

Prepared for:

City of Takoma Park Department of Public Works

Illicit Discharge Tracking Memo



April 2020

Prepared by:



"Integrating Engineering and Environment"

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1. INTRODUCTION

1.1. Project Description

The City of Takoma Park (City) has coverage under the Maryland Department of the Environment (MDE) National Pollutant Discharge Elimination System (NPDES) General Permit for small municipal separate storm sewer system (MS4). The conditions of the permit require the City to develop, implement and enforce a program to detect and eliminate illicit discharges. The City has contracted BayLand Consultants & Designers, Inc. (BayLand) to provide illicit discharge tracking at three outfalls in the City of Takoma Park.

Illicit discharge detection and elimination (IDDE) is a comprehensive task to determine what pollutants are making its way into the waterway, where the pollutants are coming from, and creating and implementing a way to eliminate and control current and future contamination. Stormwater drainage systems have no filtration, therefore any pollutants that make their way into the system are not filtered and drain directly into the nearby waterways (IDDE). There are many ways to detect illicit discharge, the most practical method for the City of Takoma Park was to collect samples from each manhole displaying water flow leading to three outfalls with high levels of pollutants that were detected during outfall screening conducted in 2019.

The purpose of this project was to provide the City with quantitative data on non-stormwater discharges into Sligo Creek from three outfalls which eventually drains to the Northwest Branch of the Anacostia River. Dry weather flows in stormwater drainage systems has been found to contribute significant pollutant loadings (IDDE). The main sources are ones that typically come from sanitary wastewater, industrial and commercial pollutants, failing septic tanks and vehicle maintenance activities (IDDE). BayLand performed dry weather screening for 78 outfalls within the City for illicit discharge and analyzed the surface water samples collected. From that screening three outfalls were selected by the City, Outfall #80, Outfall #212 and Outfall #1106. Illicit discharge tracking took place after 72 hours of antecedent dry weather.

Water samples will be collected at the outfall and every preceding manhole that shows water flow after 72 hours of dry weather. Water sample collection was conducted on March 18th. The collected water samples were then sent to Australian Laboratory Services (ALS) Environmental for analysis. Chlorine, E. coli and enterococci were analyzed for Outfall #80. E. coli and enterococci were analyzed for Outfall #212. Enterococci, color, chloride and chlorine were analyzed for Outfall #1106. These parameters exceeded EPA standards at each of the associated outfalls (Table 1 – Conductivity through Total Phosphorus).

1.2. Study Area Description

Sligo Creek is a perennial tributary of the Northwest Branch of the Anacostia River. The Creek is one of the most urbanized in the Anacostia Watershed (Montgomery County

Government, 2019). The Sligo Creek Watershed (USGS 01650800) is approximately 6.45 square miles and contains four major tributaries: Wheaton Branch, Comstock Branch, Takoma Park Branch and Long Branch (USGS, 2019).

The drainage area is a mix of high density commercial and urban residential land uses. The neighborhoods were developed rapidly in the 1950s and 1960s, before modern environmental standards were put into place, which has led to degraded water quality in receiving streams. Montgomery County has begun installing several stormwater management (SWM) and stream restoration projects in the watershed to help improve water quality (George, 2012). Over the last few years, the City has installed SWM facilities and has several bioretention facilities, a modular wetland and a stream restoration project targeted for completion in 2019 (Takoma Park, 2019).

Outfall #80 is located in the woods bordering Poplar Avenue and Fourth Avenue. This area is surrounded by residential properties. Outfall #80 flows into a small tributary that eventually leads into Sligo Creek. The structure is a ten-foot wide by four-foot tall concrete box culvert. The flow type was substantial. Outfall #212 is in the wooded area between Poplar Ave, Spring Ave, and Cockerille Ave. This two-foot square box culvert has a moderate flow which drains into a small tributary that flows into Sligo Creek. Outfall #1106 is located at the intersection of New Hampshire Road and Sligo Creek Parkway. New Hampshire road is a major four lane road. This outfall flows directly into Sligo Creek. Outfall #1106 is a concrete two-foot diameter pipe with substantial orange colored flow.

1.3. Stormwater Regulatory Requirements

The U.S. Environmental Protection Agency's (EPA) stormwater regulations define "illicit discharge" as "any discharge to municipal separate storm sewer that is not composed entirely of stormwater" (except for discharges from firefighting activities and a few other categories). Municipalities operating under a Phase II MS4 permit must develop and implement a plan to detect and address non-stormwater discharges. Sources of illicit discharges include, but are not limited to, sanitary wastewater, effluent from septic tanks, car wash wastewaters, improper oil disposal, radiator flushing disposal, laundry wastewater, spills from roadway accidents, and improper disposal of auto and household toxics. EPA guidance recommends that the plan to detect and address illicit discharges include the following four components:

- 1. Sample the main outfalls Procedures for collecting priority areas that have illicit discharges.
- 2. Find the Source Procedures for tracing the source on an illicit discharge.
- 3. Remove/Correct Illicit Connections Procedures for removing the source of the discharge.
- 4. Document Actions Taken Procedures for program evaluation and assessment.

The EPA recommends visually screening outfalls during dry weather and conducting field tests of selected pollutants as part of the procedures for identifying priority areas.

1.3.1. Federal & State Water Quality Criteria Tables

Water quality criteria can be applied to both the local and national levels. The purpose of assigning water quality criteria a numeric value is for the protection of aquatic life and human health. The freshwater values for water criteria defined by the Code of Maryland Regulations (COMAR) can be found in Table 1.

The EPA sets the standards for the national recommended water quality criteria (Table 2). This table is the most up-to-date criteria for aquatic life ambient water quality criteria. Maryland uses these values as a guide and therefore both sets of criteria are listed and used as a part of this study.

For the purpose of applying Escherichia coli (E. coli) and Enterococci criteria levels, the more stringent Recreational Water Quality Criteria (RWQC) for primary contact were used due to Sligo Creek's easy water access and proximity to multiple parks and bike paths. The EPA defines primary contact as "activities where immersion and ingestion are likely and there is a high degree of bodily contact with the water, such as swimming, bathing, surfing, water skiing, tubing, skin diving, water play by children, or similar water-contact activities."

Table 1 – Maryland Water Criteria Specific to Designated Uses				
Parameter	Criteria			
E. coli (MPN/100ml)	235 ¹			
Enterococci (MPN/100ml)	61 ²			
Chloride	No existing criteria			
Chlorine (mg/L)	< 0.10 mg/L			
Color	Maximum of 75 units as a monthly average			

1 and 2: Bacteria Indicator Criteria for Recreational Full Body Contact. Source: COMAR 26.08.02.033 http://www.dsd.state.md.us/comar/SubtitleSearch.aspx?search=26.08.02.

