08	598	10.7	587	50.8	5.63	4090	801	931	<2.0000				
7/15/2020	10:35:00 AM	CA52558	Ten Mile River @ Roger Williams Ave.	CA52553	RIVER	0.51	0.23	25.52	6.19	123	3.12	120	50.9	32.6	1350	561	614	2.8571				
7/15/2020	9:10:00 AM	CA52559	Taunton River @ Berkley Bridge	CA52553	RIVER	0.59	0.8	25.35	6.64	816	12.5	803	81.6	97.2	3640	1320	1430	5.4118				
7/15/2020	9:10:00 AM	CA52560	Taunton River @ Berkley Bridge (Duplicate)	CA52553	RIVER	0.59	0.8	25.35	6.64	798	12.7	785	81.3	101	3590	1410	1340	4.5783				
7/15/2020	11:30:00 AM	CA52561	Moshassuck River @ Higginson Ave.	CA52553	RIVER	0.51	0.24	18.92	6.81	470	10.1	460	60.1	11.7	4980	821	784	2.3529				
7/15/2020	12:25:00 AM	CA52562	Woonasquatucket River @ Mantone Ave. Bridge	CA52553	RIVER	0.51	0.13	23.7	6.81	511	11.7	499	63.1	8.92	1230	879	856	<2.0000				
7/21/2020	10:20:00 AM	CA53074	Phillipsdale Landing Surface		BAY														23.809	3.6501		
7/21/2020	10:25:00 AM	CA53075	Phillipsdale Landing Bottom		BAY														11.882	4.1079		
7/21/2020	10:20:00 AM	CA53076	Phillipsdale Landing Surface (Duplicate)		BAY														37.653	5.3613		
7/22/2020	8:00:00 AM	CA53091	South Pawtuxet Cove Surface		BAY														16.354	2.3167		
7/28/2020	8:40:00 AM	CA53495	Bullock Reach Buoy Surface		BAY														5.6373	7.0323		
7/28/2020	8:45:00 AM	CA53496	Bullock Reach Buoy Middle		BAY														1.8471	12.99		
7/28/2020	8:50:00 AM	CA53497	Bullock Reach Buoy Bottom		BAY														7.8771	3.6378		
7/28/2020	8:45:00 AM	CA53498	Bullock Reach Buoy Middle (Duplicate)		BAY														9.2169	3.3918		
7/29/2020	7:40:00 AM	CA53203	Nutrient Blank	CA53203	RIVER					<6.000	<1.5	<6.0	8.05	<5.0	<20.000	<200.000	<100.000					
7/29/2020	8:25:00 AM	CA53204	Blackstone River @ Slater Mill	CA53203	RIVER	0.529	0.28	27.52	7.11	550	6.62	543	<7.000	17.3	1540	957	1010	<2.0000				
7/29/2020	10:10:00 AM	CA53205	Blackstone River @ Stateline	CA53203	RIVER	0.521	0.24	26.694	7.44	500	5.69	494	<7.000	18.4	1570	840	885	<2.0000				
7/29/2020	9:10:00 AM	CA53206	Blackstone River @ Bikepath Bridge	CA53203	RIVER	0.514	0.29	27.428	7.41	669	6.38	663	<7.000	23.5	1420	1120	1010	12.308				
7/29/2020	7:30:00 AM	CA53207	Pawtuxet River @ Broad St.	CA53203	RIVER	0.443	0.21	26.123	6.66	1300	19.4	1280	48.5	5.16	2120	1760	1750	<2.0000				
7/29/2020	1:45:00 PM	CA53208	Woonasquatucket River @ Valley St.	CA53203	RIVER	0.266	0.23	25.84	7.38	663	5.36	658	<7.000	<5.0	1850	837	889	<2.0000				
7/29/2020	1:45:00 PM	CA53209	Woonasquatucket River @ Valley St. (Duplicate)	CA53203	RIVER	0.266	0.23	25.84	7.38	663	5.36	658	<7.000	<5.0	1850	851	883	<2.0000				
7/29/2020	1:15:00 PM	CA53210	Moshassuck River @ Footbridge at Mill St.	CA53203	RIVER	0.121	0.24	23.71	7.1	599	14.2	585	<7.000	<5.0	4160	821	897	<2.0000				
7/29/2020	12:45:00 PM	CA53211	Moshassuck River @ Higginson Ave.	CA53203	RIVER	0.17	0.24	23.11	6.87	318	3.93	314	<7.000	13	4280	582	579	<2.0000				
7/29/2020	10:00:00 AM	CA53212	Nutrient Blank	CA53212	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
7/29/2020	12:55:00 PM	CA53213	Warren Reservoir/Kickemuit River	CA53212	RIVER	0.5	4.7	27.61	7.07	23.6	2.66	20.9	111	39.5	350	2070	955	30				
7/29/2020	2:10:00 PM	CA53214	Coles River @ Milford Rd.	CA53212	RIVER	0.5	0.14	20.6	6.27	1280	10.2	1270	<7.000	8.87	1920	1550	1560	<2.0000				
7/29/2020	1:15:00 PM	CA53215	Palmer River @ Rt. 6	CA53212	RIVER	0.5	20.42	29.69	7.3	<6.000	<1.5	<6.0	7.01	12.8	116	934	524	11.522				
7/29/2020	1:30:00 PM	CA53216	Runnins River @ River Rd.	CA53212	RIVER	0.5	0.42	23.97	6.9	366	22.7	343	39.9	11.2	3970	887	891	<2.0000				
7/29/2020	8:00:00 AM	CA53217	Taunton River @ Berkley Bridge	CA53212	RIVER	0.5	5.47	27.15	7.5	470	10.5	459	14.8	39.1	735	1560	970	34.043				
7/29/2020	9:00:00 AM	CA53218	Ten Mile River @ Roger Williams Ave.	CA53212	RIVER	0.5	0.25	26.62	7.38	228	5.43	223	<7.000	49.8	1700	654	656	<2.0000				
7/29/2020	9:00:00 AM	CA53219	Ten Mile River @ Roger Williams Ave. (Duplicate)	CA53212	RIVER	0.5	0.25	26.62	7.38	228	5.3	223	13.3	48.1	1900	645	697	<2.0000				
7/29/2020	9:50:00 AM	CA53220	Ten Mile River @ Central Ave.	CA53212	RIVER	0.5	0.31	23.77	7.43	1210	6.45	1200	10.3	40.8	2500	1530	1710	<2.0000				
8/4/2020	12:00:00 AM	CA53750	Phillipsdale Landing Surface		BAY														54.435	8.466		
8/4/2020	11:05:00 AM	CA53751	Phillipsdale Landing Bottom		BAY														40.944	5.979		
8/4/2020	11:05:00 AM	CA53752	Phillipsdale Landing Bottom (Duplicate)		BAY														33.687	14.426		
8/5/2020	8:45:00 AM	CA53753	South Pawtuxet Cove Surface		BAY														8.0826	4.3548		
8/12/2020	8:15:00 AM	CA54532	Bullock Reach Buoy Surface		BAY														102.24	9.5232		
8/12/2020	8:20:00 AM	CA54533	Bullock Reach Buoy Middle		BAY														66.948	6.6696		
8/12/2020	8:30:00 AM	CA54534	Bullock Reach Buoy Bottom		BAY														72.372	5.8829		

Table 36: River and Bay Nutrients Data

*River and bay nutrient sampling was not conducted in April and May due to COVID-19.

**NR = Non-Reportable; analyzed out of hold time due to COVID-19.

**River and Bay Nutrients Data
2020**

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**													
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)	TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)			
8/12/2020	8:30:00 AM	CA54535	Bullock Reach Buoy Bottom (Duplicate)		BAY																48.804	7.6383	
8/13/2020	8:45:00 AM	CA54305	Nutrient Blank	CA54305	BAY																		
8/13/2020	8:00:00 AM	CA54306	Conimicut Point Surface	CA54305	BAY	0.5	28.03	27.09	7.92	<6.000	<1.5	<6.0	10.6	89.8	1050	3770	489	15.842	192.9	19.366			
8/13/2020	8:05:00 AM	CA54307	Conimicut Point Bottom	CA54305	BAY					8.7	<1.5	8.7	8.63	64.1	1190	556	203	14.737					
8/13/2020	1:20:00 PM	CA54308	Edgewood Yacht Club Surface	CA54305	BAY	0.5	25.18	25.52	8.34	<6.000	<1.5	<6.0	14.5	167	924	6820	592	93.469	423.21	29.263			
8/13/2020	1:25:00 PM	CA54309	Edgewood Yacht Club Bottom	CA54305	BAY	4.7	29.1	25.99	7.5	10.5	1.78	8.72	29.6	115	1060	572	634	18.586					
8/13/2020	9:00:00 AM	CA54310	Pomham Rocks Surface	CA54305	BAY	0.5	26.12	27.49	7.79	<6.000	<1.5	<6.0	<7.000	128	1070	1170	358	47.083	83.166	14.145			
8/13/2020	9:05:00 AM	CA54311	Pomham Rocks Bottom	CA54305	BAY	3.4	28.02	26.65	7.76	<6.000	<1.5	<6.0	13.7	118	1280	685	264	18.316					
8/13/2020	10:30:00 AM	CA54312	India Point Park Surface	CA54305	BAY	0.5	24.76	27.32	7.68	<6.000	<1.5	<6.0	8.71	101	861	974	354	14.343	35.532	6.6684			
8/13/2020	10:35:00 AM	CA54313	India Point Park Bottom	CA54305	BAY	4.4	28.01	26.42	7.4	<6.000	1.96	<6.0	29.2	141	1050	430	288	12.5					
8/13/2020	8:30:00 AM	CA54314	Bullock Reach Buoy Surface	CA54305	BAY	0.5	26.94	27.38	7.95	<6.000	<1.5	<6.0	8.03	95.7	1070	846	283	93.737	18.874	4.2729			
8/13/2020	8:35:00 AM	CA54315	Bullock Reach Buoy Bottom	CA54305	BAY	6.5	26.96	25.52	7.43	<6.000	<1.5	<6.0	8.01	87.3	1500	719	181	99.149					
8/13/2020	1:00:00 PM	CA54316	Pawtuxet Cove Surface	CA54305	BAY	0.5	16.04	27.42	7.93	460	5.67	454	9.73	56.3	1550	1180	829	8.4536	26.078	4.7076			
8/13/2020	1:05:00 PM	CA54317	Pawtuxet Cove Bottom	CA54305	BAY	2.8	26.07	27.62	8.07	60.2	3.06	57.1	15	111	1580	1010	330	22.178					
8/13/2020	9:45:00 AM	CA54318	Phillipsdale Landing Surface	CA54305	BAY	0.5	12.32	27.11	8.21	<6.000	<1.5	<6.0	<7.000	111	1220	1250	431	13.895	82.404	10.858			
8/13/2020	9:45:00 AM	CA54319	Phillipsdale Landing Surface (Duplicate)	CA54305	BAY	0.5	12.32	27.11	8.21	<6.000	<1.5	<6.0	<7.000	97.6	944	1290	336	13.696	51.579	7.1127			
8/13/2020	9:50:00 AM	CA54320	Phillipsdale Landing Bottom	CA54305	BAY	4.2	25.37	27.39	7.37	12.5	3.37	9.13	42	212	969	3390	372	32.857					
8/13/2020	1:35:00 PM	CA54321	Edgewood Shoal Surface	CA54305	BAY	0.5	25.38	25.69	8.21	<6.000	1.53	<6.0	10.1	151	976	1840	573	9.7917	95.148	11.903			
8/13/2020	1:40:00 PM	CA54322	Edgewood Shoal Bottom	CA54305	BAY	5.2	28.75	26.25	7.44	<6.000	<1.5	<6.0	16.9	148	1140	645	508	4.1237					
8/19/2020	1:40:00 PM	CA54756	South Pawtuxet Cove Surface		BAY																47.853	1.3752	
8/20/2020	10:00:00 AM	CA54753	Phillipsdale Landing Surface		BAY																19.607	5.1045	
8/20/2020	10:10:00 AM	CA54754	Phillipsdale Landing Bottom		BAY																7.2663	4.2567	
8/20/2020	10:00:00 AM	CA54755	Phillipsdale Landing Surface (Duplicate)		BAY																16.625	4.1343	
8/25/2020	10:15:00 AM	CA55188	Bullock Reach Buoy Surface		BAY																8.3235	2.2819	
8/25/2020	10:20:00 AM	CA55189	Bullock Reach Buoy Middle		BAY																8.2266	1.7192	
8/25/2020	10:25:00 AM	CA55190	Bullock Reach Buoy Bottom		BAY																7.3812	1.8425	
8/25/2020	10:15:00 AM	CA55191	Bullock Reach Buoy Surface (Duplicate)		BAY																3.6141	4.7886	
8/26/2020	11:00:00 AM	CA55411	Nutrient Blank	CA55411	RIVER																		
8/26/2020	8:45:00 AM	CA55412	Blackstone River @ Slater Mill	CA55411	RIVER	0.29	0.18	24	7.63	787	5	782	28	21	1570	1140	1130	<2.0000					
8/26/2020	10:40:00 AM	CA55413	Blackstone River @ Stateline	CA55411	RIVER	0.38	0.28	23.09	7.46	810	22.4	788	148	44.1	1540	1440	1320	<2.0000					
8/26/2020	9:35:00 AM	CA55414	Blackstone River @ Bikepath Bridge	CA55411	RIVER	0.34	0.33	23.86	7.82	848	6.89	841	34.8	26.8	1200	1250	1240	<2.0000					
8/26/2020	9:35:00 AM	CA55415	Blackstone River @ Bikepath Bridge (Duplicate)	CA55411	RIVER	0.34	0.33	23.86	7.82	842	6.59	835	37.4	25.2	1210	1250	1250	<2.0000					
8/26/2020	2:20:00 PM	CA55416	Pawtuxet River @ Broad St.	CA55411	RIVER	0.57	27.88	24.94	7.48	37.5	1.74	35.8	55.1	117	1590	699	286	26.458					
8/26/2020	12:35:00 PM	CA55417	Woonasquatucket River @ Valley St.	CA55411	RIVER	0.264	0.3	21.29	7.58	904	3.67	900	<7.000	<5.0	2670	1090	1090	<2.0000					
8/26/2020	12:15:00 PM	CA55418	Woonasquatucket River @ Manton Ave. Bridge	CA55411	RIVER	0.2	0.23	22.22	7.19	621	4.13	617	15.2	<5.0	1210	847	881	<2.0000					
8/26/2020	1:05:00 PM	CA55419	Moshassuck River @ Footbridge at Mill St.	CA55411	RIVER	0.238	0.33	19.99	7.57	737	7.45	730	11.3	<5.0	5460	876	940	<2.0000					
8/26/2020	1:45:00 PM	CA55420	Nutrient Blank	CA55420	RIVER																		
8/26/2020	10:15:00 AM	CA55421	Warren Reservoir/Kickemuit River	CA55420	RIVER	0.571	10.98	25.27	6.8	<6.000	<1.5	<6.0	161	50.3	134	1640	1030	6.5979					
8/26/2020	9:30:00 AM	CA55422	Coles River @ Milford Rd.	CA55420	RIVER	0.501	0.16	19.94	6.86	291	6.66	283	85.2	10.3	1840	953	889	3.3333					
8/26/2020	9:30:00 AM	CA55423	Coles River @ Milford Rd. (Duplicate)	CA55420	RIVER	0.501	0.16	19.94	6.86	306	7.97	299	128	8.55	2240	978	874	3.5789					
8/26/2020	10:45:00 AM	CA55424	Palmer River @ Rt. 6	CA55420	RIVER	0.561	25.93	24.62	7.12	<6.000	<1.5	<6.0	7.23	<5.0	545	1350	400	42.581					
8/26/2020	11:10:00 AM	CA55425	Runnins River @ River Rd.	CA55420	RIVER	0.441	7.5	22.62	6.61	386	4.62	381	38.7	<5.0	5290	696	668	5.1064					
8/26/2020	9:00:00 AM	CA55426	Taunton River @ Berkley Bridge	CA55420	RIVER	0.511	1.54	24.32	7.37	1050	8.23	1040	45.6	141	1610	1910	1510	10.816					
8/26/2020	12:45:00 PM	CA55427	Ten Mile River @ Roger Williams Ave.	CA55420	RIVER	0.519	0.32	24.06	7.54	200	4.47	196	49.4	29.4	1570	638	601	<2.0000					
8/26/2020	1:30:00 PM	CA55428	Ten Mile River @ Central Ave.	CA55420	RIVER	0.42	0.036	21.55	7.49	1500	4.93	1500	22.5	20.4	1900	1980	1890	<2.0000					
8/26/2020	2:10:00 PM	CA55429	Moshassuck River @ Higginson Ave.	CA55420	RIVER	0.41	0.25	18.08	7.17	441	5.57	435	56.6	6.9	5230	671	686	<2.0000					
9/1/2020	10:00:00 AM	CA55670	Phillipsdale Landing Surface		BAY																12.932	2.5837	
9/1/2020	10:05:00 AM	CA55671	Phillipsdale Landing Bottom		BAY																9.8904	2.6804	
9/1/2020	10:05:00 AM	CA55672	Phillipsdale Landing Bottom (Duplicate)		BAY																9.435	2.6684	
9/3/2020	11:00:00 AM	CA55990	South Pawtuxet Cove Surface		BAY																7.9854	2.2129	
9/9/2020	9:05:00 AM	CA56433	Bullock Reach Buoy Surface		BAY																22.391	4.3575	
9/9/2020	9:10:00 AM	CA56434	Bullock Reach Buoy Middle		BAY																10.014	2.4361	
9/9/2020	9:10:00 AM	CA56435	Bullock Reach Buoy Middle (Duplicate)		BAY																12.694	3.6183	
9/9/2020	9:15:00 AM	CA56436	Bullock Reach Buoy Bottom		BAY																11.3	3.2745	
9/10/2020	9:15:00 AM	CA56415	Phillipsdale Landing Surface	CA56406	BAY	0.5	22.4	23.9	7.59	14.1	4.56	9.54	113	141	1050	661	346	10.417	27.478	5.5821			
9/10/2020	9:20:00 AM	CA56416	Phillipsdale Landing Bottom	CA56406	BAY	1.5	26.02	23.7	7.32	16.3	5.56	10.7	154	163	1240	653	386	12.165					
9/10/2020	9:15:00 AM	CA56417	Nutrient Blank	CA56417	BAY																		
9/10/2020	8:00:00 AM	CA56418	Conimicut Point Surface	CA56417	BAY	0.5	28.3	23.41	7.79	<6.000	<1.5	<6.0	23.1	81.4	1090	657	187	8.9362	29.445	4.776			
9/10/2020	8:05:00 AM	CA56419	Conimicut Point Bottom	CA56417	BAY					<6.000	<1.5	<6.0	17.1	78.6	1140	421	217	6.5263					
9/10/2020	9:00:00 AM	CA56422	Pomham Rocks Surface	CA56417	BAY	0.5	26.14	23.89	7.9	<6.000	<1.5	<6.0	9.93	160	773	517	258	9.5745	17.027	4.1673			
9/10/2020	9:05:00 AM	CA56423	Pomham Rocks Bottom	CA56417	BAY					<6.000	<1.5	<6.0	36.4	122	1100	481	205	6.5934					
9/10/2020	9:30:00 AM	CA56424	India Point Park Surface	CA56417	BAY	0.5	24.14	24.23	7.67	<6.000	<1.5	<6.0	7.72	89.8	849	650	216	9.2473	33.87	2.6426			
9/10/2020	9:35:00 AM	CA56425	India Point Park Bottom	CA56417	BAY					<6.000	<1.5	<6.0	19.6	100	970	465	245	7.234					
9/10/2020	8:30:00 AM	CA56426	Bullock Reach Buoy Surface	CA56417	BAY	0.5	27.41	25.52	7.84	<6.000	<1.5												

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)	TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
9/10/2020	10:05:00 AM	CA56432	Edgewood Shoal Bottom	CA56417	BAY					<6.000	<1.5	<6.0	8.87	118	964	475	210	7.3333		
9/10/2020	10:00:00 AM	CA56548	Edgewood Shoal Surface (Duplicate)	CA56417	BAY	0.5	26.27	23.52	7.97	<6.000	<1.5	<6.0	<7.000	137	750	705	223	2.7368	9.8112	2.8717
9/10/2020	9:30:00 AM	CA56406	Nutrient Blank	CA56406	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
9/10/2020	10:30:00 AM	CA56407	Blackstone River @ Slater Mill	CA56406	RIVER	0.5	0.31	23.07	7.78	865	5.3	860	40.2	16.9	1470	1120	1170	<2.0000		
9/10/2020	8:15:00 AM	CA56408	Pawtuxet River @ Broad St.	CA56406	RIVER	0.5	0.28	22.54	6.95	1470	3.7	1470	26.2	5.01	3090	1680	1740	<2.0000		
9/10/2020	1:30:00 PM	CA56409	Woonasquatucket River @ Valley St.	CA56406	RIVER	0.5	0.3	21.63	7.59	1050	3.33	1050	18.9	<5.0	2180	1180	1200	<2.0000		
9/10/2020	1:15:00 PM	CA56410	Woonasquatucket River @ Manton Ave. Bridge	CA56406	RIVER	0.5	0.24	22.54	7.18	775	4.38	771	19.4	<5.0	1030	932	986	<2.0000		
9/10/2020	2:00:00 PM	CA56411	Moshassuck River @ Footbridge at Mill St.	CA56406	RIVER	0.5	0.34	20.33	7.5	750	8.15	742	33	<5.0	5300	822	901	<2.0000		
9/10/2020	12:30:00 PM	CA56412	Moshassuck River @ Higginson Ave.	CA56406	RIVER	0.5	0.25	18.4	7.01	437	8.59	428	91.9	13.8	5080	671	722	<2.0000		
9/10/2020	12:30:00 PM	CA56413	Moshassuck River @ Higginson Ave. (Duplicate)	CA56406	RIVER	0.5	0.25	18.4	7.01	438	8.35	430	75.1	12.9	5000	679	725	<2.0000		
9/10/2020	8:55:00 AM	CA56414	Ten Mile River @ Roger Williams Ave.	CA56406	RIVER	0.5	0.33	23.5	7.18	331	6.61	324	49.5	30.7	1150	702	721	<2.0000		
9/15/2020	10:30:00 AM	CA56925	Phillipsdale Landing Surface		BAY														9.3939	5.0616
9/15/2020	10:30:00 AM	CA56926	Phillipsdale Landing Surface (Duplicate)		BAY														13.519	5.9544
9/15/2020	10:35:00 AM	CA56927	Phillipsdale Landing Bottom		BAY														6.9378	3.0912
9/16/2020	1:48:00 PM	CA56928	South Pawtuxet Cove Surface		BAY														5.9205	2.4088
9/22/2020	8:20:00 AM	CA57423	Bullock Reach Buoy Surface		BAY														7.5651	4.0404
9/22/2020	8:25:00 AM	CA57424	Bullock Reach Buoy Middle		BAY														<0.300	0.19012
9/22/2020	8:30:00 AM	CA57425	Bullock Reach Buoy Bottom		BAY														5.478	3.3726
9/22/2020	8:30:00 AM	CA57426	Bullock Reach Buoy Bottom (Duplicate)		BAY														5.1945	3.1419
9/23/2020	1:20:00 PM	CA57229	Nutrient Blank	CA57229	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
9/23/2020	9:35:00 AM	CA57230	Conimicut Point Surface	CA57229	BAY	0.5	30.01	17.1	7.6	<6.000	<1.5	<6.0	<7.000	73.3	690	434	187	26	6.7473	3.2175
9/23/2020	10:35:00 AM	CA57231	Edgewood Yacht Club Surface	CA57229	BAY	0.5	29.65	17.51	7.56	9.17	1.72	7.45	14	93.3	902	422	202	11.868	2.4197	1.1993
9/23/2020	10:00:00 AM	CA57232	Pomham Rocks Surface	CA57229	BAY	0.5	29.64	17.95	7.57	10.2	1.71	8.49	22.2	90.7	859	465	203	10.612	7.2087	3.2355
9/23/2020	1:35:00 PM	CA57233	India Point Park Surface	CA57229	BAY	0.5	30.03	18.96	7.53	9.14	<1.5	9.14	31.5	72.9	754	465	259	11.304	4.5003	1.9259
9/23/2020	8:20:00 AM	CA57234	Bullock Reach Buoy Surface	CA57229	BAY	0.5	29.73	17.08	7.58	8.6	<1.5	8.6	<7.000	82	810	469	225	29.072	7.872	3.4137
9/23/2020	1:55:00 PM	CA57235	Pawtuxet Cove Surface	CA57229	BAY	0.5	29.78	17.85	7.56	221	2.73	218	<7.000	72.2	1080	758	455	10.515	9.7467	3.5691
9/23/2020	1:55:00 PM	CA57236	Pawtuxet Cove Surface (Duplicate)	CA57229	BAY	0.5	23.98	17.85	7.56	219	3.08	216	<7.000	73.6	1270	724	444	34.043	9.6105	4.0482
9/23/2020	1:10:00 PM	CA57237	Phillipsdale Landing Surface	CA57229	BAY	0.5	22.21	17.81	7.98	<6.000	<1.5	<6.0	<7.000	78.3	879	924	256	28.372	50.217	4.6872
9/23/2020	10:15:00 AM	CA57238	Edgewood Shoal Surface	CA57229	BAY	0.5	29.64	17.44	7.56	<6.000	<1.5	<6.0	13.2	92.1	824	442	232	10.968	6.9468	3.2547
9/23/2020	10:20:00 AM	CA57239	Edgewood Shoal Bottom	CA57229	BAY					<6.000	1.77	<6.0	29.5	87.5	820	446	247	10.722		
9/23/2020	12:30:00 PM	CA57243	Nutrient Blank	CA57243	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
9/23/2020	8:15:00 AM	CA57244	Blackstone River @ Slater Mill	CA57243	RIVER	0.5	0.32		7.53	898	3.83	894	16.8	17.9	1110	1250	1300	3.8		
9/23/2020	10:00:00 AM	CA57245	Blackstone River @ Staline	CA57243	RIVER	0.5	0.32	13.41	7.73	1460	5.38	1450	<7.000	30.3	1260	1820	1870	2.6804		
9/23/2020	9:15:00 AM	CA57246	Blackstone River @ Bikepath Bridge	CA57243	RIVER	0.18	0.31	15.55	7.88	837	3.25	834	16.2	30.7	1290	1190	1240	<2.0000		
9/23/2020	11:00:00 AM	CA57247	Pawtuxet River @ Broad St.	CA57243	RIVER	0.5	28.32	17.95	7.54	14.6	2.27	12.3	41.7	106	973	516	252	10.638		
9/23/2020	2:30:00 PM	CA57248	Woonasquatucket River @ Valley St.	CA57243	RIVER	0.1	0.31	16.55	7.62	1250	2.18	1250	8.44	<5.0	2250	1380	1480	<2.0000		
9/23/2020	1:45:00 PM	CA57249	Moshassuck River @ Footbridge at Mill St.	CA57243	RIVER	0.2	0.35	15.56	7.77	1240	57.5	1180	416	<5.0	5400	1840	1920	<2.0000		
9/23/2020	1:45:00 PM	CA57250	Moshassuck River @ Footbridge at Mill St. (Duplicate)	CA57243	RIVER	0.2	0.35	15.56	7.77	1250	57.1	1190	456	<5.0	5300	1830	1930	<2.0000		
9/23/2020	1:00:00 PM	CA57251	Moshassuck River @ Higginson Ave.	CA57243	RIVER	0.25	0.27	15.49	7.47	481	6.12	475	50.5	10.5	5410	638	735	<2.0000		
9/23/2020	2:20:00 PM	CA57252	Nutrient Blank	CA57252	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
9/23/2020	11:15:00 AM	CA57253	Warren Reservoir/Kickemuit River	CA57252	RIVER	0.043	18.83	15.203	7.87	9.22	10.7	<6.0	229	82.9	207	1450	1050	10.549		
9/23/2020	10:40:00 AM	CA57254	Coles River @ Milford Rd.	CA57252	RIVER	0.496	0.13	11.964	6.7	444	3.94	440	24.5	11.5	1580	1070	893	7.4157		
9/23/2020	11:45:00 AM	CA57255	Palmer River @ Rt. 6	CA57252	RIVER	0.522	28.88	14.171	7.74	<6.000	<1.5	<6.0	<7.000	29.1	777	611	293	14.651		
9/23/2020	11:45:00 AM	CA57256	Palmer River @ Rt. 6 (Duplicate)	CA57252	RIVER	0.522	28.88	14.171	7.74	<6.000	<1.5	<6.0	<7.000	30	799	604	292	14.884		
9/23/2020	1:00:00 PM	CA57257	Runnins River @ River Rd.	CA57252	RIVER	0.511	16.22	15.142	6.75	150	4.2	146	183	<5.0	3450	933	685	16.471		
9/23/2020	9:50:00 AM	CA57258	Taunton River @ Berkley Bridge	CA57252	RIVER	0.517	14.05	15.323	7.82	551	11.1	540	15.2	117	1340	1320	956	8.6364		
9/23/2020	2:15:00 PM	CA57259	Ten Mile River @ Roger Williams Ave.	CA57252	RIVER	0.507	0.33	16.073	7.66	152	2.87	149	27.8	20.6	771	541	542	<2.0000		
9/23/2020	1:40:00 PM	CA57260	Ten Mile River @ Central Ave.	CA57252	RIVER	0.287	0.43	14.664	7.63	1800	4.15	1800	21	10.6	1820	2340	2460	<2.0000		
9/29/2020	10:40:00 AM	CA58016	Phillipsdale Landing Surface		BAY														61.806	5.8759
9/29/2020	10:45:00 AM	CA58017	Phillipsdale Landing Bottom		BAY														35.877	4.9206
9/29/2020	10:45:00 AM	CA58018	Phillipsdale Landing Bottom (Duplicate)		BAY														35.079	1.012
10/6/2020	9:30:00 AM	CA58320	Bullock Reach Buoy Surface		BAY														20.763	4.0098
10/6/2020	9:30:00 AM	CA58321	Bullock Reach Buoy Surface (Duplicate)		BAY														17.822	3.924
10/6/2020	9:40:00 AM	CA58322	Bullock Reach Buoy Middle		BAY														12.949	4.0491
10/6/2020	9:42:00 AM	CA58323	Bullock Reach Buoy Bottom		BAY														4.1412	1.7614
10/7/2020	10:55:00 AM	CA58514	Nutrient Blank	CA58514	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
10/7/2020	8:30:00 AM	CA58515	Conimicut Point Surface	CA58514	BAY	0.5	31.14	18.43	5.06	<6.000	2	<6.0	<7.000	62	749	331	174	4.6316	4.8582	1.8679
10/7/2020	8:30:00 AM	CA58516	Conimicut Point Surface (Duplicate)	CA58514	BAY	0.5	31.14	18.43	5.06	<6.000	1.52	<6.0	<7.000	61.2	748	334	198	10	4.6863	2.1533
10/7/2020	8:40:00 AM	CA58517	Conimicut Point Bottom	CA58514	BAY					<6.000	2.01	<6.0	13.7	62.8	788	362	237	16.842		
10/7/2020	10:15:00 AM	CA58518	Edgewood Yacht Club Surface	CA58514	BAY	0.5	22.91	19.09	4.98	11.7	2.44	9.26	21.2	77.9	831	443	229	10.112	9.8949	3.7953
10/7/2020	10:20:00 AM	CA58519	Edgewood Yacht Club Bottom	CA58514	BAY					11.2	2.62	8.58	21.5	82.4	828	446	209	23.516		
10/7/2020	9:30:00 AM	CA58520	Pomham Rocks Surface	CA58514	BAY	0.5	29.11	18.57	5.03	40.9	2.23	38.7	9.91	74.6	838	436	236	6.6	0.94665	9.9657
10/7/2020	9:35:00 AM	CA58521	Pomham Rocks Bottom	CA58514	BAY					16.2	2.12	14.1	<7.000	80.2	776	428	229	16.21		
10/7/2020	9:55:00 AM	CA58522	India Point Park Surface	CA58514	BAY	0.5	28.99	20.08	5.07	16.3	3.5	12.8	<7.000	76.6	781	483	225	11.579	19.702	4.9869
10/7/2020	10:00:00 AM	CA58523	India Point Park Bottom																	

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)					
10/7/2020	9:05:00 AM	CA58525	Bullock Reach Buoy Bottom	CA58514	BAY					6.64	2.44	<6.0	16.7	68	841	366	191	2.7957				
10/7/2020	10:40:00 AM	CA58526	Pawtuxet Cove Surface	CA58514	BAY	0.5	16.82	18.15	4.84	543	6.51	536	26.3	47.2	1560	893	841	3.1579	5.9283	2.8172		
10/7/2020	10:45:00 AM	CA58527	Pawtuxet Cove Bottom	CA58514	BAY					175	3.85	171	27.4	72	1120	526	418	2.3158				
10/7/2020	9:00:00 AM	CA58540	Phillipsdale Landing Surface	CA58531	BAY	0.47	24.77	18.91	7.62	<6.000	1.53	<6.0	<7.000	57	538	785	293	9.4845	54.831	10.273		
10/7/2020	9:05:00 AM	CA58541	Phillipsdale Landing Bottom	CA58531	BAY	2.11	25.53	19.19	7.76	15.8	3.26	12.5	<7.000	55.6	606	703	259	8.7234				
10/7/2020	12:45:00 PM	CA58531	Nutrient Blank	CA58531	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
10/7/2020	10:00:00 AM	CA58532	Blackstone River @ Slater Mill	CA58531	RIVER	0.421	0.35	16.97	8.26	1110	4.73	1110	15.3	11.4	809	1360	1510	<2.0000				
10/7/2020	2:40:00 PM	CA58533	Pawtuxet River @ Broad St.	CA58531	RIVER	0.531	28.54	14.31	7.45	1120	10.3	1110	23.5	7.97	2380	1420	1520	<2.0000				
10/7/2020	1:20:00 PM	CA58534	Woonasquatucket River @ Valley St.	CA58531	RIVER	0.491	0.36	16.91	7.54	676	1.84	674	<7.000	<5.0	1920	812	920	<2.0000				
10/7/2020	1:00:00 PM	CA58535	Woonasquatucket River @ Manton Ave. Bridge	CA58531	RIVER	0.411	0.17	16.88	7.62	542	3.16	539	<7.000	<5.0	1410	705	826	<2.0000				
10/7/2020	1:00:00 PM	CA58536	Woonasquatucket River @ Manton Ave. Bridge (Duplicate)	CA58531	RIVER	0.411	0.17	16.88	7.62	527	2.87	524	<7.000	<5.0	1480	720	814	<2.0000				
10/7/2020	10:45:00 AM	CA58537	Moshassuck River @ Footbridge at Mill St.	CA58531	RIVER	0.512	0.34	15.49	7.61	896	13.6	882	37.2	<5.0	5530	993	1120	<2.0000				
10/7/2020	10:20:00 AM	CA58538	Moshassuck River @ Higginson Ave.	CA58531	RIVER	0.483	0.26	14.58	7.49	439	7.43	432	48.7	10.2	5080	653	778	8.9583				
10/7/2020	10:30:00 AM	CA58645	Nutrient Blank	CA58645	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
10/7/2020	9:50:00 AM	CA58646	Warren Reservoir/Kickemuit River	CA58645	RIVER	0.38	20.37	17.63	7.09	652	4.97	<6.0	268	57.7	462	2540	1350	28.649				
10/7/2020	9:50:00 AM	CA58647	Warren Reservoir/Kickemuit River (Duplicate)	CA58645	RIVER	0.38	20.37	17.63	7.09	652	4.32	<6.0	240	51.6	390	2670	1270	35.5				
10/7/2020	12:45:00 PM	CA58648	Coles River @ Milford Rd.	CA58645	RIVER	0.488	0.14	14.074	7.16	151	5.86	145	<7.000	8.3	1870	677	622	3.5				
10/7/2020	1:25:00 PM	CA58649	Palmer River @ Rt. 6	CA58645	RIVER	0.512	30.04	17.678	7.77	<6.000	<1.5	<6.0	<7.000	23.4	666	557	264	9.5833				
10/7/2020	1:50:00 PM	CA58650	Runnins River @ River Rd.	CA58645	RIVER	0.534	11.17	17.089	7.1	234	2.5	231	49.2	<5.0	5680	606	489	10				
10/7/2020	9:10:00 AM	CA58651	Taunton River @ Berkley Bridge	CA58645	RIVER	0.5	13.21	17.73	7.52	672	13.2	659	111	120	1090	1470	1200	13.684				
10/7/2020	1:30:00 PM	CA58652	Ten Mile River @ Roger Williams Ave.	CA58645	RIVER	0.5	0.36	17.59	7.3	176	4.33	172	48	30	819	648	654	2.1053				
10/7/2020	2:40:00 PM	CA58653	Ten Mile River @ Central Ave.	CA58645	RIVER	0.249	0.42	17.081	7.66	1070	26.3	1040	2060	16.3	2570	3370	3530	<2.0000				
10/14/2020	10:50:00 AM	CA59177	Phillipsdale Landing Surface		BAY														25.899	3.1875		
10/14/2020	10:50:00 AM	CA59178	Phillipsdale Landing Surface (Duplicate)		BAY														17.367	2.8508		
10/14/2020	10:55:00 AM	CA59179	Phillipsdale Landing Bottom		BAY														19.596	2.5342		
10/15/2020	10:50:00 AM	CA59180	South Pawtuxet Cove Surface		BAY														3.531	1.0339		
10/20/2020	9:24:00 AM	CA59584	Bullock Reach Buoy Surface		BAY														7.4262	1.6321		
10/20/2020	9:27:00 AM	CA59585	Bullock Reach Buoy Middle		BAY														5.874	1.6025		
10/20/2020	9:27:00 AM	CA59586	Bullock Reach Buoy Middle (Duplicate)		BAY														5.5752	1.1879		
10/20/2020	9:29:00 AM	CA59587	Bullock Reach Buoy Bottom		BAY														2.294	0.80721		
10/21/2020	8:40:00 AM	CA59570	Nutrient Blank	CA59570	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
10/21/2020	8:55:00 AM	CA59571	Conimicut Point Surface	CA59570	BAY	0.5	24.84	16.45	7.71	140	7.41	133	82.6	85.6	1030	622	414	7.5269	18.859	5.564		
10/21/2020	10:20:00 AM	CA59572	Edgewood Yacht Club Surface	CA59570	BAY	0.5	23.99	17.04	7.64	148	8.61	139	96.5	109	971	644	484	7.8723	27.276	6.6011		
10/21/2020	10:05:00 AM	CA59573	Pomham Rocks Surface	CA59570	BAY	0.5	23.64	16.86	7.63	105	7.1	97.9	95.8	86.2	696	442	392	8.2474	14.287	6.5676		
10/21/2020	10:05:00 AM	CA59574	Pomham Rocks Surface (Duplicate)	CA59570	BAY	0.5	23.64	16.86	7.63	106	6.86	99.1	97.3	84.3	867	478	394	13.404	12.085	5.7655		
10/21/2020	1:30:00 PM	CA59575	India Point Park Surface	CA59570	BAY	0.5	25.71	17.41	7.63	109	7.32	102	104	81	1080	567	439	7.957	14.906	5.7088		
10/21/2020	9:20:00 AM	CA59576	Bullock Reach Buoy Surface	CA59570	BAY	0.5	24.71	16.59	7.68	162	8.16	154	97.2	93	1000	591	472	12	13.485	5.082		
10/21/2020	2:15:00 PM	CA59577	Pawtuxet Cove Surface	CA59570	BAY	0.5	8.6	16.39	7.26	381	12	369	92.3	63.6	1390	797	704	12.967	16.641	6.5392		
10/21/2020	12:55:00 PM	CA59578	Phillipsdale Landing Surface	CA59570	BAY	0.5	10.62	16.33	7.5	398	8.9	389	91.2	108	1380	825	766	3.7895	15.845	7.187		
10/21/2020	1:45:00 PM	CA59579	Edgewood Shoal Surface	CA59570	BAY	0.5	23.75	17.48	7.65	152	8.09	144	90.9	97.3	1200	590	458	6.1856	21.483	5.9623		
10/21/2020	1:50:00 PM	CA59580	Edgewood Shoal Bottom	CA59570	BAY					50.7	6.54	44.2	123	80	983	472	380	12				
10/21/2020	10:10:00 AM	CA59561	Nutrient Blank	CA59561	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
10/21/2020	8:30:00 AM	CA59562	Blackstone River @ Slater Mill	CA59561	RIVER	0.5	0.2	13.72	7.78	421	3.05	418	25.7	18.9	1590	663	690	<2.0000				
10/21/2020	10:00:00 AM	CA59563	Blackstone River @ Stateline	CA59561	RIVER	0.5	0.21	14.19	7.27	486	4.46	482	33.1	17.9	1530	732	773	2.1277				
10/21/2020	9:15:00 AM	CA59564	Blackstone River @ Bikepath Bridge	CA59561	RIVER	0.5	0.21	13.75	7.55	431	3.66	427	26.8	18.8	1560	662	739	<2.0000				
10/21/2020	2:30:00 PM	CA59565	Pawtuxet River @ Broad St.	CA59561	RIVER	0.5	4.22	15.53	7.24	947	16.2	931	65.4	<5.0	2810	1150	1270	<2.0000				
10/21/2020	2:30:00 PM	CA59566	Pawtuxet River @ Broad St. (Duplicate)	CA59561	RIVER	0.5	4.22	15.53	7.24	937	16.2	921	65	<5.0	2870	1170	1270	<2.0000				
10/21/2020	1:00:00 PM	CA59567	Woonasquatucket River @ Valley St.	CA59561	RIVER	0.5	0.22	14.73	7.45	841	2.89	838	<7.000	<5.0	2070	952	1050	<2.0000				
10/21/2020	12:35:00 PM	CA59568	Woonasquatucket River @ Manton Ave. Bridge	CA59561	RIVER	0.5	0.2	14.69	7.35	738	3.15	735	31	<5.0	1610	880	995	<2.0000				
10/21/2020	1:30:00 PM	CA59569	Moshassuck River @ Footbridge at Mill St.	CA59561	RIVER	0.5	0.29	15.41	7.33	610	10.7	599	69.9	<5.0	4840	745	860	<2.0000				
10/27/2020	9:35:00 AM	CA59822	Phillipsdale Landing Surface		BAY														2.4451	1.6943		
10/27/2020	9:38:00 AM	CA59823	Phillipsdale Landing Bottom		BAY														0.83697	2.0505		
10/27/2020	9:38:00 AM	CA59824	Phillipsdale Landing Bottom (Duplicate)		BAY														1.8935	3.1002		
10/28/2020	1:10:00 PM	CA59825	South Pawtuxet Cove Surface		BAY														2.6964	1.2018		
11/3/2020	10:20:00 AM	CA60372	Bullock Reach Buoy Surface		BAY														0.9669	0.60963		
11/3/2020	10:25:00 AM	CA60373	Bullock Reach Buoy Middle		BAY														1.2294	0.82281		
11/3/2020	10:30:00 AM	CA60374	Bullock Reach Buoy Bottom		BAY														1.1736	0.71691		
11/3/2020	10:30:00 AM	CA60375	Bullock Reach Buoy Bottom (Duplicate)		BAY														1.6848	3.3957		
11/4/2020	1:25:00 PM	CA60344	Nutrient Blank	CA60344	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
11/4/2020	9:50:00 AM	CA60345	Conimicut Point Surface	CA60344	BAY	0.5	27.31	10.46	7.65	132	9.53	122	127	70	900	531	431	7.2917	0.57657	0.60633		
11/4/2020	9:55:00 AM	CA60346	Conimicut Point Bottom	CA60344	BAY					75.4	7.92	67.5	101	65	686	494	343	28.936				
11/4/2020	2:20:00 PM	CA60347	Edgewood Yacht Club Surface	CA60344	BAY	0.5	26.34	12.04	7.67	129	10.6	118	143	79.3	950	614	484	5.8947	2.1148	0.92583		
11/4/2020	2:25:00 PM	CA60348	Edgewood Yacht Club Bottom	CA60344	BAY					84.5	9.43	75.1	133	69.6	833	516	394	9.3617				
11/4/2020	9:30:00 AM	CA60349	Pomham Rocks Surface	CA60344	BAY	0.5	25.79	11.06	7.58	167	11.3	156	146	110	1000	615	533	6.1538	1.2707	1.0075		
11/4/2020	9:35:00 AM	CA60350	Pomham Rocks Bottom	CA60344	BAY					97.3	8.76	88.5	114	68.3	804	537	377	9.5745				