Table 2 – U.S. EPA Recreational Water Quality Criteria				
Parameter	Criteria			
E. coli (MPN/100ml)	126 ²			
Enterococci (MPN/100ml)	35 ²			
Chloride	Chronic 230, Acute 860			
Chlorine (mg/L)	Chronic 0.011, Acute 0.019			
Color	75			

^{1: 2013} Aquatic Life Ambient Water Quality Criteria for Ammonia Freshwater (EPA)

Source: EPA Current Water Quality Criteria http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

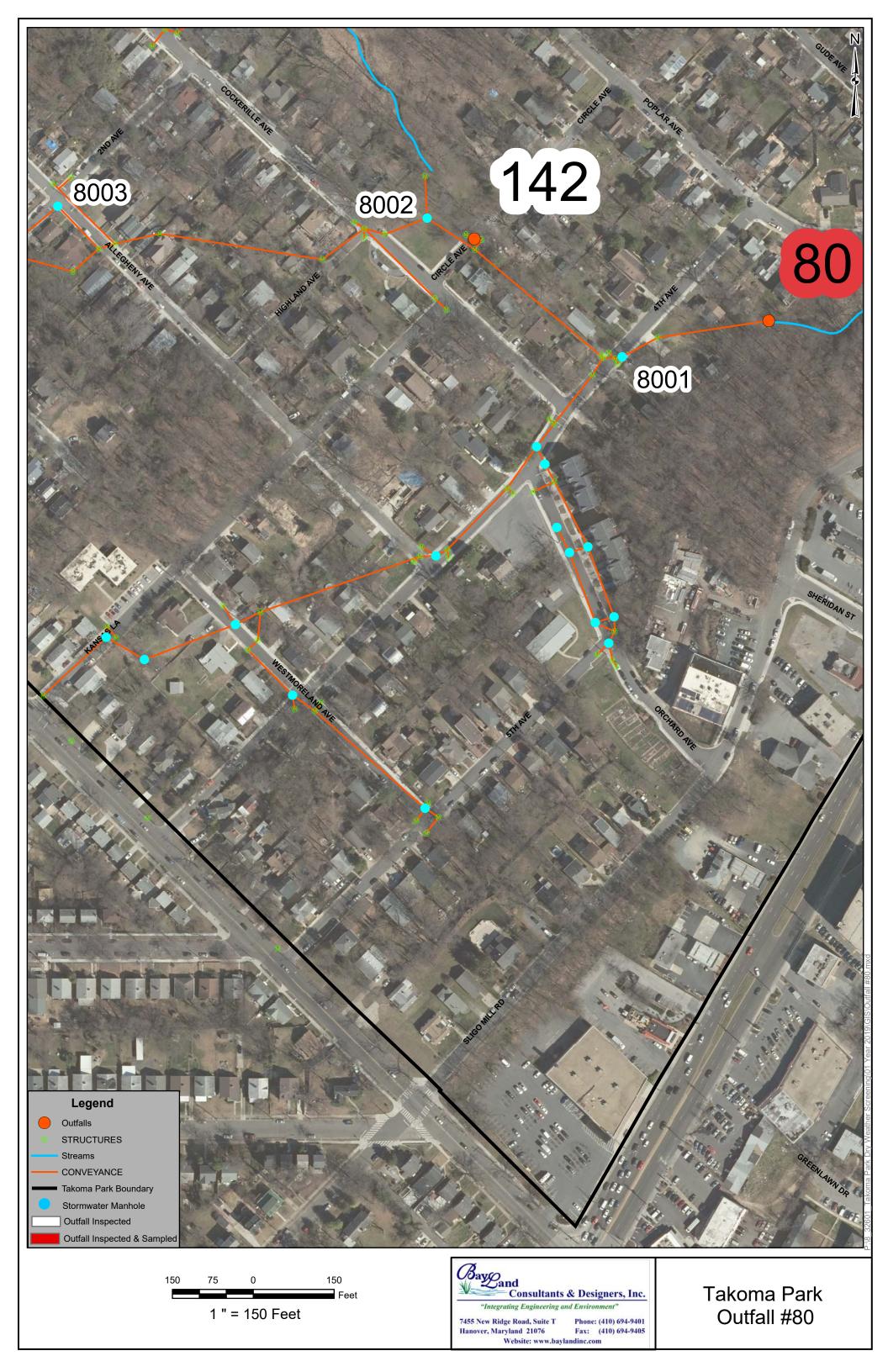
^{2: 2012} Recreational Water Quality Criteria (EPA)