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)	TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
11/4/2020	9:05:00 AM	CA60352	India Point Park Surface (Duplicate)	CA60344	BAY	0.5	22.21	11.8	7.54	210	11.4	199	152	66.8	1090	638	653	9.2473	0.96216	1.1349
11/4/2020	9:10:00 AM	CA60353	India Point Park Bottom	CA60344	BAY					77.8	8.93	68.9	111	61.6	702	464	345	9.7959		
11/4/2020	10:10:00 AM	CA60354	Bullock Reach Buoy Surface	CA60344	BAY	0.5	27.07	11.49	7.64	145	10.4	135	129	71.2	917	583	495	9.697	1.0358	0.70668
11/4/2020	10:15:00 AM	CA60355	Bullock Reach Buoy Bottom	CA60344	BAY					74.5	8.04	66.5	97.5	64.1	642	468	440	24.13		
11/4/2020	1:10:00 PM	CA60356	Pawtuxet Cove Surface	CA60344	BAY	0.5	7.6	9.46	7.15	802	7.25	795	109	34.9	2150	1190	1210	10.33	1.5106	1.1912
11/4/2020	1:15:00 PM	CA60357	Pawtuxet Cove Bottom	CA60344	BAY					165	11.5	153	144	76.1	1030	609	527	7.0968		
11/4/2020	1:00:00 PM	CA60370	Phillipsdale Landing Surface	CA60361	BAY	0.53	11.98	10.395	7.36	538	14.6	523	159	124	1850	975	1010	4.2105	<0.300	0.29352
11/4/2020	1:05:00 PM	CA60371	Phillipsdale Landing Bottom	CA60361	BAY	2.533	25.22	12.688	7.56	145	10.3	135	142	70.7	997	592	570	16.522		
11/4/2020	10:05:00 AM	CA60361	Nutrient Blank	CA60361	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
11/4/2020	1:50:00 PM	CA60362	Blackstone River @ Slater Mill	CA60361	RIVER	0.545	0.27	7.73	8.05	682	6.87	675	56.5	15.8	2250	937	1070	<2.0000		
11/4/2020	1:50:00 PM	CA60363	Blackstone River @ Slater Mill (Duplicate)	CA60361	RIVER	0.545	0.27	7.73	8.05	679	6.85	672	64	15.2	2270	938	1070	5.3191		
11/4/2020	8:30:00 AM	CA60364	Pawtuxet River @ Broad St.	CA60361	RIVER	0.503	0.78	7.813	7.23	1240	3.45	1240	63	14	3060	1600	1720	2.1739		
11/4/2020	9:30:00 AM	CA60365	Woonasquatucket River @ Valley St.	CA60361	RIVER	0.28	0.2	6.876	7.33	585	2.05	583	<7.000	<5.0	1890	715	901	<2.0000		
11/4/2020	10:00:00 AM	CA60366	Woonasquatucket River @ Manton Ave. Bridge	CA60361	RIVER	0.245	0.19	7.117	7.24	567	2.17	565	10.4	<5.0	1720	712	844	<2.0000		
11/4/2020	9:10:00 AM	CA60367	Moshassuck River @ Footbridge at Mill St.	CA60361	RIVER	0.175	0.27	7.033	7.25	472	5.36	467	70.5	<5.0	3750	617	716	<2.0000		
11/4/2020	2:25:00 PM	CA60368	Moshassuck River @ Higginson Ave.	CA60361	RIVER	0.288	0.24	8.628	7.46	278	4.11	274	7.3	6.92	3510	486	572	<2.0000		
11/4/2020	12:35:00 PM	CA60369	Ten Mile River @ Roger Williams Ave.	CA60361	RIVER	0.51	0.28	7.76	7.46	858	98.9	759	971	9.58	2950	2160	2350	2.3913		
11/10/2020	10:25:00 AM	CA60807	Phillipsdale Landing Surface	CA60807	BAY														3.5181	2.1913
11/10/2020	10:25:00 AM	CA60808	Phillipsdale Landing Surface (Duplicate)	CA60808	BAY														2.5212	1.622
11/10/2020	10:30:00 AM	CA60809	Phillipsdale Landing Bottom	CA60809	BAY														0.93753	1.3181
11/12/2020	10:00:00 AM	CA60810	South Pawtuxet Cove Surface	CA60810	BAY														4.3878	1.0138
11/17/2020	9:20:00 AM	CA61527	Bullock Reach Buoy Surface	CA61527	BAY														0.66708	1.0232
11/17/2020	9:20:00 AM	CA61528	Bullock Reach Buoy Surface (Duplicate)	CA61528	BAY														1.0352	0.88503
11/17/2020	9:25:00 AM	CA61529	Bullock Reach Buoy Middle	CA61529	BAY														1.3254	0.9339
11/17/2020	9:30:00 AM	CA61530	Bullock Reach Buoy Bottom	CA61530	BAY														1.1447	0.98121
11/18/2020	9:40:00 AM	CA61494	Nutrient Blank	CA61494	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
11/18/2020	10:00:00 AM	CA61496	Edgewood Yacht Club Surface	CA61494	BAY	0.5	26.58	10.6	7.71	193	11.6	181	141	96.7	977	653	518	7.0968	0.37104	0.56172
11/18/2020	10:20:00 AM	CA61500	Edgewood Shoal Surface (Duplicate)	CA61494	BAY	0.5	26.77	10.69	7.72	183	11.6	171	131	93.1	852	666	625	6.1702	0.50157	0.71895
11/18/2020	9:20:00 AM	CA61501	Pawtuxet Cove Surface	CA61494	BAY	0.5	15.06	9.52	7.43	866	8.12	858	109	47.6	2110	1310	1200	4.4706	0.44589	0.6825
11/18/2020	1:15:00 PM	CA61502	Phillipsdale Landing Surface	CA61494	BAY	0.55	16.18	9.681	7.82	665	14.7	650	129	239	1530	1190	1100	6.8889	1.5577	1.7235
11/18/2020	10:20:00 AM	CA61503	Edgewood Shoal Surface	CA61494	BAY	0.5	26.77	10.69	7.72	179	11.5	167	135	93.7	975	627	497	7.191	0.39864	0.66531
11/18/2020	10:25:00 AM	CA61504	Edgewood Shoal Bottom	CA61494	BAY					127	10.2	117	113	67.2	809	576	399	11.429		
11/18/2020	10:10:00 AM	CA61508	Nutrient Blank	CA61508	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
11/18/2020	8:30:00 AM	CA61509	Blackstone River @ Slater Mill	CA61508	RIVER	0.5	0.24	7.95	7.4	706	8.52	697	34.8	16.8	1990	916	1020	<2.0000		
11/18/2020	9:50:00 AM	CA61510	Blackstone River @ Stateline	CA61508	RIVER	0.5	0.23	7.57	7.44	638	13.2	625	36.4	18	2090	861	951	<2.0000		
11/18/2020	9:10:00 AM	CA61511	Blackstone River @ Bikepath Bridge	CA61508	RIVER	0.5	0.24	8.42	7.58	730	7.4	723	19.4	19	2200	923	1080	<2.0000		
11/18/2020	7:30:00 AM	CA61512	Pawtuxet River @ Broad St.	CA61508	RIVER	0.5	0.25	9.25	7.21	1640	4.62	1640	56.3	18.3	3270	1910	2120	2.0408		
11/18/2020	1:00:00 PM	CA61513	Woonasquatucket River @ Valley St.	CA61508	RIVER	0.5	0.18	7.43	7.68	431	1.76	429	<7.000	<5.0	1420	580	648	3.5417		
11/18/2020	1:00:00 PM	CA61514	Woonasquatucket River @ Valley St. (Duplicate)	CA61508	RIVER	0.5	0.18	7.43	7.68	434	1.99	432	<7.000	<5.0	1440	592	648	2.9167		
11/18/2020	1:30:00 PM	CA61515	Moshassuck River @ Footbridge at Mill St.	CA61508	RIVER	0.5	0.27	7.26	7.51	443	8.31	435	89.7	5.3	3900	629	740	<2.0000		
11/18/2020	8:05:00 AM	CA61516	Moshassuck River @ Higginson Ave.	CA61508	RIVER	0.5	0.25	7.35	7.11	179	4.09	175	22.4	5.84	2900	389	409	<2.0000		
11/18/2020	1:05:00 PM	CA61517	Nutrient Blank	CA61517	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
11/18/2020	9:40:00 AM	CA61518	Warren Reservoir/Kickemuit River	CA61517	RIVER	0.5	8.94	11.7	6.92	119	16.8	102	396	19.4	3380	1880	1060	12.326		
11/18/2020	9:15:00 AM	CA61519	Coles River @ Milford Rd.	CA61517	RIVER	0.5	0.17	8	7.36	58.6	2.55	56	<7.000	<5.0	4260	623	553	2.7273		
11/18/2020	10:10:00 AM	CA61520	Palmer River @ Rt. 6	CA61517	RIVER	0.5	22.71	6.5	7.61	72.2	5.21	67	49.3	23.3	1640	528	349	8.7356		
11/18/2020	10:30:00 AM	CA61521	Runnins River @ River Rd.	CA61517	RIVER	0.5	0.35	5.6	7.49	371	1.96	369	21.8	<5.0	4910	578	687	<2.0000		
11/18/2020	8:30:00 AM	CA61522	Taunton River @ Berkley Bridge	CA61517	RIVER	0.5	0.36	7.3	7.55	747	38.1	709	658	63.8	4520	1730	1840	4.4944		
11/18/2020	12:55:00 PM	CA61523	Ten Mile River @ Roger Williams Ave.	CA61517	RIVER	0.5	0.28	8.7	7.58	2060	82.2	1980	373	20.6	3590	2850	2880	2.7273		
11/18/2020	1:45:00 PM	CA61524	Ten Mile River @ Central Ave.	CA61517	RIVER	0.5	0.28	7.5	7.41	3390	10.1	3380	72.6	16.3	3320	3940	3860	2.2472		
11/18/2020	1:45:00 PM	CA61525	Ten Mile River @ Central Ave. (Duplicate)	CA61517	RIVER	0.5	0.28	7.5	7.41	3360	9.86	3350	74.4	15.5	3450	3920	3920	<2.0000		
11/24/2020	9:40:00 AM	CA62114	Phillipsdale Landing Surface	CA62114	BAY														2.0892	2.4992
11/24/2020	9:45:00 AM	CA62115	Phillipsdale Landing Bottom	CA62115	BAY														1.7966	2.7176
11/24/2020	9:45:00 AM	CA62116	Phillipsdale Landing Bottom (Duplicate)	CA62116	BAY														2.2282	4.4022
12/2/2020	10:10:00 AM	CA62511	Nutrient Blank	CA62511	BAY					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000			
12/2/2020	9:15:00 AM	CA62512	Conimicut Point Surface	CA62511	BAY	0.5	21.1	9.63	7.66	279	11.6	267	135	61.4	1110	773	611	14.747	1.1721	1.5354
12/2/2020	9:20:00 AM	CA62513	Conimicut Point Bottom	CA62511	BAY					129	11.4	118	84.8	54.4	697	624	364	25.918		
12/2/2020	1:30:00 PM	CA62514	Edgewood Yacht Club Surface	CA62511	BAY	0.5	12.44	10.01	7.49	493	15.4	478	202	83.1	1700	1170	958	8	1.1506	1.7262
12/2/2020	1:35:00 PM	CA62515	Edgewood Yacht Club Bottom	CA62511	BAY					204	12.5	191	132	64	1000	884	545	38.723		
12/2/2020	8:50:00 AM	CA62516	Pomham Rocks Surface	CA62511	BAY	0.5	11	9.24	7.52	484	11.5	472	172	79.5	1860	1070	901	9.6629	1.1438	1.8739
12/2/2020	8:55:00 AM	CA62517	Pomham Rocks Bottom	CA62511	BAY					157	11.8	145	95.6	57.6	752	549	383	20.625		
12/2/2020	12:50:00 PM	CA62518	India Point Park Surface	CA62511	BAY	0.5	7.19	9.42	7.48	655	13.2	642	110	44.5	2840	1310	1070	11.429	1.627	3.7284
12/2/2020	12:55:00 PM	CA62519	India Point Park Bottom	CA62511	BAY					401	12.5	388	124	56.9	1550	979	783	11.789		
12/2/2020	9:35:00 AM	CA62520	Bullock Reach Buoy Surface	CA62511	BAY	0.5	16.86	10.36	7.59	368	12.8	355	178	81.1	1370	933	806	7.3118	1.1668	1.7436
12/2/2020	9:35:00 AM	CA62521	Bullock Reach Buoy Surface (Duplicate)	CA62511	BAY	0.5	16.86	10.36	7.59	362	12.8	349	164							

River and Bay Nutrients Data 2020

Collection Date*	Collection Time	Sample ID	Station	Associated Blank	Waterbody	Depth (meters)	Salinity (ppt)	Temp (°C)	pH	NUTRIENT PARAMETERS**										TSS (ppm)	Chl a (µg/L)	Phaeo-phytin (µg/L)
										NO ₃ +NO ₂ (ppb N)	Nitrite (ppb N)	Nitrate (ppb N)	NH ₃ (ppb N)	Ortho-Phosphate (ppb P)	Silicate (ppb Si)	Total Nitrogen (ppb N)	Total Dissolved Nitrogen (ppb N)					
12/2/2020	1:15:00 PM	CA62524	Pawtuxet Cove Bottom	CA62511	BAY					223	11	212	138	55.3	1150	966	566	41.111				
12/2/2020	12:55:00 PM	CA62538	Phillipsdale Landing Surface	CA62529	BAY	0.486	0.39	9.431	7	661	23.8	637	126	41.2	2420	1260	1120	9.4505	4.1655	4.6698		
12/2/2020	1:00:00 PM	CA62539	Phillipsdale Landing Bottom	CA62529	BAY	1.298	0.88	9.405	6.89	561	22.7	538	111	33.3	2310	1210	1010	12.632				
12/2/2020	1:45:00 PM	CA62529	Nutrient Blank	CA62529	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
12/2/2020	2:12:00 PM	CA62530	Blackstone River @ Slater Mill	CA62529	RIVER	0.482	0.14	9.098	7.41	473	13.2	460	51.1	15.5	2340	985	856	13.617				
12/2/2020	8:40:00 AM	CA62531	Pawtuxet River @ Broad St.	CA62529	RIVER	0.412	0.11	10.297	6.83	666	5.01	661	72.8	14	2240	1190	1100	6.7391				
12/2/2020	10:12:00 AM	CA62532	Woonasquatucket River @ Valley St.	CA62529	RIVER	0.25	0.16	8.903	7.11	510	2	508	<7.000	6.38	2020	855	820	<2.0000				
12/2/2020	9:40:00 AM	CA62533	Woonasquatucket River @ Manton Ave. Bridge	CA62529	RIVER	0.361	0.15	8.636	7.04	454	1.94	452	13	5.18	1780	805	768	<2.0000				
12/2/2020	10:35:00 AM	CA62534	Moshassuck River @ Footbridge at Mill St.	CA62529	RIVER	0.344	0.14	9.348	7.07	375	4.56	370	51.1	9.21	2450	787	713	4.086				
12/2/2020	2:30:00 PM	CA62535	Moshassuck River @ Hgginson Ave.	CA62529	RIVER	0.494	0.14	10.411	7.27	372	3.73	368	8.64	14.7	2440	810	727	<2.0000				
12/2/2020	12:30:00 PM	CA62536	Ten Mile River @ Roger Williams Ave.	CA62529	RIVER	0	0.14	10.547	7.11	897	8.27	889	23.4	27.8	2300	1410	1320	5.2747				
12/2/2020	12:30:00 PM	CA62537	Ten Mile River @ Roger Williams Ave. (Duplicate)	CA62529	RIVER	0	0.14	10.547	7.11	892	8.15	884	22.2	24.4	2280	1410	1320	5				
12/8/2020	11:15:00 AM	CA63118	Phillipsdale Landing Surface		BAY															3.1086	3.3363	
12/8/2020	11:20:00 AM	CA63119	Phillipsdale Landing Bottom		BAY															6.312	6.849	
12/8/2020	11:20:00 AM	CA63120	Phillipsdale Landing Bottom (Duplicate)		BAY															5.5788	6.6504	
12/16/2020	2:00:00 PM	CA63551	Nutrient Blank	CA63551	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
12/16/2020	10:30:00 AM	CA63552	Warren Reservoir/Kickemuit River	CA63551	RIVER	0.5	0.15	2.14	7.63	673	8.07	665	60.7	16.6	2570	1210	1230	<2.0000				
12/16/2020	10:10:00 AM	CA63553	Coles River @ Milford Rd.	CA63551	RIVER	0.5	0.07	3.39	7.21	218	3.15	215	<7.000	12.9	1520	763	810	<2.0000				
12/16/2020	11:00:00 AM	CA63554	Palmer River @ Rt. 6	CA63551	RIVER	0.5	0.1	2.41	7.26	209	7.71	201	60.5	26.8	2100	738	597	8.6956				
12/16/2020	1:00:00 PM	CA63555	Runnins River @ River Rd.	CA63551	RIVER	0.5	0.19	0.91	7.6	644	3.02	641	16.5	9.27	4270	1010	1110	<2.0000				
12/16/2020	1:00:00 PM	CA63556	Runnins River @ River Rd. (Duplicate)	CA63551	RIVER	0.5	0.19	0.91	7.6	645	3.11	642	17.4	9.36	4020	1000	1090	<2.0000				
12/16/2020	9:40:00 AM	CA63557	Taunton River @ Berkley Bridge	CA63551	RIVER	0.5	0.13	3.33	7.76	460	11.9	448	25.6	23.7	3180	1170	1220	5.3608				
12/16/2020	2:30:00 PM	CA63558	Ten Mile River @ Roger Williams Ave.	CA63551	RIVER	0.5	0.17	3.95	7.41	1540	6.38	1530	40.4	43.8	3150	1870	1910	3.1579				
12/16/2020	1:40:00 PM	CA63559	Ten Mile River @ Central Ave.	CA63551	RIVER	0.5	0.22	3.2	7.34	1890	4.31	1890	46.9	60.3	3280	2300	2470	3.1915				
12/30/2020	1:15:00 PM	CA63542	Nutrient Blank	CA63542	RIVER					<6.000	<1.5	<6.0	<7.000	<5.0	<20.000	<200.000	<100.000					
12/30/2020	8:00:00 AM	CA63543	Blackstone River @ Slater Mill	CA63542	RIVER	0.5	0.15	2.43	7.67	634	9.25	625	90.1	12.2	2270	976	944	3.956				
12/30/2020	9:30:00 AM	CA63544	Blackstone River @ Stateline	CA63542	RIVER	0.5	0.14	1.72	7.3	452	4.2	448	18.3	10.6	2210	714	714	5.4118				
12/30/2020	8:35:00 AM	CA63545	Blackstone River @ Bikepath Bridge	CA63542	RIVER	0.5	0.14	2.19	7.38	584	9.68	574	80.9	10.1	2400	908	894	2.9545				
12/30/2020	8:35:00 AM	CA63546	Blackstone River @ Bikepath Bridge (Duplicate)	CA63542	RIVER	0.5	0.14	2.19	7.38	585	9.82	575	77.4	10.3	2260	898	898	2.3529				
12/30/2020	10:15:00 AM	CA63547	Pawtuxet River @ Broad St.	CA63542	RIVER	0.5	0.11	2.95	7.33	970	3.61	966	45.6	14.7	2460	1230	1250	3.7209				
12/30/2020	1:30:00 PM	CA63548	Woonasquatucket River @ Valley St.	CA63542	RIVER	0.5	0.13	2.94	7.31	525	2.03	523	8.91	<5.0	2220	727	728	2.2988				
12/30/2020	1:05:00 PM	CA63549	Woonasquatucket River @ Manton Ave. Bridge	CA63542	RIVER	0.5	0.12	2.79	7.36	482	2.06	480	13.6	<5.0	2300	691	721	<2.0000				
12/30/2020	1:50:00 PM	CA63550	Moshassuck River @ Footbridge at Mill St.	CA63542	RIVER	0.5	0.2	3.39	7.35	761	5.42	756	146	9.41	3680	1020	1110	<2.0000				

Table 36: River and Bay Nutrients Data

*River and bay nutrient sampling was not conducted in April and May due to COVID-19.

**NR = Non-Reportable; analyzed out of hold time due to COVID-19.

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	1/6/2020	1/7/2020	1/13/2020	1/14/2020	1/21/2020	1/22/2020	1/27/2020	1/28/2020	2/3/2020	2/4/2020	2/10/2020
Blackstone River	BL-2-Whipple Bridge	90		<30.0		40		430		40		<30.0
	BL-4-Roosevelt St.	40		40		<30.0		430		<30.0		40
	BL-4C-Central Ave.	230		<30.0		<30.0		230		40		40
	BL-3-Slater Mill Dam			<30.0		<30.0		430		40		40
Seekonk River	SR-5A-Pitman Street		40				<30.0					<30.0
	SR-5A-ALT-Pitman Street Tidegate Manhole		40		40		40		230		40	
Moshassuck River	M-1-Higginson Ave. Bridge		90		90		90		230		150	
	M-4C-Grotto Ave. Bridge		40		430		230		930		46000	
	M-4A-Grenville St.		230		150		90		230		110000	
	<i>M-4A-Grenville St. (Duplicate)</i>		40		430		90		230		46000	
	M-4-Cemetery St. Bridge		40		70		<30.0		90		46000	
	M-5A-Stevens St. Bridge		430		230		430		430		46000	
	M-5-Footbridge Mill St.	1500	90	930	930	4300	430	430	230	930	21000	4300
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	430	230	930	930	4300	930	230	430	2300	24000	4300
M-6-Park Row Bridge		230		40		40		230		24000		
West River	WE-10-Douglas Ave. Bridge		40		40		230		90		150	
	WE-12-Veazie St. Bridge		40		230		90		40		430	
	WE-11-West River St. Bridge		90		230		90		430		4300	
Woonasquatucket River	W-9-Manton Ave.	<30.0		30		<30.0		40		40		<30.0
	W-8D-Parking Bridge Olneyville	<30.0		40		<30.0		<30.0		30		430
	W-8C-Delaine St.	40		<30.0		90		40		40		90
	W-7C-Eagle St.	<30.0	<30.0	40	430	<30.0	<30.0	90	90	<30.0	40	230
	<i>W-7C-Eagle St. (Duplicate)</i>	40		<30.0		<30.0		90		<30.0		40
	W-7B-Pleasant Valley Pkwy.	40		<30.0		<30.0		<30.0		90		150
	W-7A-Kinsley St.	40	<30.0	<30.0	40	<30.0	40	230	40	40	<30.0	<30.0
Providence River	PR-12-Crawford St. Bridge	70	230	40	150	230	40	90	90	230	24000	430
Pawtuxet River	PX-13-Broad St.		40		<30.0		<30.0		<30.0		40	
	<i>PX-13-Broad St. (Duplicate)</i>		<30.0		40		<30.0		40		40	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	2/11/2020	2/18/2020	2/19/2020	2/24/2020	2/25/2020	3/2/2020	3/3/2020	3/9/2020	3/10/2020	3/16/2020	3/17/2020
Blackstone River	BL-2-Whipple Bridge		40		<30.0		<30.0		<30.0		<30.0	
	BL-4-Roosevelt St.		<30.0		<30.0		<30.0		<30.0		<30.0	
	BL-4C-Central Ave.		40		<30.0		40		<30.0		<30.0	
	BL-3-Slater Mill Dam		<30.0		<30.0		40		40		90	
Seekonk River	SR-5A-Pitman Street			40				<30.0				<30.0
	SR-5A-ALT-Pitman Street Tidegate Manhole	430		230		<30.0		<30.0		<30.0		<30.0
Moshassuck River	M-1-Higginson Ave. Bridge	150		90		40		<30.0		230		230
	M-4C-Grotto Ave. Bridge	7500		230		200		230		230		230
	M-4A-Grenville St.	46000		230		430		230		4300		430
	<i>M-4A-Grenville St. (Duplicate)</i>	9300		90		230		230		230		930
	M-4-Cemetery St. Bridge	46000		750		230		90		<30.0		210
	M-5A-Stevens St. Bridge	9300		430		230		90		430		4300
	M-5-Footbridge Mill St.	2300	430	150	210	90	430	430	150	930	150	2300
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	930	430	230	230	140	230	430	230	430	430	4300
M-6-Park Row Bridge	9300		430		230		230		230		2300	
West River	WE-10-Douglas Ave. Bridge	4300		40		90		70		90		430
	WE-12-Veazie St. Bridge	430		<30.0		<30.0		<30.0		40		90
	WE-11-West River St. Bridge	1500		2300		90		<30.0		150		430
Woonasquatucket River	W-9-Manton Ave.		<30.0		<30.0		<30.0		<30.0		<30.0	
	W-8D-Parking Bridge Olneyville		<30.0		40		40		40		40	
	W-8C-Delaine St.		<30.0		30		40		40		90	
	W-7C-Eagle St.	90	<30.0	<30.0	40	40	40	230	<30.0	40	150	70
	<i>W-7C-Eagle St. (Duplicate)</i>		40		<30.0		<30.0		<30.0		40	
	W-7B-Pleasant Valley Pkwy.		<30.0		<30.0		<30.0		90		90	
	W-7A-Kinsley St.	230	<30.0	40	30	40	<30.0	430	<30.0	90	<30.0	30
Providence River	PR-12-Crawford St. Bridge	9300	930	90	230	90	90	230	90	230	430	430
Pawtuxet River	PX-13-Broad St.	<30.0		40		40		<30.0		<30.0		<30.0
	<i>PX-13-Broad St. (Duplicate)</i>	110		<30.0		40		90		<30.0		40
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	3/23/2020	3/24/2020	3/30/2020	3/31/2020	4/6/2020	4/7/2020	4/13/2020	4/14/2020	4/20/2020	4/21/2020	4/27/2020
Blackstone River	BL-2-Whipple Bridge	<30.0		140		<30.0		40		<30.0		40
	BL-4-Roosevelt St.	40		150		40		90		40		90
	BL-4C-Central Ave.	230		40		90		70		<30.0		40
	BL-3-Slater Mill Dam	40		90		<30.0						
Seekonk River	SR-5A-Pitman Street		2300		140				4300		<30.0	
	SR-5A-ALT-Pitman Street Tidegate Manhole		4300		390		<30.0		2300		40	
Moshassuck River	M-1-Higginson Ave. Bridge		<30.0		<30.0		150		230		90	
	M-4C-Grotto Ave. Bridge		1500		230		90		430		<30.0	
	M-4A-Grenville St.		4300		90						90	
	<i>M-4A-Grenville St. (Duplicate)</i>		4300		230						40	
	M-4-Cemetery St. Bridge		2300		210		40		430		40	
	M-5A-Stevens St. Bridge		2300		430		930		430		90	
	M-5-Footbridge Mill St.	40	930	230	90	90	2300	1500	430	930	40	430
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	430	2300	90	90	70**	430	2300	150	150	90	230
M-6-Park Row Bridge		2300		40		230		430		230		
West River	WE-10-Douglas Ave. Bridge		90		40		150		230		430	
	WE-12-Veazie St. Bridge		150		40		<30.0		430		70	
	WE-11-West River St. Bridge		390		150		2300		430		230	
Woonasquatucket River	W-9-Manton Ave.	<30.0		90		<30.0		40		<30.0		40
	W-8D-Parking Bridge Olneyville	<30.0		30		<30.0		40		<30.0		230
	W-8C-Delaine St.	210		90		<30.0		230		<30.0		150
	W-7C-Eagle St.	<30.0	230	40	90	<30.0**	<30.0	230	4300	<30.0	40	150
	<i>W-7C-Eagle St. (Duplicate)</i>	<30.0		30		<30.0		430		40		150
	W-7B-Pleasant Valley Pkwy.	<30.0		<30.0		40		4300		<30.0		40
	W-7A-Kinsley St.	<30.0	230	40	<30.0	40	<30.0	70	2300	40	<30.0	40
Providence River	PR-12-Crawford St. Bridge	90	230	30	70	<30.0	70	4300	2300	40	230	430
Pawtuxet River	PX-13-Broad St.		230		40		90		430		40	
	<i>PX-13-Broad St. (Duplicate)</i>		150		70		90		1500		40	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	4/28/2020	5/4/2020	5/5/2020	5/11/2020	5/12/2020	5/18/2020	5/19/2020	5/26/2020	5/27/2020	6/1/2020	6/2/2020
Blackstone River	BL-2-Whipple Bridge		40		90		40		70		40	
	BL-4-Roosevelt St.		40		<30.0		30		40		30	
	BL-4C-Central Ave.		40		<30.0		<30.0		40		230	
	BL-3-Slater Mill Dam		90		<30.0		40		70		90	
Seekonk River	SR-5A-Pitman Street			40		90		90		40		<30.0
	SR-5A-ALT-Pitman Street Tidegate Manhole	<30.0		<30.0		90		230		<30.0		40
Moshassuck River	M-1-Higginson Ave. Bridge	90		90		230		150		230		230
	M-4C-Grotto Ave. Bridge	150		230		230		430		930		4300
	M-4A-Grenville St.			930		230		230		230		2300
	<i>M-4A-Grenville St. (Duplicate)</i>			430		90		430		430		750
	M-4-Cemetery St. Bridge	40		2300		40		230		430		230
	M-5A-Stevens St. Bridge	40		430		230		930		430		430
	M-5-Footbridge Mill St.	90	430	230	90	2300	230	140	750	430	2300	930
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	70	24000	230	90	230	90	230	230	430	1500	1500
M-6-Park Row Bridge	70		230		430		430		230		750	
West River	WE-10-Douglas Ave. Bridge	230		40		90		230		150		930
	WE-12-Veazie St. Bridge	40		230		230		150		90		930
	WE-11-West River St. Bridge	70		430		430		230		430		4300
Woonasquatucket River	W-9-Manton Ave.		<30.0		<30.0		70		<30.0		150	
	W-8D-Parking Bridge Olneyville		40		<30.0		90		150		430	
	W-8C-Delaine St.		230		<30.0		90		90		230	
	W-7C-Eagle St.	40	230	<30.0	40	90	430	750	430	230	230	230
	<i>W-7C-Eagle St. (Duplicate)</i>		90		230		430		750		430	
	W-7B-Pleasant Valley Pkwy.		90		90		430		150		430	
	W-7A-Kinsley St.	230	430	90	90	430	230	430	430	930	430	930
Providence River	PR-12-Crawford St. Bridge	150	40	930	90	230	430	230	930	430	1500	230
Pawtuxet River	PX-13-Broad St.	40		40		90		40		70		150
	<i>PX-13-Broad St. (Duplicate)</i>	40		<30.0		40		150		40		230
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	6/8/2020	6/9/2020	6/15/2020	6/16/2020	6/18/2020	6/22/2020	6/23/2020	6/25/2020	6/29/2020	6/30/2020	7/6/2020
Blackstone River	BL-2-Whipple Bridge	930		110			150			930		90
	BL-4-Roosevelt St.	230		230			40			4300		430
	BL-4C-Central Ave.	90		90			150		430	2300		90
	BL-3-Slater Mill Dam	230		90			2300		4300	4300		430
Seekonk River	SR-5A-Pitman Street		40		230			40				9300
	SR-5A-ALT-Pitman Street Tidegate Manhole		150		2300			40				4300
Moshassuck River	M-1-Higginson Ave. Bridge		750		430			2300	4300			930
	M-4C-Grotto Ave. Bridge		2300		930			430				24000
	M-4A-Grenville St.		430		930			930				2300
	<i>M-4A-Grenville St. (Duplicate)</i>		4300		930			430				2300
	M-4-Cemetery St. Bridge		430		390	230		430	15000			4300
	M-5A-Stevens St. Bridge		2300		430	930		4300	46000			2300
	M-5-Footbridge Mill St.	2300	2300	430	2300	2300	750	930		9300	2300	2300
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	2300	2300	930	930		2300	930		15000	9300	230
M-6-Park Row Bridge		2300		930	2300			4300	110000			4300
West River	WE-10-Douglas Ave. Bridge		2300		430			430				4300
	WE-12-Veazie St. Bridge		9300		430	930						4300
	WE-11-West River St. Bridge		2300		2300	750		1500	110000			2300
Woonasquatucket River	W-9-Manton Ave.	930		110			230					40
	W-8D-Parking Bridge Olneyville	930		930			430		230	930		2300
	W-8C-Delaine St.	930		930			4300		430	930		930
	W-7C-Eagle St.	2300	430	750	930		930	2300	1500	2300	930	430
	<i>W-7C-Eagle St. (Duplicate)</i>	430		1500			430			9300		2300
	W-7B-Pleasant Valley Pkwy.	4300		1500			430		9300	4300		930
	W-7A-Kinsley St.	4300	2300	2300	430		4300	750		9300	4300	930
Providence River	PR-12-Crawford St. Bridge	230	4300	1500	7500	9300	930	230	46000	9300	4300	430
Pawtuxet River	PX-13-Broad St.		2300		150			430				230
	<i>PX-13-Broad St. (Duplicate)</i>		930		230**			930				230
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	7/7/2020	7/13/2020	7/14/2020	7/20/2020	7/21/2020	7/27/2020	7/28/2020	8/3/2020	8/4/2020	8/11/2020	8/12/2020
Blackstone River	BL-2-Whipple Bridge		230		150		230		<30.0		200	
	BL-4-Roosevelt St.		90		90		40		40		40	
	BL-4C-Central Ave.		230		230		230		150		90	
	BL-3-Slater Mill Dam		430		430		40		90		230	
Seekonk River	SR-5A-Pitman Street	2300		430				90		90		40
	SR-5A-ALT-Pitman Street Tidegate Manhole	2300		930		930		90		40		40
Moshassuck River	M-1-Higginson Ave. Bridge	90		2300		230		430		930		430
	M-4C-Grotto Ave. Bridge	4300		2300		4300		930		930		9300
	M-4A-Grenville St.	2300		930		4300		930		1500		1500
	<i>M-4A-Grenville St. (Duplicate)</i>	2300		2300		4300		2300		930		230
	M-4-Cemetery St. Bridge	930		930		24000		2300		4300		150
	M-5A-Stevens St. Bridge	2300		4300		2300		930		430		2300
	M-5-Footbridge Mill St.	2300	3900	24000	15000	2300	930	2300	930	430	15000	930
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	4300	1500	9300	24000	4300	930	2300	930	4300	9300	430
M-6-Park Row Bridge	4300		4300		2300		230		1500		1500	
West River	WE-10-Douglas Ave. Bridge	2300		9300		4300		930		930		930
	WE-12-Veazie St. Bridge	2300		4300		2300		430		430		230
	WE-11-West River St. Bridge	2300		4300		4300		2300		430		930
Woonasquatucket River	W-9-Manton Ave.		390		930		90		150		230	
	W-8D-Parking Bridge Olneyville		2300		930		930		1500		430	
	W-8C-Delaine St.		750		930		930		1200		430	
	W-7C-Eagle St.	4300	4300	4300	930	930	930	230	1500	4300	4300	430
	<i>W-7C-Eagle St. (Duplicate)</i>		930		1500		430		430		930	
	W-7B-Pleasant Valley Pkwy.		430		2300		930		930		930	
W-7A-Kinsley St.	9300	9300	930	9300	2300	2300	2300	1500	930	930	430	
Providence River	PR-12-Crawford St. Bridge	9300	930	4300	930	9300	2300	2300	930	930	750	230
Pawtuxet River	PX-13-Broad St.	230		230		930		430		930		430
	<i>PX-13-Broad St. (Duplicate)</i>	430		230		430		430		930		230
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	8/17/2020	8/18/2020	8/24/2020	8/25/2020	8/31/2020	9/1/2020	9/8/2020	9/9/2020	9/14/2020	9/15/2020	9/17/2020
Blackstone River	BL-2-Whipple Bridge	230		150		<30.0		90		90		
	BL-4-Roosevelt St.	2300		<30.0		210		430		90		
	BL-4C-Central Ave.	930		90		90		40		40		
	BL-3-Slater Mill Dam	2300		430		930		40		90		
Seekonk River	SR-5A-Pitman Street		930		4300		230		230		40	
	SR-5A-ALT-Pitman Street Tidegate Manhole		430		2300		430		40		70	
Moshassuck River	M-1-Higginson Ave. Bridge		24000		430		930		430		430	
	M-4C-Grotto Ave. Bridge		9300		930		24000		4300		930	2300
	M-4A-Grenville St.		9300		930		2300		430		3900	430
	<i>M-4A-Grenville St. (Duplicate)</i>		46000		430		930		930		430	
	M-4-Cemetery St. Bridge		9300		430		2300		230		750	930
	M-5A-Stevens St. Bridge		110000		430		930		430		230	
	M-5-Footbridge Mill St.	24000	24000	230	930	2300	930	230	430	430	150	
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	46000	46000	430	930	1500	930	430	2300	930	230	
	M-6-Park Row Bridge		46000		1500		930		2300		430	
West River	WE-10-Douglas Ave. Bridge		15000		2300		2300		2300		4300	430
	WE-12-Veazie St. Bridge		9300		430		2300		430		430	430
	WE-11-West River St. Bridge		9300		4300		2300		930		430	
Woonasquatucket River	W-9-Manton Ave.	930		150		230		230		230		
	W-8D-Parking Bridge Olneyville	4300		430		930		930		390		
	W-8C-Delaine St.	4300		230		930		930		930		
	W-7C-Eagle St.	4300	2300	2300	1500	2300	4300	930	930	230	750	430
	<i>W-7C-Eagle St. (Duplicate)</i>	24000		4300		430		430		1500		
	W-7B-Pleasant Valley Pkwy.	24000		430		4300		2300		4300		930
	W-7A-Kinsley St.	24000	2300	930	430	930	9300	9300	2300	1500	2300	1500
Providence River	PR-12-Crawford St. Bridge	24000	24000	750	2300	2300	930	430	2300	930	930	930
Pawtuxet River	PX-13-Broad St.		930		230		230		230		230	
	<i>PX-13-Broad St. (Duplicate)</i>		430		230		230		90		2300	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	9/21/2020	9/22/2020	9/24/2020	9/28/2020	9/29/2020	10/5/2020	10/6/2020	10/13/2020	10/14/2020	10/19/2020
Blackstone River	BL-2-Whipple Bridge	<30.0			150		40		230		90
	BL-4-Roosevelt St.	<30.0			230		40		90		40
	BL-4C-Central Ave.	90			40		40		430		150
	BL-3-Slater Mill Dam	40			70		110		150		40
Seekonk River	SR-5A-Pitman Street					90				430	
	SR-5A-ALT-Pitman Street Tidegate Manhole		<30.0			90		430		750	
Moshassuck River	M-1-Higginson Ave. Bridge		390	930		390		1500		430	
	M-4C-Grotto Ave. Bridge		9300	4300		46000		1500		930	
	M-4A-Grenville St.		230	1500		930		140		24000	
	<i>M-4A-Grenville St. (Duplicate)</i>		930			210		430		7500**	
	M-4-Cemetery St. Bridge		430			230		930		9300	
	M-5A-Stevens St. Bridge		230			930		230		46000	
	M-5-Footbridge Mill St.	930	230		930	230	2300	390	4300	4300	430
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	430	930		4300	930	4300	930	24000	2300	430**
M-6-Park Row Bridge		230			1500		930		9300		
West River	WE-10-Douglas Ave. Bridge		230	150		15000		430		2300	
	WE-12-Veazie St. Bridge		2300	430		430		430		9300	
	WE-11-West River St. Bridge		750	230		930		750		4300	
Woonasquatucket River	W-9-Manton Ave.	210			930		140		930		230
	W-8D-Parking Bridge Olneyville	390			430		2300		9300		230
	W-8C-Delaine St.	430			430		3900		9300		90
	W-7C-Eagle St.	430	930		>240000.0	46000	2300	230	12000	430	90
	<i>W-7C-Eagle St. (Duplicate)</i>	930			>240000.0		4300		4300		430**
	W-7B-Pleasant Valley Pkwy.	390		2100	4300		2300		4300		230
	W-7A-Kinsley St.	2300	230	930	4300	9300	1500	2300	9300	2300	930
Providence River	PR-12-Crawford St. Bridge	150	210	930	4300	4300	230	2100	9300	9300	930
Pawtuxet River	PX-13-Broad St.		40			230		230		2300	
	<i>PX-13-Broad St. (Duplicate)</i>		210			2300		230		930	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	10/20/2020	10/26/2020	10/27/2020	11/2/2020	11/3/2020	11/9/2020	11/10/2020	11/16/2020	11/17/2020	11/23/2020
Blackstone River	BL-2-Whipple Bridge		90		430		<30.0		40		<30.0
	BL-4-Roosevelt St.		<30.0		430		<30.0		930		430
	BL-4C-Central Ave.		90		90		40		230		2300
	BL-3-Slater Mill Dam		40		430		<30.0		390		9300
Seekonk River	SR-5A-Pitman Street	<30.0		70		230		90		90	
	SR-5A-ALT-Pitman Street Tidegate Manhole	390		40		230				230	
Moshassuck River	M-1-Higginson Ave. Bridge	390		430		230		90		430	
	M-4C-Grotto Ave. Bridge	4300		2300		2100		24000		2300	
	M-4A-Grenville St.	230		4300		750		230		2300	
	<i>M-4A-Grenville St. (Duplicate)</i>	430**		930		930		930**		4300**	
	M-4-Cemetery St. Bridge	2300		430		430		930		230	
	M-5A-Stevens St. Bridge	9300		9300		1500		930		430	
	M-5-Footbridge Mill St.	2300	230	930	930	930	2300	430	2300	930	15000
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	4300**	230	750	930	930	4300**	2300**	4300**	430**	46000
M-6-Park Row Bridge	930		2300		930		430		3900		
West River	WE-10-Douglas Ave. Bridge	230		930		930		40		90	
	WE-12-Veazie St. Bridge	430		230		230		430		750	
	WE-11-West River St. Bridge	230		430		230		430		230	
Woonasquatucket River	W-9-Manton Ave.		90		930		<30.0		430		150
	W-8D-Parking Bridge Olneyville		40		930		90		40		2300
	W-8C-Delaine St.		<30.0		230		30		430		4300
	W-7C-Eagle St.	15000	90	90	430	230	<30.0	230	430	230	9300
	<i>W-7C-Eagle St. (Duplicate)</i>		40		230		230**		90**		4300
	W-7B-Pleasant Valley Pkwy.		430		750		<30.0		230		4300
W-7A-Kinsley St.	1500	230	230	2300	150	70	90	4300	430	9300	
Providence River	PR-12-Crawford St. Bridge	430	70	750	1200	750	90	430	4300	230	9300
Pawtuxet River	PX-13-Broad St.	90		40		230		90		40	
	<i>PX-13-Broad St. (Duplicate)</i>	40**		430		150		90**		150**	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	11/24/2020	11/30/2020	12/1/2020	12/7/2020	12/8/2020	12/14/2020	12/15/2020	12/21/2020	12/22/2020	12/28/2020
Blackstone River	BL-2-Whipple Bridge		30		230		<30.0		40		150
	BL-4-Roosevelt St.		40		140		40		150		230
	BL-4C-Central Ave.		<30.0		930		70		30		280
	BL-3-Slater Mill Dam		<30.0		430		<30.0		40		430
Seekonk River	SR-5A-Pitman Street			4300		230					
	SR-5A-ALT-Pitman Street Tidegate Manhole	1500		7500		430		<30.0		40	
Moshassuck River	M-1-Higginson Ave. Bridge	230		4300		230		430		70	
	M-4C-Grotto Ave. Bridge	2300		2300		4300		2300		430	
	M-4A-Grenville St.	2300		4300		930		7500		90	
	<i>M-4A-Grenville St. (Duplicate)</i>	4300		4300		4300		1500		430	
	M-4-Cemetery St. Bridge	15000		9300		930		4300		150	
	M-5A-Stevens St. Bridge	2300		2300		430		930		230	
	M-5-Footbridge Mill St.	4300	230	3900	930	750	930	2300	430	750	1500
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	4300	430	2300	2100	430	930	1500	230	90	2300
	M-6-Park Row Bridge	2300		4300		930		1500		140	
West River	WE-10-Douglas Ave. Bridge	430		430		40		230		150	
	WE-12-Veazie St. Bridge	430		4300		150		<30.0		90	
	WE-11-West River St. Bridge	2300		2300		930		430		230	
Woonasquatucket River	W-9-Manton Ave.		40		1200		<30.0		150		930
	W-8D-Parking Bridge Olneyville		40		2300		430		2300		390
	W-8C-Delaine St.		430		930		1500		90		930
	W-7C-Eagle St.	230	90	2300	2300	750	200	40	<30.0	210	230
	<i>W-7C-Eagle St. (Duplicate)</i>		430		430		230		90		430
	W-7B-Pleasant Valley Pkwy.		70		750		90		70		430
	W-7A-Kinsley St.	2300	70	4300	1500	430	430	150	230	40	430
Providence River	PR-12-Crawford St. Bridge	3900	430	930	430	430	750	150	930	230	430
Pawtuxet River	PX-13-Broad St.	430		4300		150		90		90	
	<i>PX-13-Broad St. (Duplicate)</i>	430		4300		430		150		40	
	Field Blank	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	12/29/2020
Blackstone River	BL-2-Whipple Bridge	
	BL-4-Roosevelt St.	
	BL-4C-Central Ave.	
	BL-3-Slater Mill Dam	
Seekonk River	SR-5A-Pitman Street	750
	SR-5A-ALT-Pitman Street Tidegate Manhole	90
Moshassuck River	M-1-Higginson Ave. Bridge	150
	M-4C-Grotto Ave. Bridge	430
	M-4A-Grenville St.	390
	<i>M-4A-Grenville St. (Duplicate)</i>	230
	M-4-Cemetery St. Bridge	230
	M-5A-Stevens St. Bridge	430
	M-5-Footbridge Mill St.	230
	<i>M-5-Footbridge Mill St. (Duplicate)</i>	230
	M-6-Park Row Bridge	430
West River	WE-10-Douglas Ave. Bridge	<30.0
	WE-12-Veazie St. Bridge	90
	WE-11-West River St. Bridge	430
Woonasquatucket River	W-9-Manton Ave.	
	W-8D-Parking Bridge Olneyville	
	W-8C-Delaine St.	
	W-7C-Eagle St.	90
	<i>W-7C-Eagle St. (Duplicate)</i>	
	W-7B-Pleasant Valley Pkwy.	
	W-7A-Kinsley St.	230
Providence River	PR-12-Crawford St. Bridge	930
Pawtuxet River	PX-13-Broad St.	40
	<i>PX-13-Broad St. (Duplicate)</i>	90
	Field Blank	<30.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 37: River Fecal Coliform Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	1/6/2020	1/7/2020	1/13/2020	1/14/2020	1/21/2020	1/22/2020	1/27/2020	1/28/2020	2/3/2020	2/4/2020
Blackstone River	Whipple Bridge (BL-2)	35.9		9.6		2.0		126.7		5.2	
	Slater Mill Dam, West Bank (BL-3)	19.5		6.3		1.0		93.3		4.1	
Moshassuck River	Higginson Ave. (M-1)		9.6		3.0		4.1		54.6		6.1
	Footbridge at Mill St. (M-5)		18.3		10.9		410.6		36.4		116.9
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		13.4		16.1		298.7		54.5		131.7
	Park Row Bridge (M-6)		23.3		10.9		42		43.7		149.7
West River	Douglas Ave. Bridge (WE-10)		14.5		3.1		28.1		68.2		12
	West River St. Bridge (WE-11)		18.3		27.8		19.3		36.4		93.4
Woonasquatucket River	Manton Ave. Bridge (W-9)	10.8		4.1		3.0		23.8		2.0	
	Eagle St. Bridge (W-7C)	46.5		8.3		1.0		22.1		4.1	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	45.9		8.6		3.0		19.7		5.2	
	Kinsley St. at Park St. (W-7A)	39.1		6.2		4.1		14.8		5.2	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	2/10/2020	2/11/2020	2/18/2020	2/19/2020	2/24/2020	2/25/2020	3/2/2020	3/3/2020	3/9/2020	3/10/2020
Blackstone River	Whipple Bridge (BL-2)	6.3		4.1		2.0		6.3		1.0	
	Slater Mill Dam, West Bank (BL-3)	7.4		3.1		3.1		3.1		5.2	
Moshassuck River	Higginson Ave. (M-1)		14.2		1.0		13.2		24.3		8.4
	Footbridge at Mill St. (M-5)		1986.3		5.1		65		21.1		24.3
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		2419.6		10.9		79.4		15.8		15.5
	Park Row Bridge (M-6)		>2419.6		16.9		107.1		15.8		6.3
West River	Douglas Ave. Bridge (WE-10)		816.4		4.1		3.1		7.4		7.5
	West River St. Bridge (WE-11)		1986.3		10.8		5.2		19.5		12.8
Woonasquatucket River	Manton Ave. Bridge (W-9)	8.4		4.1		1.0		2.0		<1.0	
	Eagle St. Bridge (W-7C)	9.6		2.0		9.7		3.0		4.1	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	6.3		1.0		9.7		3.1		1.0	
	Kinsley St. at Park St. (W-7A)	4.1		1.0		86.5		3.1		2.0	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	3/16/2020	3/17/2020	3/23/2020	3/24/2020	3/30/2020	3/31/2020	4/6/2020	4/7/2020	4/13/2020	4/14/2020
Blackstone River	Whipple Bridge (BL-2)	<1.0		<1.0		77.6		6.2		10.9	
	Slater Mill Dam, West Bank (BL-3)	<1.0		4.1		59.8		14.5			
Moshassuck River	Higginson Ave. (M-1)		12.1		51.2		24.3		5.2		579.4
	Footbridge at Mill St. (M-5)		325.5		816.4		29.2		19.1		387.3
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		325.5		613.1		23.5		9.8		456.9
	Park Row Bridge (M-6)		191.8		980.4		26.5		6.3		727
West River	Douglas Ave. Bridge (WE-10)		43.9		461.1		18.3		14.5		325.5
	West River St. Bridge (WE-11)		488.4		816.4		36.4		21.1		770.1
Woonasquatucket River	Manton Ave. Bridge (W-9)	2.0		2.0		25.9		2.0		14.8	
	Eagle St. Bridge (W-7C)	<1.0		4.1		30.5		6.1		214.2	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	4.1		1.0		35.9		7.5**		199.3	
	Kinsley St. at Park St. (W-7A)	4.1		7.3		32.4		9.8		129.6	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	4/20/2020	4/21/2020	4/27/2020	4/28/2020	5/4/2020	5/5/2020	5/11/2020	5/12/2020	5/18/2020	5/19/2020
Blackstone River	Whipple Bridge (BL-2)	8.5		38.3		8.5		6.3		27.9	
	Slater Mill Dam, West Bank (BL-3)					8.6		3.1		18.3	
Moshassuck River	Higginson Ave. (M-1)		6.3		32.4		24.3		54.6		30.5
	Footbridge at Mill St. (M-5)		31.8		57.3		43.5		261.3		77.6
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		48.7		66.3		39.9		209.8		62.7
	Park Row Bridge (M-6)		29.2		88.2		48.7		161.6		79.4
West River	Douglas Ave. Bridge (WE-10)		42		43.7		39.9		222.4		88.4
	West River St. Bridge (WE-11)		47.9		85.7		53		290.9		178.2
Woonasquatucket River	Manton Ave. Bridge (W-9)	16		52.9		13.4		8.4		42.6	
	Eagle St. Bridge (W-7C)	12.1		80.9		30.1		32.3		93.5	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	14.6		85.7		21.3		37.9		73.3	
	Kinsley St. at Park St. (W-7A)	22.8		107.6		41.4		37.9		95.9	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	5/26/2020	5/27/2020	6/1/2020	6/2/2020	6/8/2020	6/9/2020	6/15/2020	6/16/2020	6/22/2020	6/23/2020
Blackstone River	Whipple Bridge (BL-2)	8.5		27.5		104.6		52.8		62.0	
	Slater Mill Dam, West Bank (BL-3)	17.1		52		155.3		77.1		124.6	
Moshassuck River	Higginson Ave. (M-1)		61.3		58.3		167.4		166.4		387.3
	Footbridge at Mill St. (M-5)		103.9		344.8		410.6		410.6		461.1
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		143.9		344.8		488.4		488.4		365.4
	Park Row Bridge (M-6)		117.8		290.9		224.7		648.8		435.2
West River	Douglas Ave. Bridge (WE-10)		143.9		290.9		360.9		435.2		686.7
	West River St. Bridge (WE-11)		172.3		249.5		658.6		648.8		816.4
Woonasquatucket River	Manton Ave. Bridge (W-9)	31.8		83.9		107.1		185.0		325.5	
	Eagle St. Bridge (W-7C)	44.3		114.5		248.1		248.1		435.2	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	46.4		124.6		307.6		325.5		435.2	
	Kinsley St. at Park St. (W-7A)	42		116.9		1119.9		547.5		816.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	6/29/2020	6/30/2020	7/6/2020	7/7/2020	7/13/2020	7/14/2020	7/20/2020	7/21/2020	7/27/2020	7/28/2020
Blackstone River	Whipple Bridge (BL-2)	>2419.6		82.0		75.4		52.9		165.8	
	Slater Mill Dam, West Bank (BL-3)	>2419.6		214.2		141.4		160.7		118.7	
Moshassuck River	Higginson Ave. (M-1)		410.6		214.3		517.2		275.5		517.2
	Footbridge at Mill St. (M-5)		>2419.6		980.4		547.5		435.2		410.6
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		1553.1		866.4		579.4		613.1		613.1
	Park Row Bridge (M-6)		2419.6		547.5		488.4		387.3		365.4
West River	Douglas Ave. Bridge (WE-10)		1011		1553.1		1732.9		2419.6		1732.9
	West River St. Bridge (WE-11)		1011		866.4		1046.2		1046.2		648.8
Woonasquatucket River	Manton Ave. Bridge (W-9)			141.4		231.0		325.5		387.3	
	Eagle St. Bridge (W-7C)	2419.6		613.1		866.4		435.2		488.4	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	2419.6		360.9		816.4		344.8		325.5	
	Kinsley St. at Park St. (W-7A)	>2419.6		770.1		980.4		517.2		344.8	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	8/3/2020	8/4/2020	8/11/2020	8/12/2020	8/17/2020	8/18/2020	8/24/2020	8/25/2020	8/31/2020	9/1/2020
Blackstone River	Whipple Bridge (BL-2)	770.1		387.3		488.4		129.6		80.9	
	Slater Mill Dam, West Bank (BL-3)	135.4		344.8		517.2		60.2		73.3	
Moshassuck River	Higginson Ave. (M-1)		648.8		435.2		>2419.6		1046.2		435.2
	Footbridge at Mill St. (M-5)		461.1		240		>2419.6		365.4		235.9
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		387.3		410.6		>2419.6		325.5		224.7
	Park Row Bridge (M-6)		686.7		344.8		>2419.6		145.5		235.9
West River	Douglas Ave. Bridge (WE-10)		1986.3		816.4		>2419.6		1299.7		686.7
	West River St. Bridge (WE-11)		686.7		214.2		>2419.6		435.2		727.0
Woonasquatucket River	Manton Ave. Bridge (W-9)	344.8		579.4		727		365.4		461.1	
	Eagle St. Bridge (W-7C)	648.8		249.5		2419.6		410.6		365.4	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	613.1		290.9		1413.6		307.6		517.2	
	Kinsley St. at Park St. (W-7A)	1732.9		1732.9		>2419.6		280.9		980.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	9/8/2020	9/9/2020	9/14/2020	9/15/2020	9/21/2020	9/22/2020	9/28/2020	9/29/2020	10/5/2020	10/6/2020
Blackstone River	Whipple Bridge (BL-2)	45.9		55.6		30.9		93.4		60.2	
	Slater Mill Dam, West Bank (BL-3)	53.8		48.8		15.8		81.6		135.4	
Moshassuck River	Higginson Ave. (M-1)		648.8		1413.6		770.1		1986.3		>2419.6
	Footbridge at Mill St. (M-5)		261.3		313.0		1986.3		141.4		307.6
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		235.9		307.6		1413.6		201.4		261.3
	Park Row Bridge (M-6)		204.6		488.4		410.6		135.4		238.2
West River	Douglas Ave. Bridge (WE-10)		648.8		1732.9		360.9		435.2		517.2
	West River St. Bridge (WE-11)		344.8		>2419.6		>2419.6		579.4		866.4
Woonasquatucket River	Manton Ave. Bridge (W-9)	260.3		248.1		110.6		325.5		156.5	
	Eagle St. Bridge (W-7C)	152.9		146.7		101.2		1986.3		1046.2	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	214.2		161.6		110.6		1732.9		1119.9	
	Kinsley St. at Park St. (W-7A)	160.7		1203.3		1986.3		>2419.6		579.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	10/13/2020	10/14/2020	10/19/2020	10/20/2020	10/26/2020	10/27/2020	11/2/2020	11/3/2020	11/9/2020
Blackstone River	Whipple Bridge (BL-2)	73.3		45.0		23.1		272.3		9.7
	Slater Mill Dam, West Bank (BL-3)	172.5		46.5		16.8		151.5		10.8
Moshassuck River	Higginson Ave. (M-1)		1203.3		579.4		648.8		344.8	
	Footbridge at Mill St. (M-5)		>2419.6		517.2		111.2		292.4	
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		>2419.6		517.2**		146.7		579.4	
	Park Row Bridge (M-6)		>2419.6		184.2		248.1		727.0	
West River	Douglas Ave. Bridge (WE-10)		2419.6		313.0		517.2		488.4	
	West River St. Bridge (WE-11)		>2419.6		517.2		461.1		1203.3	
Woonasquatucket River	Manton Ave. Bridge (W-9)	686.7		78.00		95.9		1119.9		30.9
	Eagle St. Bridge (W-7C)	>2419.6		214.2		75.4		547.5		28.5
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	>2419.6		186**		62.4		648.8		37.9**
	Kinsley St. at Park St. (W-7A)	>2419.6		517.2		248.9		1203.3		51.2
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	11/10/2020	11/16/2020	11/17/2020	11/23/2020	11/24/2020	11/30/2020	12/1/2020	12/7/2020	12/8/2020
Blackstone River	Whipple Bridge (BL-2)		517.2		35.5		28.5		461.1	
	Slater Mill Dam, West Bank (BL-3)		686.7		>2419.6		32.3		613.1	
Moshassuck River	Higginson Ave. (M-1)	178.5		285.1		648.8		>2419.6		686.7
	Footbridge at Mill St. (M-5)	435.2		549.3		1553.1		>2419.6		456.9
	<i>Footbridge at Mill St. (M-5) Duplicate</i>	325.5**		478.6**		2419.6		>2419.6		613.1
	Park Row Bridge (M-6)	178.2		574.8		1986.3		>2419.6		613.1
West River	Douglas Ave. Bridge (WE-10)	98.8		240.0		1986.3		>2419.6		178.5
	West River St. Bridge (WE-11)	238.2		501.2		1986.3		>2419.6		125.9
Woonasquatucket River	Manton Ave. Bridge (W-9)		272.3		980.4		71.2		816.4	
	Eagle St. Bridge (W-7C)		209.8		>2419.6		57.3		648.8	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>		307.6**		>2419.6		53.8		770.1	
	Kinsley St. at Park St. (W-7A)		>2419.6		>2419.6		86.5		727	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

River Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	12/14/2020	12/15/2020	12/21/2020	12/22/2020	12/28/2020	12/29/2020
Blackstone River	Whipple Bridge (BL-2)	45		39.9		435.2	
	Slater Mill Dam, West Bank (BL-3)	44.1		23.1		547.5	
Moshassuck River	Higginson Ave. (M-1)		214.2		57.3		365.4
	Footbridge at Mill St. (M-5)		118.7		30.1		186
	<i>Footbridge at Mill St. (M-5) Duplicate</i>		111.2		53.8		201.4
	Park Row Bridge (M-6)		110.6		39.9		204.6
West River	Douglas Ave. Bridge (WE-10)		60.9		125.9		93.3
	West River St. Bridge (WE-11)		56.5		31.8		191.8
Woonasquatucket River	Manton Ave. Bridge (W-9)	77.1		84.5		727	
	Eagle St. Bridge (W-7C)	151.5		25.6		456.9	
	<i>Eagle St. Bridge (W-7C) Duplicate</i>	172.6		37.9		517.2	
	Kinsley St. at Park St. (W-7A)	203.5		34.5		579.4	
	Field Blank	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

** Duplicate sample collected in rapid succession rather than simultaneous

Table 38: River Enterococci Data

Bay Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	2/5/2020	3/5/2020	5/28/2020	6/10/2020	6/24/2020	7/8/2020	7/22/2020	8/5/2020	8/19/2020	9/2/2020
Seekonk River	Division St Dock	9	23	150	430	430	230	2300	1500	4300	230
	Bishop Pt	43	43	43	150	230	230	93	2300	430	230
	Off BP Outfall	43	9	93	23	75	93	230	9300	2300	230
	Phillipsdale Landing	23	93	93	150	43	230	9	230	150	430
	<i>Phillipsdale Landing Duplicate</i>	43	93	230	43	23	430	23	430	430	23
	Narr Boating Center	15	43	150	93	43	43	9	230	150	93
	Crook Pt	9	93	93	43	23	93	23	930	150	43
Providence River	Comm. Boating Center	23	93	39	230	75	23	9	2300	150	43
	Point St Bridge	930	93	430	930	93	2300	230	110000	930	43
	Collier Pt Park	93	43	43	430	93	93	43	4300	430	23
	Off FP Outfall	210	43	23	23	23	43	4	93	430	9
	South FP East	23	23	15	9	43	9	4	75	43	<3.0
	Save the Bay	43	4	23	23	23	230	<3.0	43	93	4
	Edgewood Yacht Club	9	<3.0	9	<3.0	23	9	4	23	93	9
	Pawt/Prov Junction	150	23	23	9	43	9	9	9	430	9
	Gaspee Pt	23	4	4	4	43	4	<3.0	15	93	<3.0
	Bullock Neck	9	4	4	7	<3.0	<3.0	<3.0	<3.0	150	<3.0
	Bullocks Reach Buoy	9	15	4	9	<3.0	4	<3.0	4	43	23
	Shawomet	23	23	4	7	<3.0	4	<3.0	4	43	<3.0
	North of Nayatt Point	4	9	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	43	4
	Conimicut Pt	<3.0	4	9	<3.0	<3.0	<3.0	<3.0	<3.0	23	4
	<i>Conimicut Pt Duplicate</i>	4	23	11	<3.0	<3.0	<3.0	9	<3.0	93	<3.0
Bay Fecal Coliform Blank	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

Rain Data* (inches)	Rain total - day of sampling (in time prior to sampling)	0.08	0	0	0	0	0.03	0.06	0	0	0.05
	Rain total - 1 day prior to sampling	0	0.05	0	0	0	0	0	0.19	0.13	0
	Rain total - 2 days prior to sampling	0	0.25	0	0	0	0	0.02	0	0.01	0
	Rain total - 3 days prior to sampling	0	0	0.03	0	0	0	0	0	0.36	0
	Rain total - 4 days prior to sampling	0.06	0	0	0.1	0	0	0	0	0	0.07
	Rain total - 5 days prior to sampling	0	0	0.33	0.04	0	0.05	0.14	0.06	0	0
	Total Rainfall	0.14	0.3	0.36	0.14	0	0.08	0.22	0.25	0.5	0.12
Tides**	High Tide	4:13	3:41	12:39	12:09	11:15	11:19	10:03	10:05	8:51	8:56
	Low Tide	10:26	9:57	6:04	5:13	4:21	4:04	3:16	2:51	2:04	1:40

T = Trace rainfall

*Rain data are from TF Green

**Tide data are from USHarbors.com

Please note that sampling was limited February - May due to COVID-19 impacts.

Table 39: Bay Fecal Coliform Data

Bay Fecal Coliform Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	9/16/2020	10/1/2020	10/15/2020	10/28/2020	11/25/2020	12/9/2020	12/23/2020
Seekonk River	Division St Dock	430	930	230	43	430	430	43
	Bishop Pt	430	2300	93	23	2300	230	93
	Off BP Outfall	230	2300	75	43	430	150	43
	Phillipsdale Landing	23	230	230	93	230	150	93
	<i>Phillipsdale Landing Duplicate</i>	93	430	930	93	230	430	230
	Narr Boating Center	15	1500	120	23	430	230	
	Crook Pt	43	430	230	43	430	230	
Providence River	Comm. Boating Center	15	930	93	23	430	150	43
	Point St Bridge	430	46000	430	930	230	430	230
	Collier Pt Park	43	2100	43	93	2300	430	
	Off FP Outfall	9	230	75	93	2300	230	9
	South FP East	4	750	21	4	430	430	
	Save the Bay	4	230	23	9	93	930	
	Edgewood Yacht Club	9	430	23	9	930	390	9
	Pawt/Prov Junction	<3.0	430	23	9	430	23	23
	Gaspee Pt	7	93	43	4	930	230	
	Bullock Neck	4	43	43	<3.0	93	43	
	Bullocks Reach Buoy	9	9	15	4	430	93	9
	Shawomet	4	15	9	<3.0	230	93	
	North of Nayatt Point	4	<3.0	<3.0	<3.0	23	150	
	Conimicut Pt	23	4	9	<3.0	230	43	23
	<i>Conimicut Pt Duplicate</i>	15	4	15	<3.0	230	93	9
	Bay Fecal Coliform Blank	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Rain Data* (inches)	Rain total - day of sampling (in time prior to sampling)	0	0	0	0.1	0	0	0
	Rain total - 1 day prior to sampling	0	0.54	0	0	0.96	0	0
	Rain total - 2 days prior to sampling	0	0	1.11	T	0.41	0	0
	Rain total - 3 days prior to sampling	0	0.05	0.05	T	0	0	0.02
	Rain total - 4 days prior to sampling	0	0.04	0	0	0	2.65	0
	Rain total - 5 days prior to sampling	0	0	0	0	0	0.01	0
		Total Rainfall	0	0.63	1.16	0.1	1.37	2.66
Tides**	High Tide	7:40	8:30	7:16	6:45	4:16	1:37	1:37
	Low Tide	12:52	13:34	12:43	11:49	9:39	6:50	6:50

T = Trace rainfall

*Rain data are from TF Green

**Tide data are from USHarbors.com

Please note that sampling was limited February - May due to COVID-19 impacts.

Table 39: Bay Fecal Coliform Data

Bay Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	Station Name	2/5/2020	3/5/2020	5/28/2020	6/10/2020	6/24/2020	7/8/2020	7/22/2020	8/5/2020	8/19/2020
Seekonk River	Phillipsdale Landing	10	<10	10	31	<10	10	<10	20	10
	<i>Phillipsdale Landing Duplicate</i>	<10	<10	20	31	<10	<10	<10	<10	20
Providence River	Point St Bridge	96	<10	75	226	10	323	86	1467	199
	South FP East	<10	<10	<10	<10	10	<10	<10	10	<10
	Gaspee Pt	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Conimicut Pt	<10	<10	<10	<10	<10	<10	<10	<10	<10
	<i>Conimicut Pt Duplicate</i>	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Blank	<10	<10	<10	<10	<10	<10	<10	<10	<10

Please note that sampling was limited
February - May
due to COVID 19 impacts.

Table 40: Bay Enterococci Data

Bay Enterococci Data 2020
(MPN/100mL or Most Probable Number/100mL)

	9/2/2020	9/16/2020	10/1/2020	10/15/2020	10/28/2020	11/25/2020	12/9/2020	12/23/2020
Seekonk River	10	10	20	20	20	521	253	20
	<10	20	31	41	20	479	279	10
Providence River	20	116	1178	156	209	650	203	75
	<10	10	10	<10	<10	213	146	
	<10	<10	10	10	<10	213	96	
	<10	10	<10	<10	<10	75	74	<10
	<10	30	<10	<10	<10	75	110	<10
	<10	<10	<10	<10	<10	<10	<10	<10

Please note that sampling was limited
February - May
due to COVID 19 impacts.

Table 40: Bay Enterococci Data

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:30:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	4:30:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	4:30:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	4:30:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	4:30:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	4:30:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	4:30:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	4:30:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	4:30:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	4:30:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	4:30:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	4:30:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	4:30:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	4:30:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	4:30:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	4:30:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	4:30:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	4:30:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	4:30:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	4:30:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	4:30:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	4:30:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	4:30:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	4:30:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	4:30:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	4:30:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	4:30:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	4:30:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	4:30:00 PM	Acetone	0.00776	ppm
8/4/2020	4:30:00 PM	Acrolein	<0.001	ppm
8/4/2020	4:30:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	4:30:00 PM	Aluminum	1329	ppb
8/4/2020	4:30:00 PM	Aluminum, Dissolved	42.52	ppb
8/4/2020	4:30:00 PM	Ammonia	0.450	ppm (as N)
8/4/2020	4:30:00 PM	Anthracene	<0.005	ppm
8/4/2020	4:30:00 PM	Arsenic	1.511	ppb
8/4/2020	4:30:00 PM	Benzene	<0.001	ppm
8/4/2020	4:30:00 PM	Benzidine	<0.005	ppm
8/4/2020	4:30:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	4:30:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	4:30:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	4:30:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	4:30:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	4:30:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm
8/4/2020	4:30:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	4:30:00 PM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	BOD	31.30	mg/l
8/4/2020	4:30:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	4:30:00 PM	Bromoform	<0.001	ppm
8/4/2020	4:30:00 PM	Bromomethane	<0.002	ppm
8/4/2020	4:30:00 PM	Butylbenzyl phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	Cadmium	0.2292	ppb
8/4/2020	4:30:00 PM	Cadmium, Dissolved	0.04521	ppb

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:30:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	4:30:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	4:30:00 PM	Chloroethane	<0.001	ppm
8/4/2020	4:30:00 PM	Chloroform	<0.001	ppm
8/4/2020	4:30:00 PM	Chloromethane	<0.001	ppm
8/4/2020	4:30:00 PM	Chromium	6.189	ppb
8/4/2020	4:30:00 PM	Chromium, Dissolved	1.880	ppb
8/4/2020	4:30:00 PM	Chrysene	<0.005	ppm
8/4/2020	4:30:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:30:00 PM	Copper	28.77	ppb
8/4/2020	4:30:00 PM	Copper, Dissolved	12.77	ppb
8/4/2020	4:30:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	4:30:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	4:30:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	4:30:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	4:30:00 PM	Enterococci	>24196.0	MPN/100 mL
8/4/2020	4:30:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	4:30:00 PM	Fecal Coliform	>240000.0	MPN/100 mL
8/4/2020	4:30:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	4:30:00 PM	Fluorene	<0.005	ppm
8/4/2020	4:30:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	4:30:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	4:30:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	4:30:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	4:30:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	4:30:00 PM	Iron	2759	ppb
8/4/2020	4:30:00 PM	Iron, Dissolved	247.9	ppb
8/4/2020	4:30:00 PM	Isophorone	<0.005	ppm
8/4/2020	4:30:00 PM	Lead	66.49	ppb
8/4/2020	4:30:00 PM	Lead, Dissolved	4.000	ppb
8/4/2020	4:30:00 PM	Mercury	6.70	ppt
8/4/2020	4:30:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	4:30:00 PM	Molybdenum	3.334	ppb
8/4/2020	4:30:00 PM	Naphthalene	<0.005	ppm
8/4/2020	4:30:00 PM	Nickel	4.888	ppb
8/4/2020	4:30:00 PM	Nickel, Dissolved	2.114	ppb
8/4/2020	4:30:00 PM	Nitrate	0.772	ppm (as N)
8/4/2020	4:30:00 PM	Nitrate+Nitrite	0.795	ppm (as N)
8/4/2020	4:30:00 PM	Nitrite	0.0234	ppm (as N)
8/4/2020	4:30:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	4:30:00 PM	Nitrogen, Total	4.86	ppm (as N)
8/4/2020	4:30:00 PM	Nitrogen, Total Kjeldahl	4.06	ppm (as N)
8/4/2020	4:30:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	4:30:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	4:30:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	4:30:00 PM	Oil and Grease	<4.000	ppm
8/4/2020	4:30:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	4:30:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	4:30:00 PM	Phenol	<0.005	ppm
8/4/2020	4:30:00 PM	Phosphorous, Total	0.582	ppm
8/4/2020	4:30:00 PM	Pyrene	<0.005	ppm
8/4/2020	4:30:00 PM	Selenium	<1.000	ppb
8/4/2020	4:30:00 PM	Silver	0.1192	ppb
8/4/2020	4:30:00 PM	Silver, Dissolved	<0.020	ppb
8/4/2020	4:30:00 PM	Tetrachloroethene	<0.001	ppm

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:30:00 PM	Toluene	0.00127	ppm
8/4/2020	4:30:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	4:30:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:30:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	4:30:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	4:30:00 PM	TSS	101.00	mg/l
8/4/2020	4:30:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	4:30:00 PM	Zinc	164.7	ppb
8/4/2020	4:30:00 PM	Zinc, Dissolved	39.13	ppb
8/4/2020	4:55:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	4:55:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	4:55:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	4:55:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	4:55:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	4:55:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	4:55:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	4:55:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	4:55:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	4:55:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	4:55:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	4:55:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	4:55:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	4:55:00 PM	Acetone	0.00414	ppm
8/4/2020	4:55:00 PM	Acrolein	<0.001	ppm
8/4/2020	4:55:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	4:55:00 PM	Aluminum	1803	ppb
8/4/2020	4:55:00 PM	Aluminum, Dissolved	26.79	ppb
8/4/2020	4:55:00 PM	Ammonia	0.196	ppm (as N)
8/4/2020	4:55:00 PM	Anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Arsenic	1.419	ppb
8/4/2020	4:55:00 PM	Benzene	<0.001	ppm
8/4/2020	4:55:00 PM	Benzidine	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:55:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	4:55:00 PM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	BOD	<11.99	mg/l
8/4/2020	4:55:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Bromoform	<0.001	ppm
8/4/2020	4:55:00 PM	Bromomethane	<0.002	ppm
8/4/2020	4:55:00 PM	Butylbenzyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Cadmium	0.2818	ppb
8/4/2020	4:55:00 PM	Cadmium, Dissolved	0.05676	ppb
8/4/2020	4:55:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	4:55:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	Chloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	Chloroform	<0.001	ppm
8/4/2020	4:55:00 PM	Chloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Chromium	9.925	ppb
8/4/2020	4:55:00 PM	Chromium, Dissolved	5.275	ppb
8/4/2020	4:55:00 PM	Chrysene	<0.005	ppm
8/4/2020	4:55:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:55:00 PM	Copper	29.17	ppb
8/4/2020	4:55:00 PM	Copper, Dissolved	10.06	ppb
8/4/2020	4:55:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	4:55:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Enterococci	>24196.0	MPN/100 mL
8/4/2020	4:55:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	4:55:00 PM	Fecal Coliform	24000.0	MPN/100 mL
8/4/2020	4:55:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Fluorene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	4:55:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Iron	3575	ppb
8/4/2020	4:55:00 PM	Iron, Dissolved	150.7	ppb
8/4/2020	4:55:00 PM	Isophorone	<0.005	ppm
8/4/2020	4:55:00 PM	Lead	66.55	ppb
8/4/2020	4:55:00 PM	Lead, Dissolved	2.619	ppb
8/4/2020	4:55:00 PM	Mercury	3.92	ppt
8/4/2020	4:55:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	4:55:00 PM	Molybdenum	1.922	ppb
8/4/2020	4:55:00 PM	Naphthalene	<0.005	ppm
8/4/2020	4:55:00 PM	Nickel	5.236	ppb
8/4/2020	4:55:00 PM	Nickel, Dissolved	1.522	ppb
8/4/2020	4:55:00 PM	Nitrate	1.22	ppm (as N)
8/4/2020	4:55:00 PM	Nitrate+Nitrite	1.23	ppm (as N)
8/4/2020	4:55:00 PM	Nitrite	0.0122	ppm (as N)
8/4/2020	4:55:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	Nitrogen, Total	3.25	ppm (as N)
8/4/2020	4:55:00 PM	Nitrogen, Total Kjeldahl	2.02	ppm (as N)
8/4/2020	4:55:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	4:55:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	4:55:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	4:55:00 PM	Oil and Grease	<4.000	ppm

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:55:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	4:55:00 PM	Phenol	<0.005	ppm
8/4/2020	4:55:00 PM	Phosphorous, Total	0.323	ppm
8/4/2020	4:55:00 PM	Pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Selenium	<1.000	ppb
8/4/2020	4:55:00 PM	Silver	0.2430	ppb
8/4/2020	4:55:00 PM	Silver, Dissolved	<0.020	ppb
8/4/2020	4:55:00 PM	Tetrachloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	Toluene	<0.001	ppm
8/4/2020	4:55:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:55:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	4:55:00 PM	TSS	110.00	mg/l
8/4/2020	4:55:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	4:55:00 PM	Zinc	138.2	ppb
8/4/2020	4:55:00 PM	Zinc, Dissolved	41.14	ppb
8/4/2020	5:15:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	5:15:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	5:15:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	5:15:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	5:15:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	5:15:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	5:15:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	5:15:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	5:15:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	5:15:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	5:15:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	5:15:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	5:15:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	5:15:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	5:15:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	5:15:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	5:15:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	5:15:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	5:15:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	5:15:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	5:15:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	5:15:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	5:15:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	5:15:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	5:15:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	5:15:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	5:15:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	5:15:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	5:15:00 PM	Acetone	0.00675	ppm
8/4/2020	5:15:00 PM	Acrolein	<0.001	ppm
8/4/2020	5:15:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	5:15:00 PM	Aluminum	1821	ppb
8/4/2020	5:15:00 PM	Aluminum, Dissolved	27.10	ppb
8/4/2020	5:15:00 PM	Ammonia	0.239	ppm (as N)
8/4/2020	5:15:00 PM	Anthracene	<0.005	ppm