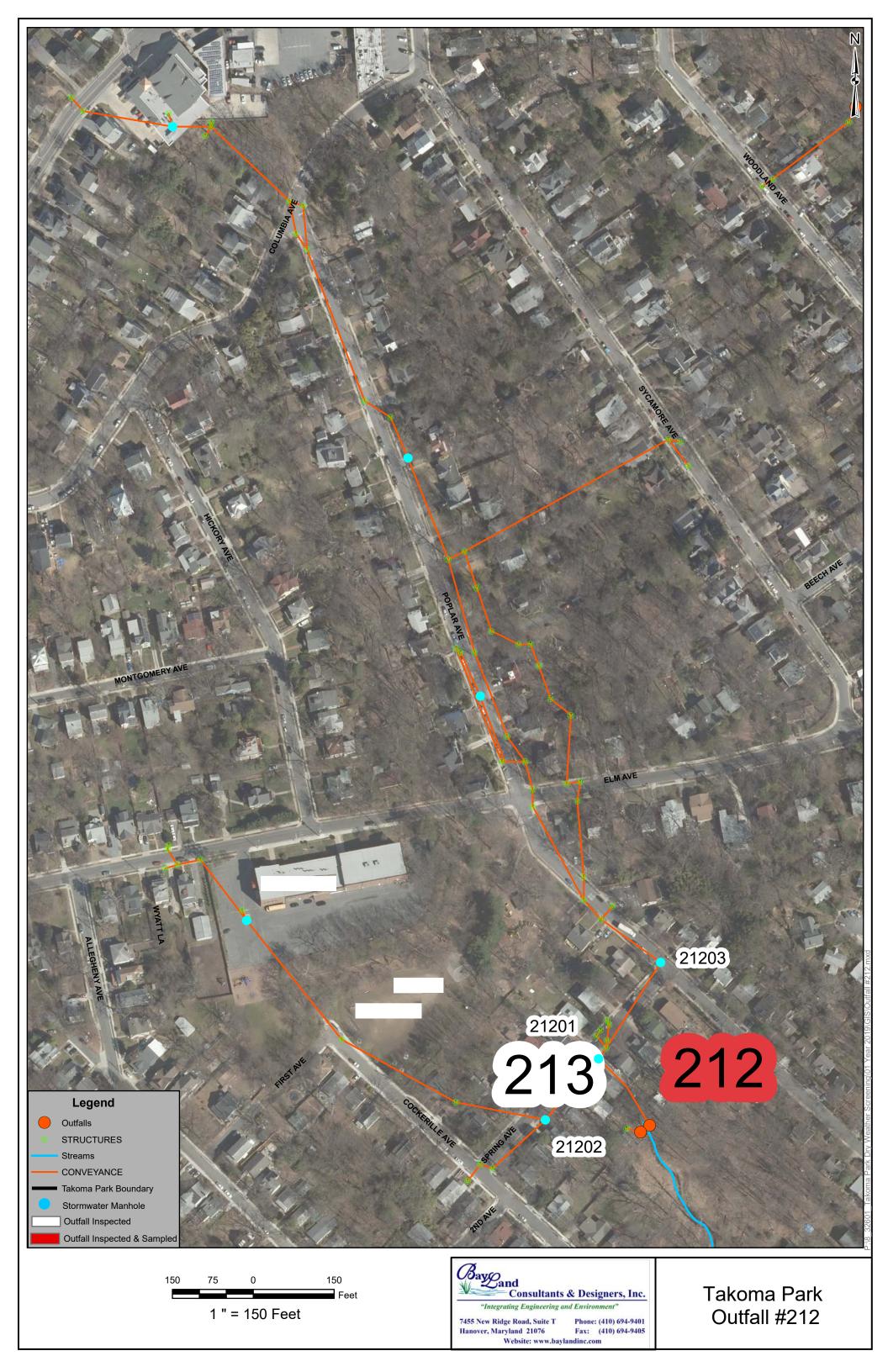
Table 3	- Parameters Measured & Significance
Parameter	Significance
Escherichia coli (E. coli)	A species of fecal coliform bacteria that is specific to fecal material from humans and other warm-blooded animals. The EPA recommends E. coli as the best indicator of health risk from water contact in recreational waters. Elevated levels may be an indicator of wastewater migration into a storm drain system. Threshold limits are based on water use and contact.
Enterococci	A subgroup of fecal streptococcus bacteria that are human- specific and used as a best indicator of health risk in saltwater because of their ability to survive, and as a useful indicator in freshwater too. Elevated levels may be an indicator of wastewater migration into a storm drain system. Threshold limits are based on water use and contact.
Chloride	Chloride ions are naturally occurring and may be present in groundwater baseflow. Large concentrations increase the corrosiveness of water and present acute and chronic toxicity to aquatic organisms. Sources of anthropogenic chlorides include road salt, sewage contamination, and water softener discharges.
Chlorine (Total)	Chlorine is a chemical commonly used as a biocide in drinking water and wastewater treatment, as well as numerous other industrial applications. Excess levels of chlorine can have acute and chronic toxicity on aquatic organisms. It can be used as an indicator of wastewater, and potable water migration into a storm drain system, and/or illicit industrial discharges.
Color	A measure that indicates the amount of photosynthetically active light available to primary producers at lower depths. Color can be used as an indicator of sewage, grey water, and industrial discharges.

2. DISTRIBUTION MAP OF INSPECTED & SAMPLED OUTFALLS

Visual inspections of three outfalls were conducted throughout the Sligo Creek watershed within the City of Takoma Park following 72 hours of dry weather (Figure 1). BayLand collected surface water samples at the three outfalls and the preceding manholes where active flow was observed.

The spatial distribution of the three outfalls where dry weather flow was observed. BayLand conducted more advanced methods of tracking illicit discharges to determine the upstream sources.







3. METHODS

Storm drain or "trunk" investigations narrow the problem discharge to a single segment of storm sewer (EPA, 2004). The investigation starts with sampling the outfall. From there, the field crew conducts sampling upstream in the pipe network. Once the crew begins to move up the pipeline the manholes will be visually inspected for flowing water. If there is flowing water the manhole will be sampled and sent off to the lab for analysis. This process will continue up the pipeline, away from the outfall until no water is observed.

4. SAMPLING RESULTS

There were surface water samples collected at three distinct outfall locations and all preceding manholes where active water flow was observed following 72 hours of antecedent dry weather. Outfall testing results are summarized in Tables 4 through 6 and the laboratory data sheets are provided in Appendix A.

Outfall #80 had substantial flow and was tested for E. coli, Enterococci, and chlorine because they exceeded EPA standards during the 2019 outfall screening. Outfall #212 was tested for E. coli and enterococci as they both exceeded EPA standards during the 2019 outfall screening. Outfall #1106 was tested for enterococci, color, chloride, and chlorine as the levels were above EPA standards. Outfall #1106 displayed orange staining in both the pipe and outfall channel.

4.1. Result Tables of Structures Sample

Table 4 – Structure #80 Results					
Parameter	2020 Illicit Discharge Results	Maryland COMAR Standard	EPA Standard		
E. coli (MPN/100ml)	205	235	126 ²		
Enterococci (MPN/100ml)	63	61	35 ²		
Chlorine (mg/L)	ND	< 0.10 mg/L	Chronic 0.011, Acute 0.019		

Table 5 – Structure #8001 Results					
Parameter Discharge COMAR EPA Standar Results Standard					
E. coli (MPN/100ml)	114	235	126 ²		
Enterococci (MPN/100ml)	38	61	35 ²		
Chlorine (mg/L)	ND	< 0.10 mg/L	Chronic 0.011, Acute 0.019		

Table 6 – Structure #8002 Results					
Parameter	2020 Illicit Discharge Results	Maryland COMAR Standard	EPA Standard		
E. coli (MPN/100ml)	248	235	126 ²		
Enterococci (MPN/100ml)	23	61	35²		
Chlorine (mg/L)	ND	< 0.10 mg/L	Chronic 0.011, Acute 0.019		

Table 7 – Structure #8003 Results					
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard		
E. coli (MPN/100ml)	122	235	126 ²		
Enterococci (MPN/100ml)	378	61	35 ²		
Chlorine (mg/L)	0.44	< 0.10 mg/L	Chronic 0.011, Acute 0.019		

Table 8 – Structure #212 Results					
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard		
E. coli (MPN/100ml)	3	235	126 ²		
Enterococci (MPN/100ml)	3	61	35 ²		

Table 9 – Structure #21201 Results				
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard	
E. coli (MPN/100ml)	2	235	126 ²	
Enterococci (MPN/100ml)	1	61	35 ²	

Table 10 – Structure #21202 Results					
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard		
E. coli (MPN/100ml)	4	235	126 ²		
Enterococci (MPN/100ml)	70	61	35 ²		

	Table 11 – Sti	ructure #21203 Re	sults
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard
E. coli (MPN/100ml)	ND	235	126 ²
Enterococci (MPN/100ml)	4	61	35 ²

	Table 12 – Sti	ructure #21204 Re	sults
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard
E. coli (MPN/100ml)	ND	235	126 ²
Enterococci (MPN/100ml)	2	61	35 ²

	Table 13 – St	ructure #1106 Res	sults
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard
Enterococci (MPN/100ml)	4	61	35 ²
Chloride	297	No existing criteria	Chronic 230, Acute 860
Chlorine (mg/L)	ND	< 0.10 mg/L	Chronic 0.011, Acute 0.019
Color	70	Maximum of 75 units as a monthly average	75

	able 14 – Str	ucture #110601 Re	esults
Parameter	2020 Illicit Discharge Result	Maryland COMAR Standard	EPA Standard
Enterococci (MPN/100ml)	NT*	61	35 ²
Chloride	285	No existing criteria	Chronic 230, Acute 860
Chlorine (mg/L)	ND	< 0.10 mg/L	Chronic 0.011, Acute 0.019
Color	125	Maximum of 75 units as a monthly average	75

*NT- Enterococci was unable to be tested due too much of an orange stain and solids present in the sample.

4.2. Evaluation of Results

Outfall #80 and three manholes: 8001, 8002, and 8003 were sampled for E. coli, Enterococci, and chlorine. Directly at Outfall #80 E. coli exceeded EPA standards and enterococci exceeded both the Maryland and EPA standards. The first manhole up the stormwater system (8001) exceeded the EPA standards in enterococci. The second manhole (8002) exceeded both Maryland and EPA standards for E. coli. The third manhole (8003) exceeded both Maryland and EPA standards for enterococci and chlorine.

Outfall #212 and five manholes: 21201, 21202, 21203, 21204, 21205 were sampled for E. coli and enterococci. 21205 was the last sample taken and it was cancelled by the lab. The outfall and most of the manholes showed low levels of E. coli and enterococci, apart from 21202 which exceeded both Maryland and EPA standards for enterococci.

Outfall #1106 and one manhole 110601 were sampled for enterococci, chloride, chlorine, and color. EPA standards for chloride were exceeded at both 1106 and 110601. Chlorine was not detected for either sample. Manhole 110601 had a distinct odor and exceeded both EPA and Maryland standards for color. Manhole 110601 was not able to be tested for enterococci due to the water having a very distinct orange stain and contained too many solids in the sample.

Table 15 –	Evaluation of F	rield and Laboratory Test Results (2020 Illicit Discharge)						
Outfall System/ Flow Type	Exceedance Parameters	Conclusions						
#80 and manholes Substantial	E. coli Enterococci Chlorine	Manhole 8003 was high in chlorine which can be an indication of possible wastewater, potable water migration into the storm drain system, and/or illicit industrial discharges. Results also suggest possible sanitary wastewater contamination or septic migration into the storm drain system.						
#212 and manholes Moderate	E. coli Enterococci	Results suggest possible sanitary wastewater contamination or septic migration into storm drain system from manhole 21202.						
#1106 and manhole Substantial	Enterococci Chloride Chlorine Color	Results suggest the elevated chloride could be a result of sewage contamination and water softener discharges. At manhole 110601 the exceeded color could be an indication of sewage, grey water and industrial discharges.						

4.3. Photo Documentation of Sampled Outfalls





Photo 1 – Structure #80

Photo 2 – Structure #212



Photo 3 - Structure #1106

5. **RECOMMENDATIONS**

E. coli and Enterococci are indicators of fecal material contamination for illicit discharge detection. We recommend the City should first contact Washington Suburban Sanitary Commission to see if any sewer pipe rehabilitation is on schedule near the three outfall systems that BayLand tracked. If sewer pipe rehabilitation has not occurred or is not on schedule in these locations, BayLand recommends closed-circuit television (CCTV) pipe inspection services that can be accessed at the outfalls, manholes, inlets or other underground structures. This will allow the City to see the condition of the pipes and determine if exfiltration is occurring. BayLand recommends the following for the individual systems that were tracked:

Outfall #80:

- CCTV beginning at the outfall and upstream of manhole 8003.
 - o This will help determine if exfiltration is occurring from the sewer system.

• If chlorine results at outfall #80 for the 2020 outfall screening are high in concentration a hot spot study may be needed at the shopping plaza on Laurel Avenue.

Outfall #212:

- CCTV beginning at the outfall and upstream to manhole 21203.
 - This will help determine if there has been septic migration into the storm drain system around manhole 21202

Outfall #1106:

- CCTV beginning at the outfall and upstream of manhole 110601.
 - Manhole 110601 had a strong sewage odor and the water was heavily stained with orange and contained some solids.
 - This will help determine if exfiltration is coming from the sewer system into manhole 110601.
 - Manhole 110601 could not be tested for enterococci as the lab considered the results unreadable due to the color and solids in the sample.

We consider the recommendations for outfall #1106 to be of highest priority and outfall #212 to be the lowest priority.

6. CONCLUSION

The Sligo Creek Watershed has been significantly influenced by commercial and residential land uses, particularly relating to the stormwater system within Takoma Park. Water sampling results during the outfall screenings over the years continue to indicate possible sanitary wastewater contamination or septic migration into storm drain system. Chloride exceeded EPA standards at outfall #1106 as well as at manhole 110601. Color exceeded the standards at manhole 110601 and was near the EPA standard at outfall #1106. E. coli and enterococci levels were low in the outfall #212 system with the exception for manhole 21202. The system for outfall #80 displayed high levels of both E. coli and enterococci. Levels of chlorine at manhole 8003 exceeded both chronic and acute EPA standards.

Tracking and locating the illicit discharges will reduce toxic pollutants which are threatening to aquatic life and human health. Outfall screening and evaluation will continue for 2020 and will follow the same methodologies used in 2019. These results will be used in conjunction with the illicit discharge tracking results.