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:15:00 PM	Arsenic	1.354	ppb
8/4/2020	5:15:00 PM	Benzene	<0.001	ppm
8/4/2020	5:15:00 PM	Benzidine	<0.005	ppm
8/4/2020	5:15:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	5:15:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	5:15:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	5:15:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	5:15:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	5:15:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm
8/4/2020	5:15:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	5:15:00 PM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	BOD	37.86	mg/l
8/4/2020	5:15:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	5:15:00 PM	Bromoform	<0.001	ppm
8/4/2020	5:15:00 PM	Bromomethane	<0.002	ppm
8/4/2020	5:15:00 PM	Butylbenzyl phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	Cadmium	0.2546	ppb
8/4/2020	5:15:00 PM	Cadmium, Dissolved	0.02815	ppb
8/4/2020	5:15:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	5:15:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	5:15:00 PM	Chloroethane	<0.001	ppm
8/4/2020	5:15:00 PM	Chloroform	<0.001	ppm
8/4/2020	5:15:00 PM	Chloromethane	<0.001	ppm
8/4/2020	5:15:00 PM	Chromium	8.801	ppb
8/4/2020	5:15:00 PM	Chromium, Dissolved	3.937	ppb
8/4/2020	5:15:00 PM	Chrysene	<0.005	ppm
8/4/2020	5:15:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:15:00 PM	Copper	25.67	ppb
8/4/2020	5:15:00 PM	Copper, Dissolved	7.388	ppb
8/4/2020	5:15:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	5:15:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	5:15:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	5:15:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	5:15:00 PM	Enterococci	24196.0	MPN/100 mL
8/4/2020	5:15:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	5:15:00 PM	Fecal Coliform	110000.0	MPN/100 mL
8/4/2020	5:15:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	5:15:00 PM	Fluorene	<0.005	ppm
8/4/2020	5:15:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	5:15:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	5:15:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	5:15:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	5:15:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	5:15:00 PM	Iron	3317	ppb
8/4/2020	5:15:00 PM	Iron, Dissolved	124.3	ppb
8/4/2020	5:15:00 PM	Isophorone	<0.005	ppm
8/4/2020	5:15:00 PM	Lead	104.0	ppb
8/4/2020	5:15:00 PM	Lead, Dissolved	4.185	ppb
8/4/2020	5:15:00 PM	Mercury	6.12	ppt
8/4/2020	5:15:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	5:15:00 PM	Molybdenum	1.160	ppb
8/4/2020	5:15:00 PM	Naphthalene	<0.005	ppm
8/4/2020	5:15:00 PM	Nickel	4.726	ppb
8/4/2020	5:15:00 PM	Nickel, Dissolved	1.063	ppb
8/4/2020	5:15:00 PM	Nitrate	0.496	ppm (as N)

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:15:00 PM	Nitrate+Nitrite	0.508	ppm (as N)
8/4/2020	5:15:00 PM	Nitrite	0.0121	ppm (as N)
8/4/2020	5:15:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	5:15:00 PM	Nitrogen, Total	2.78	ppm (as N)
8/4/2020	5:15:00 PM	Nitrogen, Total Kjeldahl	2.27	ppm (as N)
8/4/2020	5:15:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	5:15:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	5:15:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	5:15:00 PM	Oil and Grease	<4.000	ppm
8/4/2020	5:15:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	5:15:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	5:15:00 PM	Phenol	<0.005	ppm
8/4/2020	5:15:00 PM	Phosphorous, Total	0.392	ppm
8/4/2020	5:15:00 PM	Pyrene	<0.005	ppm
8/4/2020	5:15:00 PM	Selenium	<1.000	ppb
8/4/2020	5:15:00 PM	Silver	0.1431	ppb
8/4/2020	5:15:00 PM	Silver, Dissolved	<0.020	ppb
8/4/2020	5:15:00 PM	Tetrachloroethene	<0.001	ppm
8/4/2020	5:15:00 PM	Toluene	0.00110	ppm
8/4/2020	5:15:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	5:15:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:15:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	5:15:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	5:15:00 PM	TSS	96.500	mg/l
8/4/2020	5:15:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	5:15:00 PM	Zinc	141.1	ppb
8/4/2020	5:15:00 PM	Zinc, Dissolved	26.69	ppb

Table 41: CSO Wet Weather Overflow Atwells Avenue NBC CSO 048

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	9:45:03 AM	(m & p) Xylene	<0.002	ppm
11/23/2020	9:45:03 AM	(o) Xylene	<0.001	ppm
11/23/2020	9:45:03 AM	1,1,1-Trichloroethane	<0.001	ppm
11/23/2020	9:45:03 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/23/2020	9:45:03 AM	1,1,2-Trichloroethane	<0.001	ppm
11/23/2020	9:45:03 AM	1,1-Dichloroethane	<0.001	ppm
11/23/2020	9:45:03 AM	1,1-Dichloroethene	<0.001	ppm
11/23/2020	9:45:03 AM	1,2,4-Trichlorobenzene	<0.005	ppm
11/23/2020	9:45:03 AM	1,2-Dichlorobenzene	<0.001	ppm
11/23/2020	9:45:03 AM	1,2-Dichloroethane	<0.001	ppm
11/23/2020	9:45:03 AM	1,2-Dichloropropane	<0.001	ppm
11/23/2020	9:45:03 AM	1,2-Diphenylhydrazine	<0.005	ppm
11/23/2020	9:45:03 AM	1,3-Dichlorobenzene	<0.001	ppm
11/23/2020	9:45:03 AM	1,4-Dichlorobenzene	<0.001	ppm
11/23/2020	9:45:03 AM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
11/23/2020	9:45:03 AM	2,4,6-Trichlorophenol	<0.005	ppm
11/23/2020	9:45:03 AM	2,4-Dichlorophenol	<0.005	ppm
11/23/2020	9:45:03 AM	2,4-Dimethylphenol	<0.005	ppm
11/23/2020	9:45:03 AM	2,4-Dinitrophenol	<0.005	ppm
11/23/2020	9:45:03 AM	2,4-Dinitrotoluene	<0.005	ppm
11/23/2020	9:45:03 AM	2,6-Dinitrotoluene	<0.005	ppm
11/23/2020	9:45:03 AM	2-Chloroethylvinylether	<0.001	ppm
11/23/2020	9:45:03 AM	2-Chloronaphthalene	<0.005	ppm
11/23/2020	9:45:03 AM	2-Chlorophenol	<0.005	ppm
11/23/2020	9:45:03 AM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
11/23/2020	9:45:03 AM	2-Nitrophenol	<0.005	ppm
11/23/2020	9:45:03 AM	3,3'-Dichlorobenzidine	<0.005	ppm
11/23/2020	9:45:03 AM	4-Bromophenyl phenyl ether	<0.005	ppm
11/23/2020	9:45:03 AM	4-Chloro-3-methylphenol	<0.005	ppm
11/23/2020	9:45:03 AM	4-Chlorophenyl phenyl ether	<0.005	ppm
11/23/2020	9:45:03 AM	4-Nitrophenol	<0.005	ppm
11/23/2020	9:45:03 AM	Acenaphthene	<0.005	ppm
11/23/2020	9:45:03 AM	Acenaphthylene	<0.005	ppm
11/23/2020	9:45:03 AM	Acetone	0.0159	ppm
11/23/2020	9:45:03 AM	Acrolein	<0.001	ppm
11/23/2020	9:45:03 AM	Acrylonitrile	<0.001	ppm
11/23/2020	9:45:03 AM	Aluminum	1692	ppb
11/23/2020	9:45:03 AM	Aluminum, Dissolved	62.27	ppb
11/23/2020	9:45:03 AM	Ammonia	1.30	ppm (as N)
11/23/2020	9:45:03 AM	Anthracene	<0.005	ppm
11/23/2020	9:45:03 AM	Arsenic	1.420	ppb
11/23/2020	9:45:03 AM	Benzene	<0.001	ppm
11/23/2020	9:45:03 AM	Benzidine	<0.005	ppm
11/23/2020	9:45:03 AM	Benzo(a)anthracene	<0.005	ppm
11/23/2020	9:45:03 AM	Benzo(a)pyrene	<0.005	ppm
11/23/2020	9:45:03 AM	Benzo(b)fluoranthene	<0.005	ppm
11/23/2020	9:45:03 AM	Benzo(g,h,i)perylene	<0.005	ppm
11/23/2020	9:45:03 AM	Benzo(k)fluoranthene	<0.005	ppm
11/23/2020	9:45:03 AM	Bis(2-Chloroethoxy)methane	<0.005	ppm
11/23/2020	9:45:03 AM	bis(2-Chloroethyl)Ether	<0.005	ppm
11/23/2020	9:45:03 AM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	BOD	19.13	mg/l
11/23/2020	9:45:03 AM	Bromodichloromethane	<0.001	ppm
11/23/2020	9:45:03 AM	Bromoform	<0.001	ppm
11/23/2020	9:45:03 AM	Bromomethane	<0.002	ppm
11/23/2020	9:45:03 AM	Butylbenzyl phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	Cadmium	0.2422	ppb
11/23/2020	9:45:03 AM	Cadmium, Dissolved	<0.020	ppb

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	9:45:03 AM	Carbon Tetrachloride	<0.001	ppm
11/23/2020	9:45:03 AM	Chlorobenzene	<0.001	ppm
11/23/2020	9:45:03 AM	Chloroethane	0.00767	ppm
11/23/2020	9:45:03 AM	Chloroform	<0.001	ppm
11/23/2020	9:45:03 AM	Chloromethane	<0.001	ppm
11/23/2020	9:45:03 AM	Chromium	8.727	ppb
11/23/2020	9:45:03 AM	Chromium, Dissolved	2.026	ppb
11/23/2020	9:45:03 AM	Chrysene	<0.005	ppm
11/23/2020	9:45:03 AM	cis-1,3-Dichloropropene	<0.001	ppm
11/23/2020	9:45:03 AM	Copper	31.12	ppb
11/23/2020	9:45:03 AM	Copper, Dissolved	3.279	ppb
11/23/2020	9:45:03 AM	Cyanide, Total	<4.000	ppb
11/23/2020	9:45:03 AM	Dibenzo(a,h)anthracene	<0.005	ppm
11/23/2020	9:45:03 AM	Dibromochloromethane	<0.001	ppm
11/23/2020	9:45:03 AM	Diethyl phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	Dimethyl phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	Di-n-butyl phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	Di-n-octyl phthalate	<0.005	ppm
11/23/2020	9:45:03 AM	Enterococci	>24196.0	MPN/100 mL
11/23/2020	9:45:03 AM	Ethylbenzene	<0.001	ppm
11/23/2020	9:45:03 AM	Fecal Coliform	>240000.0	MPN/100 mL
11/23/2020	9:45:03 AM	Fluoranthene	<0.005	ppm
11/23/2020	9:45:03 AM	Fluorene	<0.005	ppm
11/23/2020	9:45:03 AM	Hexachlorobenzene	<0.005	ppm
11/23/2020	9:45:03 AM	Hexachlorobutadiene	<0.005	ppm
11/23/2020	9:45:03 AM	Hexachlorocyclopentadiene	<0.005	ppm
11/23/2020	9:45:03 AM	Hexachloroethane	<0.005	ppm
11/23/2020	9:45:03 AM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
11/23/2020	9:45:03 AM	Iron	2544	ppb
11/23/2020	9:45:03 AM	Iron, Dissolved	112.6	ppb
11/23/2020	9:45:03 AM	Isophorone	<0.005	ppm
11/23/2020	9:45:03 AM	Lead	67.06	ppb
11/23/2020	9:45:03 AM	Lead, Dissolved	1.896	ppb
11/23/2020	9:45:03 AM	Mercury	16.0	ppt
11/23/2020	9:45:03 AM	Methylene Chloride	<0.001	ppm
11/23/2020	9:45:03 AM	Molybdenum	1.506	ppb
11/23/2020	9:45:03 AM	Naphthalene	<0.005	ppm
11/23/2020	9:45:03 AM	Nickel	4.563	ppb
11/23/2020	9:45:03 AM	Nickel, Dissolved	0.6762	ppb
11/23/2020	9:45:03 AM	Nitrate	0.148	ppm (as N)
11/23/2020	9:45:03 AM	Nitrate+Nitrite	0.166	ppm (as N)
11/23/2020	9:45:03 AM	Nitrite	0.0183	ppm (as N)
11/23/2020	9:45:03 AM	Nitrobenzene	<0.005	ppm
11/23/2020	9:45:03 AM	Nitrogen, Total	4.16	ppm (as N)
11/23/2020	9:45:03 AM	Nitrogen, Total Kjeldahl	3.99	ppm (as N)
11/23/2020	9:45:03 AM	N-nitrosodi-n-propylamine	<0.005	ppm
11/23/2020	9:45:03 AM	N-nitrosodimethylamine	<0.005	ppm
11/23/2020	9:45:03 AM	N-nitrosodiphenylamine	<0.005	ppm
11/23/2020	9:45:03 AM	Oil and Grease	5.393	ppm
11/23/2020	9:45:03 AM	Pentachlorophenol	<0.005	ppm
11/23/2020	9:45:03 AM	Phenanthrene	<0.005	ppm
11/23/2020	9:45:03 AM	Phenol	<0.005	ppm
11/23/2020	9:45:03 AM	Phosphorous, Total	0.718	ppm
11/23/2020	9:45:03 AM	Pyrene	<0.005	ppm
11/23/2020	9:45:03 AM	Selenium	<1.000	ppb
11/23/2020	9:45:03 AM	Silver	0.6572	ppb
11/23/2020	9:45:03 AM	Silver, Dissolved	<0.020	ppb
11/23/2020	9:45:03 AM	Tetrachloroethene	<0.001	ppm

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	9:45:03 AM	Toluene	0.00108	ppm
11/23/2020	9:45:03 AM	trans-1,2-Dichloroethene	<0.001	ppm
11/23/2020	9:45:03 AM	trans-1,3-Dichloropropene	<0.001	ppm
11/23/2020	9:45:03 AM	Trichloroethene	<0.001	ppm
11/23/2020	9:45:03 AM	Trichlorofluoromethane	<0.001	ppm
11/23/2020	9:45:03 AM	TSS	77.500	mg/l
11/23/2020	9:45:03 AM	Vinyl Chloride	<0.001	ppm
11/23/2020	9:45:03 AM	Zinc	116.7	ppb
11/23/2020	9:45:03 AM	Zinc, Dissolved	17.82	ppb
11/23/2020	10:15:00 AM	(m & p) Xylene	<0.002	ppm
11/23/2020	10:15:00 AM	(o) Xylene	<0.001	ppm
11/23/2020	10:15:00 AM	1,1,1-Trichloroethane	<0.001	ppm
11/23/2020	10:15:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/23/2020	10:15:00 AM	1,1,2-Trichloroethane	<0.001	ppm
11/23/2020	10:15:00 AM	1,1-Dichloroethane	<0.001	ppm
11/23/2020	10:15:00 AM	1,1-Dichloroethene	<0.001	ppm
11/23/2020	10:15:00 AM	1,2,4-Trichlorobenzene	<0.005	ppm
11/23/2020	10:15:00 AM	1,2-Dichlorobenzene	<0.001	ppm
11/23/2020	10:15:00 AM	1,2-Dichloroethane	<0.001	ppm
11/23/2020	10:15:00 AM	1,2-Dichloropropane	<0.001	ppm
11/23/2020	10:15:00 AM	1,2-Diphenylhydrazine	<0.005	ppm
11/23/2020	10:15:00 AM	1,3-Dichlorobenzene	<0.001	ppm
11/23/2020	10:15:00 AM	1,4-Dichlorobenzene	<0.001	ppm
11/23/2020	10:15:00 AM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
11/23/2020	10:15:00 AM	2,4,6-Trichlorophenol	<0.005	ppm
11/23/2020	10:15:00 AM	2,4-Dichlorophenol	<0.005	ppm
11/23/2020	10:15:00 AM	2,4-Dimethylphenol	<0.005	ppm
11/23/2020	10:15:00 AM	2,4-Dinitrophenol	<0.005	ppm
11/23/2020	10:15:00 AM	2,4-Dinitrotoluene	<0.005	ppm
11/23/2020	10:15:00 AM	2,6-Dinitrotoluene	<0.005	ppm
11/23/2020	10:15:00 AM	2-Chloroethylvinylether	<0.001	ppm
11/23/2020	10:15:00 AM	2-Chloronaphthalene	<0.005	ppm
11/23/2020	10:15:00 AM	2-Chlorophenol	<0.005	ppm
11/23/2020	10:15:00 AM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
11/23/2020	10:15:00 AM	2-Nitrophenol	<0.005	ppm
11/23/2020	10:15:00 AM	3,3'-Dichlorobenzidine	<0.005	ppm
11/23/2020	10:15:00 AM	4-Bromophenyl phenyl ether	<0.005	ppm
11/23/2020	10:15:00 AM	4-Chloro-3-methylphenol	<0.005	ppm
11/23/2020	10:15:00 AM	4-Chlorophenyl phenyl ether	<0.005	ppm
11/23/2020	10:15:00 AM	4-Nitrophenol	<0.005	ppm
11/23/2020	10:15:00 AM	Acenaphthene	<0.005	ppm
11/23/2020	10:15:00 AM	Acenaphthylene	<0.005	ppm
11/23/2020	10:15:00 AM	Acetone	0.0284	ppm
11/23/2020	10:15:00 AM	Acrolein	<0.001	ppm
11/23/2020	10:15:00 AM	Acrylonitrile	<0.001	ppm
11/23/2020	10:15:00 AM	Aluminum	1320	ppb
11/23/2020	10:15:00 AM	Aluminum, Dissolved	67.03	ppb
11/23/2020	10:15:00 AM	Ammonia	3.53	ppm (as N)
11/23/2020	10:15:00 AM	Anthracene	<0.005	ppm
11/23/2020	10:15:00 AM	Arsenic	1.231	ppb
11/23/2020	10:15:00 AM	Benzene	<0.001	ppm
11/23/2020	10:15:00 AM	Benzidine	<0.005	ppm
11/23/2020	10:15:00 AM	Benzo(a)anthracene	<0.005	ppm
11/23/2020	10:15:00 AM	Benzo(a)pyrene	<0.005	ppm
11/23/2020	10:15:00 AM	Benzo(b)fluoranthene	<0.005	ppm
11/23/2020	10:15:00 AM	Benzo(g,h,i)perylene	<0.005	ppm
11/23/2020	10:15:00 AM	Benzo(k)fluoranthene	<0.005	ppm
11/23/2020	10:15:00 AM	Bis(2-Chloroethoxy)methane	<0.005	ppm

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	10:15:00 AM	bis(2-Chloroethyl)Ether	<0.005	ppm
11/23/2020	10:15:00 AM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	BOD	28.85	mg/l
11/23/2020	10:15:00 AM	Bromodichloromethane	<0.001	ppm
11/23/2020	10:15:00 AM	Bromoform	<0.001	ppm
11/23/2020	10:15:00 AM	Bromomethane	<0.002	ppm
11/23/2020	10:15:00 AM	Butylbenzyl phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	Cadmium	0.1593	ppb
11/23/2020	10:15:00 AM	Cadmium, Dissolved	<0.020	ppb
11/23/2020	10:15:00 AM	Carbon Tetrachloride	<0.001	ppm
11/23/2020	10:15:00 AM	Chlorobenzene	<0.001	ppm
11/23/2020	10:15:00 AM	Chloroethane	0.00729	ppm
11/23/2020	10:15:00 AM	Chloroform	<0.001	ppm
11/23/2020	10:15:00 AM	Chloromethane	<0.001	ppm
11/23/2020	10:15:00 AM	Chromium	6.030	ppb
11/23/2020	10:15:00 AM	Chromium, Dissolved	2.468	ppb
11/23/2020	10:15:00 AM	Chrysene	<0.005	ppm
11/23/2020	10:15:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
11/23/2020	10:15:00 AM	Copper	25.19	ppb
11/23/2020	10:15:00 AM	Copper, Dissolved	4.652	ppb
11/23/2020	10:15:00 AM	Cyanide, Total	<4.000	ppb
11/23/2020	10:15:00 AM	Dibenzo(a,h)anthracene	<0.005	ppm
11/23/2020	10:15:00 AM	Dibromochloromethane	<0.001	ppm
11/23/2020	10:15:00 AM	Diethyl phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	Dimethyl phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	Di-n-butyl phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	Di-n-octyl phthalate	<0.005	ppm
11/23/2020	10:15:00 AM	Enterococci	>24196.0	MPN/100 mL
11/23/2020	10:15:00 AM	Ethylbenzene	<0.001	ppm
11/23/2020	10:15:00 AM	Fecal Coliform	>240000.0	MPN/100 mL
11/23/2020	10:15:00 AM	Fluoranthene	<0.005	ppm
11/23/2020	10:15:00 AM	Fluorene	<0.005	ppm
11/23/2020	10:15:00 AM	Hexachlorobenzene	<0.005	ppm
11/23/2020	10:15:00 AM	Hexachlorobutadiene	<0.005	ppm
11/23/2020	10:15:00 AM	Hexachlorocyclopentadiene	<0.005	ppm
11/23/2020	10:15:00 AM	Hexachloroethane	<0.005	ppm
11/23/2020	10:15:00 AM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
11/23/2020	10:15:00 AM	Iron	2001	ppb
11/23/2020	10:15:00 AM	Iron, Dissolved	154.2	ppb
11/23/2020	10:15:00 AM	Isophorone	<0.005	ppm
11/23/2020	10:15:00 AM	Lead	39.24	ppb
11/23/2020	10:15:00 AM	Lead, Dissolved	1.915	ppb
11/23/2020	10:15:00 AM	Mercury	3.50	ppt
11/23/2020	10:15:00 AM	Methylene Chloride	<0.001	ppm
11/23/2020	10:15:00 AM	Molybdenum	1.180	ppb
11/23/2020	10:15:00 AM	Naphthalene	<0.005	ppm
11/23/2020	10:15:00 AM	Nickel	3.941	ppb
11/23/2020	10:15:00 AM	Nickel, Dissolved	0.8820	ppb
11/23/2020	10:15:00 AM	Nitrate	0.143	ppm (as N)
11/23/2020	10:15:00 AM	Nitrate+Nitrite	0.159	ppm (as N)
11/23/2020	10:15:00 AM	Nitrite	0.0161	ppm (as N)
11/23/2020	10:15:00 AM	Nitrobenzene	<0.005	ppm
11/23/2020	10:15:00 AM	Nitrogen, Total	6.89	ppm (as N)
11/23/2020	10:15:00 AM	Nitrogen, Total Kjeldahl	6.73	ppm (as N)
11/23/2020	10:15:00 AM	N-nitrosodi-n-propylamine	<0.005	ppm
11/23/2020	10:15:00 AM	N-nitrosodimethylamine	<0.005	ppm
11/23/2020	10:15:00 AM	N-nitrosodiphenylamine	<0.005	ppm
11/23/2020	10:15:00 AM	Oil and Grease	6.966	ppm