7. REFERENCES

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APPENDIX A Laboratory Data Sheets





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

March 26, 2020

Mr. Zachary Tate
BayLands Consultants & Designers, Inc.
7455 New Ridge Rd. Suite T
Hanover, MD 21076

Certificate of Analysis

Project Name: 2019-MS4 TESTING - MD SITE Workorder: 3092934

Purchase Order: Workorder ID: Takoma Park Dry Weather

Dear Mr. Tate:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, March 18, 2020.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Bill Heckert

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Shann Bully

Ms. Shannon Butler Project Coordinator

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SAMPLE SUMMARY

Workorder: 3092934 Takoma Park Dry Weather

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3092934001	80	Water	3/18/2020 09:05	3/18/2020 20:30	Collected by Client
3092934002	8001	Water	3/18/2020 09:15	3/18/2020 20:30	Collected by Client
3092934003	8002	Water	3/18/2020 10:30	3/18/2020 20:30	Collected by Client
3092934004	1106	Water	3/18/2020 11:30	3/18/2020 20:30	Collected by Client
3092934005	110601	Water	3/18/2020 12:30	3/18/2020 20:30	Collected by Client
3092934006	212	Water	3/18/2020 13:00	3/18/2020 20:30	Collected by Client
3092934007	21201	Water	3/18/2020 13:00	3/18/2020 20:30	Collected by Client
3092934008	21202	Water	3/18/2020 13:10	3/18/2020 20:30	Collected by Client
3092934009	21203	Water	3/18/2020 13:20	3/18/2020 20:30	Collected by Client
3092934010	21204	Water	3/18/2020 13:30	3/18/2020 20:30	Collected by Client
3092934011	21205	Water	3/18/2020 13:45	3/18/2020 20:30	Collected by Client
3092934012	8003	Water	3/18/2020 10:45	3/18/2020 20:30	Collected by Client

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

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SAMPLE SUMMARY

Workorder: 3092934 Takoma Park Dry Weather

Notes

- -- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.
- -- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- -- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- -- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- -- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- -- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

- J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
- U Indicates that the analyte was Not Detected (ND)
- N Indicates presumptive evidence of the presence of a compound
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- RDL Reporting Detection Limit
- ND Not Detected indicates that the analyte was Not Detected at the RDL
- Cntr Analysis was performed using this container
- RegLmt Regulatory Limit
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- %Rec Percent Recovery
- RPD Relative Percent Difference
- LOD DoD Limit of Detection
 LOQ DoD Limit of Quantitation
- DL DoD Detection Limit
 - I Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
- (S) Surrogate Compound
- NC Not Calculated
- * Result outside of QC limits

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

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PROJECT SUMMARY

Workorder: 3092934 Takoma Park Dry Weather

Sample Comments

Lab ID: 3092934011Sample ID: 21205Sample Type: SAMPLE

Analysis cancelled. No sample bottle recieved. SB 03/24/2020.

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: Date Collected: 3/18/2020 09:05 Matrix: Water 3092934001

Date Received: 3/18/2020 20:30 Sample ID: 80

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY Chlorine, Total Residual	ND	1	mg/L	0.10	SM4500-CI G- 2011			3/24/20 07:10	R2B	A
MICROBIOLOGY E. Coli Enterococcus	205 63	3 4	MPN/100mL MPN/100mL	1	S9223B-04 Enterolert	3/19/20 16:51 3/19/20 16:40		3/20/20 17:18 3/20/20 17:04	MBR MBR	B B

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934002 Date Collected: 3/18/2020 09:15 Matrix: Water

Sample ID: 8001 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY Chlorine, Total Residual	ND	1	mg/L	0.10	SM4500-CI G- 2011			3/24/20 07:10	R2B	A
MICROBIOLOGY E. Coli Enterococcus	114 38	Ū	MPN/100mL MPN/100mL	1	S9223B-04 Enterolert	3/19/20 16:51 3/19/20 16:40		3/20/20 17:18 3/20/20 17:04	MBR MBR	B B

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934003 Date Collected: 3/18/2020 10:30 Matrix: Water

Sample ID: 8002 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY Chlorine, Total Residual	ND	1	mg/L	0.10	SM4500-CI G- 2011			3/24/20 07:10	R2B	A
MICROBIOLOGY E. Coli Enterococcus	23 248	Ū	MPN/100mL MPN/100mL	1	S9223B-04 Enterolert	3/19/20 16:51 3/19/20 16:40		3/20/20 17:18 3/20/20 17:04	MBR MBR	B B

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ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934004 Date Collected: 3/18/2020 11:30 Matrix: Water

Sample ID: 1106 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY										
Chloride	297		mg/L	5.0	EPA 300.0			3/25/20 05:53	MBW	Α
Chlorine, Total Residual	ND	1	mg/L	0.10	SM4500-CI G- 2011			3/24/20 07:10	R2B	Α
Color, Apparent	70	2	CU	5	SM2120B-2011			3/20/20 09:18	R2B	Α
MICROBIOLOGY										
Enterococcus	4	3	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	С

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ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934005 Date Collected: 3/18/2020 12:30 Matrix: Water

Sample ID: 110601 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY										
Chloride	285		mg/L	5.0	EPA 300.0			3/25/20 06:10	MBW	Α
Chlorine, Total Residual	ND	1	mg/L	0.10	SM4500-Cl G- 2011			3/24/20 07:10	R2B	Α
Color, Apparent	125	2	CU	5	SM2120B-2011			3/20/20 09:18	R2B	Α

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ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934006 Date Collected: 3/18/2020 13:00 Matrix: Water

Sample ID: 212 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
MICROBIOLOGY										
E. Coli	3	1	MPN/100mL	1	S9223B-04	3/19/20 16:51	TDB	3/20/20 17:18	MBR	Α
Enterococcus	3	2	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	Α

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934007 Date Collected: 3/18/2020 13:00 Matrix: Water

Sample ID: 21201 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
MICROBIOLOGY										
E. Coli	2	1	MPN/100mL	1	S9223B-04	3/19/20 16:51	TDB	3/20/20 17:18	MBR	Α
Enterococcus	1	2	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	Α

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934008 Date Collected: 3/18/2020 13:10 Matrix: Water

Sample ID: 21202 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
MICROBIOLOGY										
E. Coli	4	1	MPN/100mL	1	S9223B-04	3/19/20 16:51	TDB	3/20/20 17:18	MBR	Α
Enterococcus	70	2	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	Α

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934009 Date Collected: 3/18/2020 13:20 Matrix: Water

Sample ID: 21203 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
MICROBIOLOGY										
E. Coli	ND	1	MPN/100mL	1	S9223B-04	3/19/20 16:51	TDB	3/20/20 17:18	MBR	Α
Enterococcus	4	2	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	Α

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934010 Date Collected: 3/18/2020 13:30 Matrix: Water

Sample ID: 21204 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
MICROBIOLOGY										
E. Coli	ND	1	MPN/100mL	1	S9223B-04	3/19/20 16:51	TDB	3/20/20 17:18	MBR	Α
Enterococcus	2	2	MPN/100mL	1	Enterolert	3/19/20 16:40	TDB	3/20/20 17:04	MBR	Α

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934011 Date Collected: 3/18/2020 13:45 Matrix: Water

Sample ID: 21205 Date Received: 3/18/2020 20:30

Parameters Results Flag Units RDL Method Prepared By Analyzed By Cntr

ADMINISTRATIVE

Sample Cancelled Cancelled 3/24/20 12:00 SB

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ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

Lab ID: 3092934012 Date Collected: 3/18/2020 10:45 Matrix: Water

Sample ID: 8003 Date Received: 3/18/2020 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
WET CHEMISTRY Chlorine, Total Residual	0.44	3	mg/L	0.10	SM4500-CI G- 2011			3/24/20 07:10	R2B	С
MICROBIOLOGY E. Coli Enterococcus	122 378	•	MPN/100mL MPN/100mL	1	S9223B-04 Enterolert	3/19/20 16:51 3/19/20 16:40		3/20/20 17:18 3/20/20 17:04	MBR MBR	

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ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

∟ab ID	#	Sample ID	Analytical Method	Analyte
3092934001	1	80	SM4500-Cl G-2011	Chlorine, Total Residual
				mmediately" require analysis within 15 minutes of
		· · · · · · · · · · · · · · · · · · ·	d holding time when analyzed in the	•
8092934001	3	80	S9223B-04	E. Coli
,		t the 8 hour holding time.	Entracted	Estance
8092934001	4	80	Enterolert	Enterococcus
		t the 8 hour holding time.	0144500 01 0 0044	Oblasia Tatal Davidsal
8092934002	1	8001	SM4500-Cl G-2011	Chlorine, Total Residual
ollection, and are	sis is ar therefo	re analyzed outside of the metho	d holding time when analyzed in the	mmediately" require analysis within 15 minutes of aboratory.
3092934002	3	8001	S9223B-04	E. Coli
Analyte was analyz	ed pas	t the 8 hour holding time.		
3092934002	4	8001	Enterolert	Enterococcus
Analyte was analyz	ed pas	t the 8 hour holding time.		
3092934003	1	8002	SM4500-CI G-2011	Chlorine, Total Residual
•			•	mmediately" require analysis within 15 minutes of
		· · · · · · · · · · · · · · · · · · ·	d holding time when analyzed in the	•
8092934003	3	8002	S9223B-04	E. Coli
,		t the 8 hour holding time.	.	- .
8092934003	4	8002	Enterolert	Enterococcus
3092934003 Analyte was analyz	4 ed pas	8002 t the 8 hour holding time.		
3092934003 Analyte was analyz 3092934004	4 ed pas 1	8002 t the 8 hour holding time. 1106	SM4500-Cl G-2011	Chlorine, Total Residual
3092934003 Analyte was analyz 3092934004 The chlorine analys	4 ed pas 1 sis is ar	8002 t the 8 hour holding time. 1106 n "analyze immediately" analysis.	SM4500-Cl G-2011 Parameters identified as "analyze in	Chlorine, Total Residual mmediately" require analysis within 15 minutes of
3092934003 Analyte was analyz 3092934004 The chlorine analys collection, and are	4 ed pas 1 sis is ar	8002 t the 8 hour holding time. 1106 n "analyze immediately" analysis.	SM4500-Cl G-2011 Parameters identified as "analyze in d holding time when analyzed in the	Chlorine, Total Residual mmediately" require analysis within 15 minutes of aboratory.
8092934003 Analyte was analyz 8092934004 The chlorine analys collection, and are 1 8092934004	4 sed pas 1 sis is ar therefo	8002 t the 8 hour holding time. 1106 t "analyze immediately" analysis. re analyzed outside of the metho 1106	SM4500-Cl G-2011 Parameters identified as "analyze in d holding time when analyzed in the SM2120B-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of
8092934003 Analyte was analyz 8092934004 The chlorine analys collection, and are 1 8092934004	4 sed pas 1 sis is ar therefo	8002 t the 8 hour holding time. 1106 "analyze immediately" analysis. re analyzed outside of the metho	SM4500-Cl G-2011 Parameters identified as "analyze in d holding time when analyzed in the SM2120B-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of elaboratory. Color, Apparent
3092934003 Analyte was analyz 3092934004 The chlorine analys collection, and are to the color analysis was an alysis was allowed an alysis was allowed an alysis was an alysis was an alysis was allowed an allowed allowed an allowed allowed an allowed an allowed an allowed a	4 sed pas 1 sis is ar therefo 2 was pe 3	8002 t the 8 hour holding time. 1106 n "analyze immediately" analysis. re analyzed outside of the metho 1106 rformed on a sample aliquot with	SM4500-Cl G-2011 Parameters identified as "analyze in the holding time when analyzed in the SM2120B-2011 a pH of 6.667.	Chlorine, Total Residual mmediately" require analysis within 15 minutes of aboratory.
3092934003 Analyte was analyz 3092934004 The chlorine analys collection, and are to the color analysis was an alysis was allowed an alysis was allowed an alysis was an alysis was an alysis was allowed an allowed allowed an allowed allowed an allowed an allowed an allowed a	4 sed pas 1 sis is ar therefo 2 was pe 3	8002 t the 8 hour holding time. 1106 "analyze immediately" analysis. re analyzed outside of the metho 1106 rformed on a sample aliquot with	SM4500-Cl G-2011 Parameters identified as "analyze in the holding time when analyzed in the SM2120B-2011 a pH of 6.667.	Chlorine, Total Residual mmediately" require analysis within 15 minutes of elaboratory. Color, Apparent
Analyte was analyz 3092934004 The chlorine analys collection, and are of 3092934004 The color analysis of 3092934004 Analyte was analyz 3092934005	4 eed pas 1 sis is artherefo 2 was pe 3 eed pas	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. IT analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601	SM4500-Cl G-2011 Parameters identified as "analyze in the dholding time when analyzed in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent Enterococcus Chlorine, Total Residual
3092934003 Analyte was analyz 3092934004 The chlorine analys collection, and are of 3092934004 The color analysis of 3092934004 Analyte was analyz 3092934005 The chlorine analys	4 ed pas 1 sis is arr therefo 2 was pe 3 ed pas 1 sis is arr	8002 It the 8 hour holding time. 1106 "analyze immediately" analysis. The analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 "analyze immediately" analysis.	SM4500-Cl G-2011 Parameters identified as "analyze in the dholding time when analyzed in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of aboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of