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	10:15:00 AM	Pentachlorophenol	<0.005	ppm
11/23/2020	10:15:00 AM	Phenanthrene	<0.005	ppm
11/23/2020	10:15:00 AM	Phenol	<0.005	ppm
11/23/2020	10:15:00 AM	Phosphorous, Total	0.949	ppm
11/23/2020	10:15:00 AM	Pyrene	<0.005	ppm
11/23/2020	10:15:00 AM	Selenium	<1.000	ppb
11/23/2020	10:15:00 AM	Silver	0.5283	ppb
11/23/2020	10:15:00 AM	Silver, Dissolved	0.02719	ppb
11/23/2020	10:15:00 AM	Tetrachloroethene	<0.001	ppm
11/23/2020	10:15:00 AM	Toluene	0.00140	ppm
11/23/2020	10:15:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
11/23/2020	10:15:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
11/23/2020	10:15:00 AM	Trichloroethene	<0.001	ppm
11/23/2020	10:15:00 AM	Trichlorofluoromethane	<0.001	ppm
11/23/2020	10:15:00 AM	TSS	50.500	mg/l
11/23/2020	10:15:00 AM	Vinyl Chloride	<0.001	ppm
11/23/2020	10:15:00 AM	Zinc	87.98	ppb
11/23/2020	10:15:00 AM	Zinc, Dissolved	17.28	ppb
11/23/2020	10:45:00 AM	(m & p) Xylene	<0.002	ppm
11/23/2020	10:45:00 AM	(o) Xylene	<0.001	ppm
11/23/2020	10:45:00 AM	1,1,1-Trichloroethane	<0.001	ppm
11/23/2020	10:45:00 AM	1,1,2,2-Tetrachloroethane	<0.001	ppm
11/23/2020	10:45:00 AM	1,1,2-Trichloroethane	<0.001	ppm
11/23/2020	10:45:00 AM	1,1-Dichloroethane	<0.001	ppm
11/23/2020	10:45:00 AM	1,1-Dichloroethene	<0.001	ppm
11/23/2020	10:45:00 AM	1,2,4-Trichlorobenzene	<0.005	ppm
11/23/2020	10:45:00 AM	1,2-Dichlorobenzene	<0.001	ppm
11/23/2020	10:45:00 AM	1,2-Dichloroethane	<0.001	ppm
11/23/2020	10:45:00 AM	1,2-Dichloropropane	<0.001	ppm
11/23/2020	10:45:00 AM	1,2-Diphenylhydrazine	<0.005	ppm
11/23/2020	10:45:00 AM	1,3-Dichlorobenzene	<0.001	ppm
11/23/2020	10:45:00 AM	1,4-Dichlorobenzene	<0.001	ppm
11/23/2020	10:45:00 AM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
11/23/2020	10:45:00 AM	2,4,6-Trichlorophenol	<0.005	ppm
11/23/2020	10:45:00 AM	2,4-Dichlorophenol	<0.005	ppm
11/23/2020	10:45:00 AM	2,4-Dimethylphenol	<0.005	ppm
11/23/2020	10:45:00 AM	2,4-Dinitrophenol	<0.005	ppm
11/23/2020	10:45:00 AM	2,4-Dinitrotoluene	<0.005	ppm
11/23/2020	10:45:00 AM	2,6-Dinitrotoluene	<0.005	ppm
11/23/2020	10:45:00 AM	2-Chloroethylvinylether	<0.001	ppm
11/23/2020	10:45:00 AM	2-Chloronaphthalene	<0.005	ppm
11/23/2020	10:45:00 AM	2-Chlorophenol	<0.005	ppm
11/23/2020	10:45:00 AM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
11/23/2020	10:45:00 AM	2-Nitrophenol	<0.005	ppm
11/23/2020	10:45:00 AM	3,3'-Dichlorobenzidine	<0.005	ppm
11/23/2020	10:45:00 AM	4-Bromophenyl phenyl ether	<0.005	ppm
11/23/2020	10:45:00 AM	4-Chloro-3-methylphenol	<0.005	ppm
11/23/2020	10:45:00 AM	4-Chlorophenyl phenyl ether	<0.005	ppm
11/23/2020	10:45:00 AM	4-Nitrophenol	<0.005	ppm
11/23/2020	10:45:00 AM	Acenaphthene	<0.005	ppm
11/23/2020	10:45:00 AM	Acenaphthylene	<0.005	ppm
11/23/2020	10:45:00 AM	Acetone	0.0205	ppm
11/23/2020	10:45:00 AM	Acrolein	<0.001	ppm
11/23/2020	10:45:00 AM	Acrylonitrile	<0.001	ppm
11/23/2020	10:45:00 AM	Aluminum	465.7	ppb
11/23/2020	10:45:00 AM	Aluminum, Dissolved	42.25	ppb
11/23/2020	10:45:00 AM	Ammonia	2.17	ppm (as N)
11/23/2020	10:45:00 AM	Anthracene	<0.005	ppm

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	10:45:00 AM	Arsenic	0.6072	ppb
11/23/2020	10:45:00 AM	Benzene	<0.001	ppm
11/23/2020	10:45:00 AM	Benidine	<0.005	ppm
11/23/2020	10:45:00 AM	Benzo(a)anthracene	<0.005	ppm
11/23/2020	10:45:00 AM	Benzo(a)pyrene	<0.005	ppm
11/23/2020	10:45:00 AM	Benzo(b)fluoranthene	<0.005	ppm
11/23/2020	10:45:00 AM	Benzo(g,h,i)perylene	<0.005	ppm
11/23/2020	10:45:00 AM	Benzo(k)fluoranthene	<0.005	ppm
11/23/2020	10:45:00 AM	Bis(2-Chloroethoxy)methane	<0.005	ppm
11/23/2020	10:45:00 AM	bis(2-Chloroethyl)Ether	<0.005	ppm
11/23/2020	10:45:00 AM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	BOD	24.47	mg/l
11/23/2020	10:45:00 AM	Bromodichloromethane	<0.001	ppm
11/23/2020	10:45:00 AM	Bromoform	<0.001	ppm
11/23/2020	10:45:00 AM	Bromomethane	<0.002	ppm
11/23/2020	10:45:00 AM	Butylbenzyl phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	Cadmium	0.08093	ppb
11/23/2020	10:45:00 AM	Cadmium, Dissolved	<0.020	ppb
11/23/2020	10:45:00 AM	Carbon Tetrachloride	<0.001	ppm
11/23/2020	10:45:00 AM	Chlorobenzene	<0.001	ppm
11/23/2020	10:45:00 AM	Chloroethane	0.00605	ppm
11/23/2020	10:45:00 AM	Chloroform	<0.001	ppm
11/23/2020	10:45:00 AM	Chloromethane	<0.001	ppm
11/23/2020	10:45:00 AM	Chromium	4.213	ppb
11/23/2020	10:45:00 AM	Chromium, Dissolved	2.371	ppb
11/23/2020	10:45:00 AM	Chrysene	<0.005	ppm
11/23/2020	10:45:00 AM	cis-1,3-Dichloropropene	<0.001	ppm
11/23/2020	10:45:00 AM	Copper	12.94	ppb
11/23/2020	10:45:00 AM	Copper, Dissolved	3.927	ppb
11/23/2020	10:45:00 AM	Cyanide, Total	<4.000	ppb
11/23/2020	10:45:00 AM	Dibenzo(a,h)anthracene	<0.005	ppm
11/23/2020	10:45:00 AM	Dibromochloromethane	<0.001	ppm
11/23/2020	10:45:00 AM	Diethyl phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	Dimethyl phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	Di-n-butyl phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	Di-n-octyl phthalate	<0.005	ppm
11/23/2020	10:45:00 AM	Enterococci	>24196.0	MPN/100 mL
11/23/2020	10:45:00 AM	Ethylbenzene	<0.001	ppm
11/23/2020	10:45:00 AM	Fecal Coliform	>240000.0	MPN/100 mL
11/23/2020	10:45:00 AM	Fluoranthene	<0.005	ppm
11/23/2020	10:45:00 AM	Fluorene	<0.005	ppm
11/23/2020	10:45:00 AM	Hexachlorobenzene	<0.005	ppm
11/23/2020	10:45:00 AM	Hexachlorobutadiene	<0.005	ppm
11/23/2020	10:45:00 AM	Hexachlorocyclopentadiene	<0.005	ppm
11/23/2020	10:45:00 AM	Hexachloroethane	<0.005	ppm
11/23/2020	10:45:00 AM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
11/23/2020	10:45:00 AM	Iron	716.7	ppb
11/23/2020	10:45:00 AM	Iron, Dissolved	86.01	ppb
11/23/2020	10:45:00 AM	Isophorone	<0.005	ppm
11/23/2020	10:45:00 AM	Lead	12.85	ppb
11/23/2020	10:45:00 AM	Lead, Dissolved	1.082	ppb
11/23/2020	10:45:00 AM	Mercury	9.28	ppt
11/23/2020	10:45:00 AM	Methylene Chloride	<0.001	ppm
11/23/2020	10:45:00 AM	Molybdenum	0.8114	ppb
11/23/2020	10:45:00 AM	Naphthalene	<0.005	ppm
11/23/2020	10:45:00 AM	Nickel	2.973	ppb
11/23/2020	10:45:00 AM	Nickel, Dissolved	1.232	ppb
11/23/2020	10:45:00 AM	Nitrate	0.125	ppm (as N)

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

Sample Date	Sample Time	Parameter	Result	Units
11/23/2020	10:45:00 AM	Nitrate+Nitrite	0.140	ppm (as N)
11/23/2020	10:45:00 AM	Nitrite	0.0150	ppm (as N)
11/23/2020	10:45:00 AM	Nitrobenzene	<0.005	ppm
11/23/2020	10:45:00 AM	Nitrogen, Total	4.99	ppm (as N)
11/23/2020	10:45:00 AM	Nitrogen, Total Kjeldahl	4.85	ppm (as N)
11/23/2020	10:45:00 AM	N-nitrosodi-n-propylamine	<0.005	ppm
11/23/2020	10:45:00 AM	N-nitrosodimethylamine	<0.005	ppm
11/23/2020	10:45:00 AM	N-nitrosodiphenylamine	<0.005	ppm
11/23/2020	10:45:00 AM	Oil and Grease	6.092	ppm
11/23/2020	10:45:00 AM	Pentachlorophenol	<0.005	ppm
11/23/2020	10:45:00 AM	Phenanthrene	<0.005	ppm
11/23/2020	10:45:00 AM	Phenol	<0.005	ppm
11/23/2020	10:45:00 AM	Phosphorous, Total	0.810	ppm
11/23/2020	10:45:00 AM	Pyrene	<0.005	ppm
11/23/2020	10:45:00 AM	Selenium	<1.000	ppb
11/23/2020	10:45:00 AM	Silver	23.84	ppb
11/23/2020	10:45:00 AM	Silver, Dissolved	0.03697	ppb
11/23/2020	10:45:00 AM	Tetrachloroethene	<0.001	ppm
11/23/2020	10:45:00 AM	Toluene	0.00129	ppm
11/23/2020	10:45:00 AM	trans-1,2-Dichloroethene	<0.001	ppm
11/23/2020	10:45:00 AM	trans-1,3-Dichloropropene	<0.001	ppm
11/23/2020	10:45:00 AM	Trichloroethene	<0.001	ppm
11/23/2020	10:45:00 AM	Trichlorofluoromethane	<0.001	ppm
11/23/2020	10:45:00 AM	TSS	35.000	mg/l
11/23/2020	10:45:00 AM	Vinyl Chloride	<0.001	ppm
11/23/2020	10:45:00 AM	Zinc	43.20	ppb
11/23/2020	10:45:00 AM	Zinc, Dissolved	14.83	ppb

Table 42: CSO Wet Weather Overflow North Diversion Structure NBC CSO 002A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:55:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	4:55:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	4:55:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	4:55:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	4:55:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	4:55:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	4:55:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	4:55:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	4:55:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	4:55:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	4:55:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	4:55:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	4:55:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	4:55:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	4:55:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	4:55:00 PM	Acetone	0.0358	ppm
8/4/2020	4:55:00 PM	Acrolein	<0.001	ppm
8/4/2020	4:55:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	4:55:00 PM	Aluminum	1697	ppb
8/4/2020	4:55:00 PM	Aluminum, Dissolved	56.92	ppb
8/4/2020	4:55:00 PM	Ammonia	4.51	ppm (as N)
8/4/2020	4:55:00 PM	Anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Arsenic	1.562	ppb
8/4/2020	4:55:00 PM	Benzene	<0.001	ppm
8/4/2020	4:55:00 PM	Benzidine	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	4:55:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm
8/4/2020	4:55:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	4:55:00 PM	Bis(2-ethylhexyl)phthalate	0.0068	ppm
8/4/2020	4:55:00 PM	BOD	275.89	mg/l
8/4/2020	4:55:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Bromoform	<0.001	ppm
8/4/2020	4:55:00 PM	Bromomethane	<0.002	ppm
8/4/2020	4:55:00 PM	butylbenzyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Cadmium	0.5608	ppb
8/4/2020	4:55:00 PM	Cadmium, Dissolved	0.03450	ppb

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:55:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	4:55:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	4:55:00 PM	Chloroethane	<0.001	ppm
8/4/2020	4:55:00 PM	Chloroform	<0.001	ppm
8/4/2020	4:55:00 PM	Chloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Chromium	9.215	ppb
8/4/2020	4:55:00 PM	Chromium, Dissolved	2.323	ppb
8/4/2020	4:55:00 PM	Chrysene	<0.005	ppm
8/4/2020	4:55:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:55:00 PM	Copper	91.89	ppb
8/4/2020	4:55:00 PM	Copper, Dissolved	17.61	ppb
8/4/2020	4:55:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	4:55:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	4:55:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	4:55:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	4:55:00 PM	Enterococci	>24196.0	MPN/100 mL
8/4/2020	4:55:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	4:55:00 PM	Fecal Coliform	>240000.0	MPN/100 mL
8/4/2020	4:55:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	4:55:00 PM	Fluorene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	4:55:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	4:55:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Iron	3070	ppb
8/4/2020	4:55:00 PM	Iron, Dissolved	306.7	ppb
8/4/2020	4:55:00 PM	Isophorone	<0.005	ppm
8/4/2020	4:55:00 PM	Lead	60.75	ppb
8/4/2020	4:55:00 PM	Lead, Dissolved	2.276	ppb
8/4/2020	4:55:00 PM	Mercury	19.6	ppt
8/4/2020	4:55:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	4:55:00 PM	Molybdenum	3.726	ppb
8/4/2020	4:55:00 PM	Naphthalene	<0.005	ppm
8/4/2020	4:55:00 PM	Nickel	6.834	ppb
8/4/2020	4:55:00 PM	Nickel, Dissolved	3.326	ppb
8/4/2020	4:55:00 PM	Nitrate	0.248	ppm (as N)
8/4/2020	4:55:00 PM	Nitrate+Nitrite	0.394	ppm (as N)
8/4/2020	4:55:00 PM	Nitrite	0.146	ppm (as N)
8/4/2020	4:55:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	4:55:00 PM	Nitrogen, Total	17.2	ppm (as N)
8/4/2020	4:55:00 PM	Nitrogen, Total Kjeldahl	16.8	ppm (as N)
8/4/2020	4:55:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	4:55:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	4:55:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	4:55:00 PM	Oil and Grease	16.87	ppm
8/4/2020	4:55:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	4:55:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	4:55:00 PM	Phenol	<0.005	ppm
8/4/2020	4:55:00 PM	Phosphorous, Total	2.81	ppm
8/4/2020	4:55:00 PM	Pyrene	<0.005	ppm
8/4/2020	4:55:00 PM	Selenium	<1.000	ppb
8/4/2020	4:55:00 PM	Silver	0.4318	ppb
8/4/2020	4:55:00 PM	Silver, Dissolved	<0.020	ppb
8/4/2020	4:55:00 PM	Tetrachloroethene	<0.001	ppm

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	4:55:00 PM	Toluene	0.00236	ppm
8/4/2020	4:55:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	4:55:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	4:55:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	4:55:00 PM	TSS	364.00	mg/l
8/4/2020	4:55:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	4:55:00 PM	Zinc	355.0	ppb
8/4/2020	4:55:00 PM	Zinc, Dissolved	90.17	ppb
8/4/2020	5:10:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	5:10:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	5:10:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	5:10:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	5:10:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	5:10:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	5:10:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	5:10:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	5:10:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	5:10:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	5:10:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	5:10:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	5:10:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	5:10:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	5:10:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	5:10:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	5:10:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	5:10:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	5:10:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	5:10:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	5:10:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	5:10:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	5:10:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	5:10:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	5:10:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	5:10:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	5:10:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	5:10:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	5:10:00 PM	Acetone	0.0896	ppm
8/4/2020	5:10:00 PM	Acrolein	<0.001	ppm
8/4/2020	5:10:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	5:10:00 PM	Aluminum	988.5	ppb
8/4/2020	5:10:00 PM	Aluminum, Dissolved	85.57	ppb
8/4/2020	5:10:00 PM	Ammonia	4.39	ppm (as N)
8/4/2020	5:10:00 PM	Anthracene	<0.005	ppm
8/4/2020	5:10:00 PM	Arsenic	1.217	ppb
8/4/2020	5:10:00 PM	Benzene	<0.001	ppm
8/4/2020	5:10:00 PM	Benzidine	<0.005	ppm
8/4/2020	5:10:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	5:10:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	5:10:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	5:10:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	5:10:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	5:10:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:10:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	5:10:00 PM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	BOD	194.74	mg/l
8/4/2020	5:10:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	5:10:00 PM	Bromoform	<0.001	ppm
8/4/2020	5:10:00 PM	Bromomethane	<0.002	ppm
8/4/2020	5:10:00 PM	butylbenzyl phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	Cadmium	0.3623	ppb
8/4/2020	5:10:00 PM	Cadmium, Dissolved	0.04190	ppb
8/4/2020	5:10:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	5:10:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	5:10:00 PM	Chloroethane	<0.001	ppm
8/4/2020	5:10:00 PM	Chloroform	<0.001	ppm
8/4/2020	5:10:00 PM	Chloromethane	<0.001	ppm
8/4/2020	5:10:00 PM	Chromium	4.136	ppb
8/4/2020	5:10:00 PM	Chromium, Dissolved	2.247	ppb
8/4/2020	5:10:00 PM	Chrysene	<0.005	ppm
8/4/2020	5:10:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:10:00 PM	Copper	53.01	ppb
8/4/2020	5:10:00 PM	Copper, Dissolved	14.05	ppb
8/4/2020	5:10:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	5:10:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	5:10:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	5:10:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	5:10:00 PM	Enterococci	>24196.0	MPN/100 mL
8/4/2020	5:10:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	5:10:00 PM	Fecal Coliform	>240000.0	MPN/100 mL
8/4/2020	5:10:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	5:10:00 PM	Fluorene	<0.005	ppm
8/4/2020	5:10:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	5:10:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	5:10:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	5:10:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	5:10:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	5:10:00 PM	Iron	1653	ppb
8/4/2020	5:10:00 PM	Iron, Dissolved	240.8	ppb
8/4/2020	5:10:00 PM	Isophorone	<0.005	ppm
8/4/2020	5:10:00 PM	Lead	28.09	ppb
8/4/2020	5:10:00 PM	Lead, Dissolved	2.767	ppb
8/4/2020	5:10:00 PM	Mercury	10.2	ppt
8/4/2020	5:10:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	5:10:00 PM	Molybdenum	2.844	ppb
8/4/2020	5:10:00 PM	Naphthalene	<0.005	ppm
8/4/2020	5:10:00 PM	Nickel	4.473	ppb
8/4/2020	5:10:00 PM	Nickel, Dissolved	2.751	ppb
8/4/2020	5:10:00 PM	Nitrate	0.191	ppm (as N)
8/4/2020	5:10:00 PM	Nitrate+Nitrite	0.408	ppm (as N)
8/4/2020	5:10:00 PM	Nitrite	0.217	ppm (as N)
8/4/2020	5:10:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	5:10:00 PM	Nitrogen, Total	15.6	ppm (as N)
8/4/2020	5:10:00 PM	Nitrogen, Total Kjeldahl	15.2	ppm (as N)
8/4/2020	5:10:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	5:10:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	5:10:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	5:10:00 PM	Oil and Grease	29.74	ppm

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:10:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	5:10:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	5:10:00 PM	Phenol	<0.005	ppm
8/4/2020	5:10:00 PM	Phosphorous, Total	2.37	ppm
8/4/2020	5:10:00 PM	Pyrene	<0.005	ppm
8/4/2020	5:10:00 PM	Selenium	<1.000	ppb
8/4/2020	5:10:00 PM	Silver	0.2791	ppb
8/4/2020	5:10:00 PM	Silver, Dissolved	<0.020	ppb
8/4/2020	5:10:00 PM	Tetrachloroethene	<0.001	ppm
8/4/2020	5:10:00 PM	Toluene	0.00177	ppm
8/4/2020	5:10:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	5:10:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:10:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	5:10:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	5:10:00 PM	TSS	176.00	mg/l
8/4/2020	5:10:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	5:10:00 PM	Zinc	248.0	ppb
8/4/2020	5:10:00 PM	Zinc, Dissolved	91.65	ppb
8/4/2020	5:25:00 PM	(m & p) Xylene	<0.002	ppm
8/4/2020	5:25:00 PM	(o) Xylene	<0.001	ppm
8/4/2020	5:25:00 PM	1,1,1-Trichloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	1,1,2,2-Tetrachloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	1,1,2-Trichloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	1,1-Dichloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	1,1-Dichloroethene	<0.001	ppm
8/4/2020	5:25:00 PM	1,2,4-Trichlorobenzene	<0.005	ppm
8/4/2020	5:25:00 PM	1,2-Dichlorobenzene	<0.001	ppm
8/4/2020	5:25:00 PM	1,2-Dichloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	1,2-Dichloropropane	<0.001	ppm
8/4/2020	5:25:00 PM	1,2-Diphenylhydrazine	<0.005	ppm
8/4/2020	5:25:00 PM	1,3-Dichlorobenzene	<0.001	ppm
8/4/2020	5:25:00 PM	1,4-Dichlorobenzene	<0.001	ppm
8/4/2020	5:25:00 PM	2,2'-Oxybis(1-chloropropane)	<0.005	ppm
8/4/2020	5:25:00 PM	2,4,6-Trichlorophenol	<0.005	ppm
8/4/2020	5:25:00 PM	2,4-Dichlorophenol	<0.005	ppm
8/4/2020	5:25:00 PM	2,4-Dimethylphenol	<0.005	ppm
8/4/2020	5:25:00 PM	2,4-Dinitrophenol	<0.005	ppm
8/4/2020	5:25:00 PM	2,4-Dinitrotoluene	<0.005	ppm
8/4/2020	5:25:00 PM	2,6-Dinitrotoluene	<0.005	ppm
8/4/2020	5:25:00 PM	2-Chloroethylvinylether	<0.001	ppm
8/4/2020	5:25:00 PM	2-Chloronaphthalene	<0.005	ppm
8/4/2020	5:25:00 PM	2-Chlorophenol	<0.005	ppm
8/4/2020	5:25:00 PM	2-Methyl-4,6-dinitrophenol	<0.005	ppm
8/4/2020	5:25:00 PM	2-Nitrophenol	<0.005	ppm
8/4/2020	5:25:00 PM	3,3'-Dichlorobenzidine	<0.005	ppm
8/4/2020	5:25:00 PM	4-Bromophenyl phenyl ether	<0.005	ppm
8/4/2020	5:25:00 PM	4-Chloro-3-methylphenol	<0.005	ppm
8/4/2020	5:25:00 PM	4-Chlorophenyl phenyl ether	<0.005	ppm
8/4/2020	5:25:00 PM	4-Nitrophenol	<0.005	ppm
8/4/2020	5:25:00 PM	Acenaphthene	<0.005	ppm
8/4/2020	5:25:00 PM	Acenaphthylene	<0.005	ppm
8/4/2020	5:25:00 PM	Acetone	0.0217	ppm
8/4/2020	5:25:00 PM	Acrolein	<0.001	ppm
8/4/2020	5:25:00 PM	Acrylonitrile	<0.001	ppm
8/4/2020	5:25:00 PM	Aluminum	735.0	ppb
8/4/2020	5:25:00 PM	Aluminum, Dissolved	86.16	ppb
8/4/2020	5:25:00 PM	Ammonia	4.37	ppm (as N)
8/4/2020	5:25:00 PM	Anthracene	<0.005	ppm