3092934003 Analyte was analyz 3092934004 The chlorine analys collection, and are of 3092934004 The color analysis of 3092934004 Analyte was analyz 3092934005 The chlorine analys	4 ed pas 1 sis is arr therefo 2 was pe 3 ed pas 1 sis is arr	8002 It the 8 hour holding time. 1106 "analyze immediately" analysis. The analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 "analyze immediately" analysis.	SM4500-Cl G-2011 Parameters identified as "analyze identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM4500 and SM45	Chlorine, Total Residual mmediately" require analysis within 15 minutes of aboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of
Analyte was analyz 3092934004 The chlorine analys collection, and are of 3092934004 The color analysis of 3092934004 Analyte was analyz 3092934005 The chlorine analys collection, and are of 3092934005	4 sed pas 1 sis is artherefo 2 was pe 3 sed pas 1 sis is artherefo 2	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. IT analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. IT analyzed outside of the metho	SM4500-Cl G-2011 Parameters identified as "analyze id holding time when analyzed in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze id holding time when analyzed in the SM2120B-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory.
Analyte was analyz 3092934004 The chlorine analys collection, and are of 3092934004 The color analysis of 3092934004 Analyte was analyz 3092934005 The chlorine analys collection, and are of 3092934005	4 sed pas 1 sis is artherefo 2 was pe 3 sed pas 1 sis is artherefo 2	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. IT analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. IT analyzed outside of the metho 110601	SM4500-Cl G-2011 Parameters identified as "analyze id holding time when analyzed in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze id holding time when analyzed in the SM2120B-2011	Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory.
Analyte was analyzed and are to the color analysed analyzed analyzed analysed analysis analys	4 sed pas 1 sis is artherefo 2 was pe 3 sed pas 1 sis is artherefo 2 was pe 1	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. re analyzed outside of the metho 1106 Ifformed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. re analyzed outside of the metho 110601 Ifformed on a sample aliquot with	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593.	Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent
Analyte was analyzed and are to the color analysed analyzed analyzed analysed analysis analys	4 sed pas 1 sis is artherefo 2 was pe 3 sed pas 1 sis is artherefo 2 was pe 1	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. It e analyzed outside of the metho 1106 Informed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. It e analyzed outside of the metho 110601 Informed on a sample aliquot with 212	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593.	Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of laboratory. Color, Apparent
Analyte was analyz analyz was analyz analyz was analyz was analyz	4 sed pas 1 sis is ar therefo 2 was pe 3 sed pas 1 sis is ar therefo 2 was pe 1 sis ed pas 1 sid year therefo 2 was pe 1 sid year therefo 2 was pe 1 sed pas 2	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. re analyzed outside of the metho 1106 Ifformed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. Ire analyzed outside of the metho 110601 Ifformed on a sample aliquot with 212 It the 8 hour holding time.	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593. S9223B-04	Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent E. Coli
Analyte was analyz Bo92934004 The chlorine analys Collection, and are of Bo92934004 The color analysis of Bo92934004 Analyte was analyz Bo92934005 The chlorine analys Collection, and are of Bo92934005 The color analysis of Bo92934005 The color analysis of Bo92934006 Analyte was analyz Bo92934006	4 sed pas 1 sis is ar therefo 2 was pe 3 sed pas 1 sis is ar therefo 2 was pe 1 sis ed pas 1 sid year therefo 2 was pe 1 sid year therefo 2 was pe 1 sed pas 2	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. re analyzed outside of the metho 1106 Ifformed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. re analyzed outside of the metho 110601 Ifformed on a sample aliquot with 212 It the 8 hour holding time. 212	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593. S9223B-04	Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent E. Coli
Analyte was analyz Bo92934004 The chlorine analys Bo92934004 The color analysis of the color analysis of the chlorine analyz Bo92934004 Analyte was analyz Bo92934005 The chlorine analys Bo92934005 The color analysis of t	ded pass 1 sis is arritherefo 2 was pe 3 sed pass 1 sis arritherefo 2 was pe 1 sed pass 2 sed pass 1	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. IT analyze outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. IT analyze outside of the metho 110601 If ormed on a sample aliquot with 212 It the 8 hour holding time. 212 It the 8 hour holding time.	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593. S9223B-04 Enterolert	Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent E. Coli Enterococcus
Analyte was analyz Bo92934004 The chlorine analys Bo92934004 The color analysis of the color analysis of the chlorine analyz Bo92934004 Analyte was analyz Bo92934005 The chlorine analys Bo92934005 The color analysis of t	ded pass 1 sis is arritherefo 2 was pe 3 sed pass 1 sis arritherefo 2 was pe 1 sed pass 2 sed pass 1	8002 It the 8 hour holding time. 1106 I "analyze immediately" analysis. re analyzed outside of the metho 1106 If ormed on a sample aliquot with 1106 It the 8 hour holding time. 110601 I "analyze immediately" analysis. re analyzed outside of the metho 110601 If ormed on a sample aliquot with 212 It the 8 hour holding time.	SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.667. Enterolert SM4500-Cl G-2011 Parameters identified as "analyze in the SM2120B-2011 a pH of 6.593. S9223B-04 Enterolert	Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent Enterococcus Chlorine, Total Residual mmediately" require analysis within 15 minutes of e laboratory. Color, Apparent E. Coli Enterococcus