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:25:00 PM	Arsenic	1.084	ppb
8/4/2020	5:25:00 PM	Benzene	<0.001	ppm
8/4/2020	5:25:00 PM	Benzydine	<0.005	ppm
8/4/2020	5:25:00 PM	Benzo(a)anthracene	<0.005	ppm
8/4/2020	5:25:00 PM	Benzo(a)pyrene	<0.005	ppm
8/4/2020	5:25:00 PM	Benzo(b)fluoranthene	<0.005	ppm
8/4/2020	5:25:00 PM	Benzo(g,h,i)perylene	<0.005	ppm
8/4/2020	5:25:00 PM	Benzo(k)fluoranthene	<0.005	ppm
8/4/2020	5:25:00 PM	Bis(2-Chloroethoxy)methane	<0.005	ppm
8/4/2020	5:25:00 PM	bis(2-Chloroethyl)Ether	<0.005	ppm
8/4/2020	5:25:00 PM	Bis(2-ethylhexyl)phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	BOD	106.40	mg/l
8/4/2020	5:25:00 PM	Bromodichloromethane	<0.001	ppm
8/4/2020	5:25:00 PM	Bromoform	<0.001	ppm
8/4/2020	5:25:00 PM	Bromomethane	<0.002	ppm
8/4/2020	5:25:00 PM	butylbenzyl phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	Cadmium	0.3219	ppb
8/4/2020	5:25:00 PM	Cadmium, Dissolved	0.05013	ppb
8/4/2020	5:25:00 PM	Carbon Tetrachloride	<0.001	ppm
8/4/2020	5:25:00 PM	Chlorobenzene	<0.001	ppm
8/4/2020	5:25:00 PM	Chloroethane	<0.001	ppm
8/4/2020	5:25:00 PM	Chloroform	<0.001	ppm
8/4/2020	5:25:00 PM	Chloromethane	<0.001	ppm
8/4/2020	5:25:00 PM	Chromium	3.345	ppb
8/4/2020	5:25:00 PM	Chromium, Dissolved	2.183	ppb
8/4/2020	5:25:00 PM	Chrysene	<0.005	ppm
8/4/2020	5:25:00 PM	cis-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:25:00 PM	Copper	44.17	ppb
8/4/2020	5:25:00 PM	Copper, Dissolved	15.65	ppb
8/4/2020	5:25:00 PM	Cyanide, Total	<4.000	ppb
8/4/2020	5:25:00 PM	Dibenzo(a,h)anthracene	<0.005	ppm
8/4/2020	5:25:00 PM	Dibromochloromethane	<0.001	ppm
8/4/2020	5:25:00 PM	Diethyl phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	Dimethyl phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	Di-n-butyl phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	Di-n-octyl phthalate	<0.005	ppm
8/4/2020	5:25:00 PM	Enterococci	>24196.0	MPN/100 mL
8/4/2020	5:25:00 PM	Ethylbenzene	<0.001	ppm
8/4/2020	5:25:00 PM	Fecal Coliform	>240000.0	MPN/100 mL
8/4/2020	5:25:00 PM	Fluoranthene	<0.005	ppm
8/4/2020	5:25:00 PM	Fluorene	<0.005	ppm
8/4/2020	5:25:00 PM	Hexachlorobenzene	<0.005	ppm
8/4/2020	5:25:00 PM	Hexachlorobutadiene	<0.005	ppm
8/4/2020	5:25:00 PM	Hexachlorocyclopentadiene	<0.005	ppm
8/4/2020	5:25:00 PM	Hexachloroethane	<0.005	ppm
8/4/2020	5:25:00 PM	Indeno(1,2,3-cd)pyrene	<0.005	ppm
8/4/2020	5:25:00 PM	Iron	1186	ppb
8/4/2020	5:25:00 PM	Iron, Dissolved	238.1	ppb
8/4/2020	5:25:00 PM	Isophorone	<0.005	ppm
8/4/2020	5:25:00 PM	Lead	19.34	ppb
8/4/2020	5:25:00 PM	Lead, Dissolved	2.874	ppb
8/4/2020	5:25:00 PM	Mercury	19.8	ppt
8/4/2020	5:25:00 PM	Methylene Chloride	<0.001	ppm
8/4/2020	5:25:00 PM	Molybdenum	2.823	ppb
8/4/2020	5:25:00 PM	Naphthalene	<0.005	ppm
8/4/2020	5:25:00 PM	Nickel	3.952	ppb
8/4/2020	5:25:00 PM	Nickel, Dissolved	2.849	ppb
8/4/2020	5:25:00 PM	Nitrate	0.203	ppm (as N)

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Sample Date	Sample Time	Parameter	Result	Units
8/4/2020	5:25:00 PM	Nitrate+Nitrite	0.432	ppm (as N)
8/4/2020	5:25:00 PM	Nitrite	0.229	ppm (as N)
8/4/2020	5:25:00 PM	Nitrobenzene	<0.005	ppm
8/4/2020	5:25:00 PM	Nitrogen, Total	14.3	ppm (as N)
8/4/2020	5:25:00 PM	Nitrogen, Total Kjeldahl	13.9	ppm (as N)
8/4/2020	5:25:00 PM	N-nitrosodi-n-propylamine	<0.005	ppm
8/4/2020	5:25:00 PM	N-nitrosodimethylamine	<0.005	ppm
8/4/2020	5:25:00 PM	N-nitrosodiphenylamine	<0.005	ppm
8/4/2020	5:25:00 PM	Oil and Grease	26.21	ppm
8/4/2020	5:25:00 PM	Pentachlorophenol	<0.005	ppm
8/4/2020	5:25:00 PM	Phenanthrene	<0.005	ppm
8/4/2020	5:25:00 PM	Phenol	<0.005	ppm
8/4/2020	5:25:00 PM	Phosphorous, Total	2.09	ppm
8/4/2020	5:25:00 PM	Pyrene	<0.005	ppm
8/4/2020	5:25:00 PM	Selenium	<1.000	ppb
8/4/2020	5:25:00 PM	Silver	0.1698	ppb
8/4/2020	5:25:00 PM	Silver, Dissolved	0.02143	ppb
8/4/2020	5:25:00 PM	Tetrachloroethene	<0.001	ppm
8/4/2020	5:25:00 PM	Toluene	0.00189	ppm
8/4/2020	5:25:00 PM	trans-1,2-Dichloroethene	<0.001	ppm
8/4/2020	5:25:00 PM	trans-1,3-Dichloropropene	<0.001	ppm
8/4/2020	5:25:00 PM	Trichloroethene	<0.001	ppm
8/4/2020	5:25:00 PM	Trichlorofluoromethane	<0.001	ppm
8/4/2020	5:25:00 PM	TSS	139.00	mg/l
8/4/2020	5:25:00 PM	Vinyl Chloride	<0.001	ppm
8/4/2020	5:25:00 PM	Zinc	222.9	ppb
8/4/2020	5:25:00 PM	Zinc, Dissolved	97.69	ppb

Table 43: CSO Wet Weather Overflow Esten Avenue near Moshassuck Street NBC CSO 220A

Bay Secchi Depth Water Column Transparency Data 2020

Date*	Site	Time	Meters or Feet	1st Reading			2nd Reading			3rd Reading			Comments
				Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	
1/2/20	Conimicut Point	1:00 PM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.0	2.8	2.9	
1/2/20	Bullock Reach	1:25 PM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.6	3.4	3.5	
1/2/20	Pawtuxet Cove	1:35 PM	M	3.6	3.4	3.5	3.8	3.6	3.7	2.6	2.4	2.5	
1/2/20	Pomham Rocks	1:55 PM	M	2.6	2.4	2.5	2.4	2.2	2.3	3.2	3.0	3.1	
1/2/20	Edgewood Yacht Club	2:15 PM	M	3.2	3.0	3.1	3.4	3.2	3.3	3.6	3.4	3.5	
1/2/20	Edgewood Shoal	2:25 PM	M	3.6	3.4	3.5	3.8	3.6	3.7				No 3 rd reading at Edgewood Shoal
1/15/20	Conimicut Point	9:20 AM	M										Too Choppy/Windy
1/15/20	Bullock Reach	9:40 AM	M										Too Choppy/Windy
1/15/20	Pomham Rocks	10:25 AM	M										Too Choppy/Windy
1/15/20	India Point Park	12:55 PM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.2	3.0	3.1	
1/15/20	Edgewood Yacht Club	1:20 PM	M										Too Choppy/Windy
1/15/20	Pawtuxet Cove	1:45 PM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	
2/5/20	Bullock Reach	8:07 AM	M	4.4	4.2	4.3	4.4	4.2	4.3	4.4	4.2	4.3	
2/5/20	Conimicut Point	8:35 AM	M	4.2	4.0	4.1	4.0	3.8	3.9	4.2	4.0	4.1	
2/5/20	Pomham Rocks	9:00 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	
2/5/20	Point St. Bridge	9:15 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.4	3.2	3.3	
2/5/20	Phillipsdale Landing	9:45 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
2/5/20	Edgewood Yacht Club	10:20 AM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.4	3.2	3.3	
2/12/20	Conimicut Point	9:15 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.6	3.4	3.5	
2/12/20	Bullock Reach	9:40 AM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.4	3.2	3.3	
2/12/20	Edgewood Yacht Club	10:35 AM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
2/12/20	Pawtuxet Cove	1:25 PM	M	2.4	2.2	2.3	2.8	2.6	2.7	2.8	2.6	2.7	
2/12/20	Pomham Rocks	1:50 PM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
2/12/20	India Point Park	2:30 PM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
3/4/20	Edgewood Yacht Club	8:25 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
3/4/20	Bullock Reach	8:40 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
3/4/20	Conimicut Point	8:45 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	
3/4/20	Pomham Rocks	9:15 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/4/20	Point St. Bridge	9:35 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/4/20	India Point Park	9:40 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	
3/4/20	Phillipsdale Landing	10:05 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
3/11/20	Conimicut Point	9:10 AM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.2	3.0	3.1	
3/11/20	Bullock Reach	9:26 AM	M	3.2	3.0	3.1	3.6	3.4	3.5	3.6	3.4	3.5	
3/11/20	Pomham Rocks	10:10 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
3/11/20	India Point Park	12:55 PM	M										Strong Current
3/11/20	Pawtuxet Cove	1:45 PM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
3/11/20	Edgewood Yacht Club	2:10 PM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.2	2.0	2.1	
5/28/20	Edgewood Yacht Club	8:15 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.2	2.0	2.1	
5/28/20	Bullock Reach	9:10 AM	M	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2.2	
5/28/20	Conimicut Point	9:20 AM	M										Too Choppy
5/28/20	Pomham Rocks	9:45 AM	M										Too Choppy/Current
5/28/20	Point St. Bridge	10:00 AM	M										Too Much Current
5/28/20	India Point Park	10:10 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.2	1.4	

*Sampling was not conducted in April due to COVID-19 impacts.

Table 44: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2020

Date*	Site	Time	Meters or Feet	1st Reading			2nd Reading			3rd Reading			Comments
				Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	
5/28/20	Phillipsdale Landing	10:30 AM	M	1.4	1.6	1.5	1.8	1.4	1.6	1.8	1.4	1.6	
6/10/20	Edgewood Yacht Club	7:15 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	
6/10/20	Bullock Reach	8:00 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.4	2.2	2.3	
6/10/20	Conimicut Point	8:06 AM	M	2.4	2.2	2.3	2.2	2.0	2.1	2.2	2.0	2.1	
6/10/20	Pomham Rocks	8:30 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/10/20	Point St. Bridge	8:45 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/10/20	India Point Park	8:50 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.2	2.0	2.1	
6/10/20	Phillipsdale Landing	9:12 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	
6/17/20	Conimicut Point	8:45 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/17/20	Bullock Reach	9:10 AM	M	1.4	1.1	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
6/17/20	Pomham Rocks	9:50 AM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	
6/17/20	Edgewood Yacht Club	10:10 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
6/17/20	India Point Park	12:50 PM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	
6/17/20	Phillipsdale Landing	1:25 PM	M	1.0	0.8	0.9	1.0	0.8	0.9	1.0	0.8	0.9	
6/17/20	Edgewood Shoal	2:20 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.6	1.4	1.5	
6/24/20	Edgewood Yacht Club	7:45 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
6/24/20	Bullock Reach	8:00 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
6/24/20	Conimicut Point	8:01 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	1.8	1.6	1.7	
6/24/20	Pomham Rocks	8:34 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.6	1.4	1.5	
6/24/20	Point St. Bridge	8:50 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
6/24/20	India Point Park	8:55 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.6	1.4	1.5	Current
6/24/20	Phillipsdale Landing	9:18 AM	M	1.6	1.4	1.5	1.8	1.4	1.6	1.6	1.4	1.5	
7/8/20	Edgewood Yacht Club	7:55 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
7/8/20	Bullock Reach	8:38 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
7/8/20	Conimicut Point	8:50 AM	M	2.0	1.8	1.9	1.9	1.6	1.8	2.0	1.8	1.9	
7/8/20	Pomham Rocks	9:15 AM	M										Too Choppy/Current
7/8/20	Point St. Bridge	9:35 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
7/8/20	India Point Park	9:43 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
7/8/20	Phillipsdale Landing	10:03 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.8	1.6	1.7	
7/15/20	Conimicut Point	7:50 AM	M	1.2	1.0	1.1	1.6	1.2	1.4	1.2	1.0	1.1	
7/15/20	Bullock Reach	8:10 AM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
7/15/20	Pawtuxet Cove	8:40 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	1.8	1.6	1.7	
7/15/20	Pomham Rocks	8:55 AM	M	1.8	1.6	1.7	2.0	1.8	1.9	1.8	1.6	1.7	
7/15/20	India Point Park	9:20 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.0	1.8	1.9	
7/15/20	Phillipsdale Landing	9:55 AM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
7/15/20	Edgewood Yacht Club	10:50 AM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.0	1.8	1.9	
7/22/20	Bullock Reach	8:30 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.6	1.4	1.5	
7/22/20	Conimicut Point	8:40 AM	M	1.6	1.4	1.5	1.8	1.6	1.7	2.0	1.8	1.9	
7/22/20	Point St. Bridge	9:25 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
7/22/20	Phillipsdale Landing	9:50 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.0	1.8	1.9	
7/22/20	Pomham Rocks	1:40 PM	M	2.0	1.8	1.9	1.8	1.6	1.7	2.0	1.8	1.9	
7/22/20	Edgewood Yacht Club	1:45 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
8/5/20	Edgewood Yacht Club	8:15 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	

*Sampling was not conducted in April due to COVID-19 impacts.

Table 44: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2020

Date*	Site	Time	Meters or Feet	1st Reading			2nd Reading			3rd Reading			Comments
				Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	
8/5/20	Bullock Reach	9:05 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
8/5/20	Conimicut Point	9:15 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
8/5/20	Pomham Rocks	9:40 AM	M	1.4	1.2	1.3	1.6	1.4	1.5	1.6	1.4	1.5	
8/5/20	Point St. Bridge	10:00 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/5/20	India Point Park	10:10 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
8/5/20	Phillipsdale Landing	10:30 AM	M	0.8	0.6	0.7	0.8	0.6	0.7	0.8	0.6	0.7	Murky
8/13/20	Conimicut Point	8:15 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	0.6	1.2	
8/13/20	Bullock Reach	8:40 AM	M	1.0	0.8	0.9	0.6	0.4	0.5	1.0	0.8	0.9	
8/13/20	Pomham Rocks	9:00 AM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
8/13/20	Phillipsdale Landing	9:50 AM	M	0.6	0.4	0.5	0.4	0.2	0.3	0.6	0.4	0.5	
8/13/20	India Point Park	10:30 AM	M	1.2	1.4	1.3	1.4	1.2	1.3	1.2	1.0	1.1	
8/13/20	Pawtuxet Cove	1:10 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
8/13/20	Edgewood Yacht Club	1:25 PM	M	0.4	0.4	0.4	0.4	0.2	0.3	0.2	0.2	0.2	
8/13/20	Edgewood Shoal	1:40 PM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
8/19/20	Edgewood Yacht Club	8:25 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	Calm conditions
8/19/20	Bullock Reach	8:45 AM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	Calm conditions
8/19/20	Conimicut Point	9:03 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	Calm conditions
8/19/20	Pomham Rocks	9:28 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.2	2.0	2.1	Calm conditions
8/19/20	Point St. Bridge	9:47 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	Calm conditions
8/19/20	Phillipsdale Landing	10:15 AM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	Calm conditions
8/19/20	India Point Park	1:10 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	Calm conditions
8/19/20	Pawtuxet Cove	1:24 PM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	Calm conditions
9/2/20	Edgewood Yacht Club	8:25 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	Choppy Conditions
9/2/20	Bullock Reach	8:47 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.0	1.8	1.9	Choppy Conditions
9/2/20	Conimicut Point	9:04 AM	M	1.6	1.4	1.5	1.6	1.4	1.5	1.6	1.4	1.5	Choppy Conditions
9/2/20	Pomham Rocks	9:30 AM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.2	1.0	1.1	Choppy Conditions
9/2/20	Point St. Bridge	9:50 AM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	Choppy Conditions
9/2/20	India Point Park	10:05 AM	M	1.2	1.0	1.1	1.4	1.2	1.3	1.2	1.0	1.1	Choppy Conditions
9/2/20	Phillipsdale Landing	10:30 AM	M	1.0	0.6	0.8	1.2	1.0	1.1	1.0	0.6	0.8	Choppy Conditions
9/10/20	Conimicut Point	8:10 AM	M	1.8	1.6	1.7	2.0	1.8	1.9	1.8	1.6	1.7	
9/10/20	Bullock Reach	8:30 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.6	1.4	1.5	
9/10/20	Pomham Rocks	9:10 AM	M	1.4	1.2	1.3	1.0	0.8	0.9	1.2	1.0	1.1	
9/10/20	India Point Park	9:35 AM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
9/10/20	Edgewood Shoal	10:10 AM	M	1.5	1.4	1.5	1.8	1.6	1.7	1.6	1.4	1.5	
9/16/20	Bullock Reach	8:20 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
9/16/20	Conimicut Point	8:30 AM	M	2.2	2.0	2.1	2.4	2.2	2.3	2.2	2.0	2.1	
9/16/20	Pomham Rocks	9:00 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/16/20	Point St. Bridge	9:30 AM	M	2.2	2.0	2.1	2.0	1.8	1.9	2.0	1.8	1.9	
9/16/20	India Point Park	9:40 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
9/16/20	Phillipsdale Landing	9:55 AM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
9/16/20	Edgewood Yacht Club	1:00 PM	M	1.4	1.2	1.3	1.4	1.2	1.3	1.4	1.2	1.3	
9/16/20	Pawtuxet Cove	1:15 PM	M	1.4	1.2	1.3	1.6	1.4	1.5	1.4	1.2	1.3	
9/23/20	Bullock Reach	8:20 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.3	

*Sampling was not conducted in April due to COVID-19 impacts.

Table 44: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2020

Date*	Site	Time	Meters or Feet	1st Reading			2nd Reading			3rd Reading			Comments
				Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	
9/23/20	Conimicut Point	9:35 AM	M	2.4	2.2	2.3	2.4	2.2	2.3	2.2	2.0	2.1	
9/23/20	Pomham Rocks	10:00 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
9/23/20	Edgewood Shoal	10:15 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.2	2.0	2.1	
9/23/20	Edgewood Yacht Club	10:35 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
9/23/20	Phillipsdale Landing	1:10 PM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	
9/23/20	India Point Park	1:35 PM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.0	1.8	1.9	
9/23/20	Pawtuxet Cove	1:55 PM	M	1.8	1.6	1.7	1.8	1.6	1.7	1.8	1.6	1.7	
10/1/20	Bullock Reach	8:12 AM	M	3.0	2.8	2.9	2.8	2.6	2.7	3.0	2.8	2.9	
10/1/20	Conimicut Point	8:30 AM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.4	3.2	3.3	
10/1/20	Pomham Rocks	8:55 AM	M	2.4	2.2	2.3	2.6	2.4	2.5	2.4	2.2	2.3	
10/1/20	Point St. Bridge	9:15 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
10/1/20	India Point Park	9:25 AM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
10/1/20	Phillipsdale Landing	9:45 AM	M	0.8	0.6	0.7	0.6	0.4	0.5	0.8	0.6	0.7	
10/1/20	Pawtuxet Cove	1:30 PM	M	1.6	1.4	1.5	1.4	1.2	1.3	1.6	1.4	1.5	
10/1/20	Edgewood Yacht Club	1:40 PM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
10/7/20	Conimicut Point	8:40 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.4	2.2	2.3	
10/7/20	Bullock Reach	9:00 AM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.0	2.8	2.9	
10/7/20	Pomham Rocks	9:35 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
10/7/20	India Point Park	10:05 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
10/7/20	Edgewood Yacht Club	10:20 AM	M	2.8	2.6	2.7	2.6	2.4	2.5	2.8	2.6	2.7	
10/7/20	Pawtuxet Cove	10:40 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
10/15/20	Edgewood Yacht Club	8:00 AM	M	2.0	1.8	1.9	2.2	2.0	2.1	2.0	1.8	1.9	
10/15/20	Bullock Reach	8:20 AM	M	3.4	3.2	3.3	3.6	3.4	3.5	3.6	3.4	3.5	
10/15/20	Conimicut Point	8:32 AM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	
10/15/20	Pomham Rocks	9:00 AM	M	2.0	1.8	1.9	2.0	1.8	1.9	2.0	1.8	1.9	
10/15/20	Point St. Bridge	9:23 AM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
10/15/20	India Point Park	9:34 AM	M	2.2	2.0	2.1	2.2	2.0	2.1	2.0	2.0	2.0	
10/15/20	Phillipsdale Landing	9:55 AM	M	1.2	1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.1	
10/15/20	Pawtuxet Cove	10:34 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
10/21/20	Conimicut Point	8:55 AM	M	4.2	4.0	4.1	4.2	4.0	4.1	4.2	4.0	4.1	
10/21/20	Bullock Reach	9:20 AM	M	4.0	3.8	3.9	4.0	3.8	3.9	4.0	3.8	3.9	
10/21/20	Pomham Rocks	10:05 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	
10/21/20	Edgewood Yacht Club	10:20 AM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.8	3.6	3.7	
10/21/20	Phillipsdale Landing	12:55 PM	M	3.2	3.0	3.1	2.8	2.6	2.7	3.0	2.8	2.9	
10/21/20	India Point Park	1:30 PM	M	3.6	3.4	3.5	3.6	3.4	3.5	3.6	3.4	3.5	
10/21/20	Edgewood Shoal	1:45 PM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
10/21/20	Pawtuxet Cove	2:15 PM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	
10/28/20	Bullock Reach	8:10 AM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.6	3.4	3.5	
10/28/20	Conimicut Point	8:20 AM	M	3.8	3.6	3.7	3.6	3.4	3.5	3.8	3.6	3.7	
10/28/20	Point St. Bridge	9:05 AM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.2	3.0	3.1	
10/28/20	India Point Park	9:20 AM	M	2.6	2.4	2.5	2.8	2.6	2.7	2.6	2.4	2.5	
10/28/20	Phillipsdale Landing	9:40 AM	M	2.6	2.4	2.5	2.4	2.2	2.3	2.6	2.4	2.5	
10/28/20	Pomham Rocks	10:10 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.4	3.2	3.3	

*Sampling was not conducted in April due to COVID-19 impacts.

Table 44: Bay Secchi Depth Water Column Transparency Data

Bay Secchi Depth Water Column Transparency Data 2020

Date*	Site	Time	Meters or Feet	1st Reading			2nd Reading			3rd Reading			Comments
				Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	Depth-disk no longer visible	Depth-just visible	Average	
10/28/20	Edgewood Yacht Club	12:35 PM	M	3.4	3.2	3.3	3.2	3.0	3.1	3.4	3.2	3.3	
10/28/20	Pawtuxet Cove	12:40 PM	M	3.2	3.0	3.1	3.0	2.8	2.9	3.2	3.0	3.1	
11/4/20	India Point Park	9:15 AM	M	3.4	3.2	3.3	3.6	3.4	3.5	3.4	3.2	3.3	
11/4/20	Pomham Rocks	9:35 AM	M	3.6	3.4	3.5	3.4	3.2	3.3	3.6	3.4	3.5	
11/4/20	Conimicut Point	10:00 AM	M	6.0	5.8	5.9	5.8	5.4	5.6	6.0	5.8	5.9	
11/4/20	Bullock Reach	10:20 AM	M	5.8	5.4	5.6	5.4	5.2	5.3	5.6	5.4	5.5	
11/4/20	Pawtuxet Cove	1:10 PM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
11/4/20	Edgewood Yacht Club	2:20 PM	M	2.8	2.6	2.7	2.8	2.6	2.7	2.8	2.6	2.7	
11/18/20	Pawtuxet Cove	9:20 AM	M	2.6	2.4	2.5	2.2	2.0	2.1	2.6	2.4	2.5	
11/18/20	Edgewood Yacht Club	10:00 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.2	3.0	3.1	
11/18/20	Edgewood Shoal	10:02 AM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.2	3.0	3.1	
11/25/20	Conimicut Point	8:22 AM	M	3.2	3.0	3.1	3.2	3.0	3.1	3.2	3.0	3.1	
11/25/20	Pomham Rocks	8:45 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.0	2.8	2.9	
11/25/20	Point St. Bridge	9:08 AM	M	3.0	2.8	2.9	3.0	2.8	2.9	3.0	2.8	2.9	
11/25/20	India Point Park	9:16 AM	M	2.6	2.4	2.5	2.6	2.4	2.5	2.6	2.4	2.5	
11/25/20	Edgewood Yacht Club	9:37 AM	M	3.8	3.6	3.7	3.8	3.6	3.7	3.8	3.6	3.7	
11/25/20	Phillipsdale Landing	4:35 PM	M	2.8	2.6	2.7	2.8	2.8	2.8	2.8	2.6	2.7	
11/25/20	Bullock Reach	12:00 AM	M	3.4	3.2	3.3	3.4	3.2	3.3	3.4	3.2	3.3	
12/2/20	Pomham Rocks	9:00 AM	M	1.2	1.0	1.1	1.0	0.8	0.9	1.2	1.0	1.1	
12/2/20	Conimicut Point	9:25 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.8	1.6	1.7	
12/2/20	Bullock Reach	9:40 AM	M	1.8	1.6	1.7	1.6	1.4	1.5	1.6	1.4	1.5	
12/2/20	India Point Park	12:50 PM	M	1.0	0.8	0.9	0.8	0.6	0.7	1.0	0.8	0.9	
12/2/20	Pawtuxet Cove	1:10 PM	M	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.3	
12/2/20	Edgewood Yacht Club	1:35 PM	M	1.0	0.8	0.9	1.2	1.0	1.1	1.4	1.2	1.3	

*Sampling was not conducted in April due to COVID-19 impacts.

Table 44: Bay Secchi Depth Water Column Transparency Data