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3092934 Takoma Park Dry Weather

3092934008	1	21202	S9223B-04	E. Coli	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934008	2	21202	Enterolert	Enterococcus	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934009	1	21203	S9223B-04	E. Coli	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934009	2	21203	Enterolert	Enterococcus	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934010	1	21204	S9223B-04	E. Coli	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934010	2	21204	Enterolert	Enterococcus	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934012	1	8003	S9223B-04	E. Coli	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934012	2	8003	Enterolert	Enterococcus	
Analyte was anal	lyzed pas	t the 8 hour holding time.			
3092934012	3	8003	SM4500-CI G-2011	Chlorine, Total Residual	

The chlorine analysis is an "analyze immediately" analysis. Parameters identified as "analyze immediately" require analysis within 15 minutes of collection, and are therefore analyzed outside of the method holding time when analyzed in the laboratory.

ALS Environmental Laboratory Locations Across North America

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3092934 Takoma Park Dry Weather

Lab ID	Sample ID	Analysis Method	Prep Method
3092934001	80	Enterolert	Enterolert
3092934001	80	S9223B-04	S9223B-04
3092934001	80	SM4500-CI G-2011	
3092934002	8001	Enterolert	Enterolert
3092934002	8001	S9223B-04	S9223B-04
3092934002	8001	SM4500-Cl G-2011	
3092934003	8002	Enterolert	Enterolert
3092934003	8002	S9223B-04	S9223B-04
3092934003	8002	SM4500-Cl G-2011	
3092934004	1106	EPA 300.0	
3092934004	1106	Enterolert	Enterolert
3092934004	1106	SM2120B-2011	
3092934004	1106	SM4500-Cl G-2011	
3092934005	110601	EPA 300.0	
3092934005	110601	SM2120B-2011	
3092934005	110601	SM4500-Cl G-2011	
3092934006	212	Enterolert	Enterolert
3092934006	212	S9223B-04	S9223B-04
3092934007	21201	Enterolert	Enterolert
3092934007	21201	S9223B-04	S9223B-04
3092934008	21202	Enterolert	Enterolert
3092934008	21202	S9223B-04	S9223B-04
3092934009	21203	Enterolert	Enterolert
3092934009	21203	S9223B-04	S9223B-04
3092934010	21204	Enterolert	Enterolert
3092934010	21204	S9223B-04	S9223B-04
3092934012	8003	Enterolert	Enterolert
3092934012	8003	S9223B-04	S9223B-04
3092934012	8003	SM4500-Cl G-2011	

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Spe 12 Ce 22 1 Q State Samples Rev 8/04 Collected In oPickup oLabor oComposite nitia ₽ ž A 2 QV ≩ 2 Receipt Information (completed by Receiving Lab) 880, 3 × half a sample was collected Samuel Not received oRental Equipment At Them ID: Special Processing Sample/COC Comments Sample Disposal USACE Naw Lab Special (if present) Seals Intact? Headspace/Volatiles? Custody Soals Prosent? Received on Ice? COCILabels Complete/Accurate? Cant. in Good Cond.? Correct Containers? Cornect Sample Volumes? Correct Preservation? 4 209293 SUMMES ALSI Field Services: ALSI Quote #: 701680 Cooler Temp: Courier/Tracking #: oOther: "Maria", AFA", DWEDTIRING WAILING PINK - FILE GOLDENROD - CUSTOMER COPY SINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY No. of Coolers: Reportable to PADEP7 CLP-like USACE Standard EDDS: Format Type-COC #: 0 31912020 125 STIST S9230COLM, S9223MD_TC # QISMd Yes 129 Deliverables 29223ECOLM Data 32,20 g Time TOTALN, TRMD200.7 5/18/23/2 250 Date or Field ANALYSES/METHOD REQUESTED SZS10WCOND, S4500CTKNW o 88 1000 Received By / Company Name S2120BCOLR, S2130BTURD 50 th Revised COC Ottac REQUEST FOR ALL SHADED AREAS MUST BE SAMPLER. INSTRUC (overler MH3 IC 9TW1.888 8 1 300 WCHL, 300 WFLU - OGGED BY(signature): Joše McCarthy Plastic ġ, 200.7TB, 200.7THA, 200.7TK (EVIEWED BY(signature): 2:40 PM Presentativo Container xinteM" Surface Water WHITE - ORIGINAL Containe 828 G or C Provided 3/18/2020 12:30 9:15 10:30 11:30 1:30 Date 9:05 1:00 1:00 1:10 120 1:45 Time G=Grab, C=Composite Rush-Subject to ALS approval and surcharges. 34 Dogwood Lane Middletown, PA 17057 P. 717-944-5541 F.717-944-1430 x Normal-Standard TAT is 10-12 business days. Sample Project Name/#: Takoma Park Dry Weather Screening Date 3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18 Client Name: BayLand Consultants & Designers Inc. BayLand Consultants & Designers, Inc. Copies: x V ztate@baylandinc.com Relinquished By I Company Name 3/19/2020 Address: 7455 New Ridge Road, Suite 1 Sample Description/Location CORRETE (as it will appear on the lab report) Environmental Hanover, MD 21076 Phone#: 410-694-9401 Y No. Contact: Zach Tate FIS roject Comments: Same Date Required: 8003 Bill To: TAT 110601 Email? 21202 21203 21204 21205 21201 8002 1106 Fax? 8001 212 8 85

ALS



301 Fulling Mill Road Middletown, PA 17057

P: (717) 944-5541 F: (717) 944-1430

Condition of Sample Receipt Form

Client: Bayland 3092934 qo 3119/2020 1. Were airbills / tracking numbers present and recorded? NONE YES Tracking number: NONE YES 2. Are Custody Seals on shipping containers intact? NONE YES 3. Are Custody Seals on sample containers intact? NONE YES 4. Is there a COC (Chain-of-Custody) present? YES 5. Are the COC and bottle labels complete, legible and in agreement? YES 5a. Does the COC contain sample locations? YES 5b. Does the COC contain date and time of sample collection for all samples? YES 5c. Does the COC contain sample collectors name? COLIENT YES 5d. Does the COC note the type(s) of preservation for all bottles? Odded to COC YES 5e. Does the COC note the number of bottles submitted for each sample? YES	
1. Were airbills / tracking numbers present and recorded?	
Tracking number: 2. Are Custody Seals on shipping containers intact?	
Tracking number: 2. Are Custody Seals on shipping containers intact?	NO
2. Are Custody Seals on shipping containers intact?	
3. Are Custody Seals on sample containers intact?	NO I
4. Is there a COC (Chain-of-Custody) present?	NO
5. Are the COC and bottle labels complete, legible and in agreement?	NO
5a. Does the COC contain sample locations?	_
5b. Does the COC contain date and time of sample collection for all samples?	90
5c. Does the COC contain sample collectors name?	NO
5d. Does the COC note the type(s) of preservation for all bottles?	100
	100
se. Does the COC note the number of bottles submitted for each sample:	90
Sf. Does the COC note the type of sample, composite or grab?	9
5g. Does the COC note the matrix of the sample(s)?	100
6. Are all aqueous samples requiring preservation preserved correctly?1	NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?	(S)
8. Are all samples within holding times for the requested analyses? TC/EC_ccexxcd_past_hold_6_by YES (3
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)	NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?	NO
11. Were the samples received on ice?	NO I
12. Were sample temperatures measured at 0.0-6.0°C	NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below	(o)
13a. Are the samples required for SDWA compliance reporting?	100
13b. Did the client provide a SDWA PWS ID#?	NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?	10
13d. Did the client provide the SDWA sample location ID/Description?	NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?	NO
to the time provide the source type (s), 4, (4, 6, 1, 1, 5).	
Cooler #:	
Temperature (°C): 2	
Thermometer ID: 441	

COMMENTS (Required for all NO responses above and any sample non-conformance):

* received extra set 8003, collected 3/18/2020 @ 1045, added to coc did not receive 1 sample 110601 - P 125 ST, per coc half a sample collected

** limited volume received for MBAS - P 250 UNP

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis

Rev 1/20/2020

Radiological (µCi):

P. 717-944-5541 F.717-944-1430

Environmental

Middletown, PA 17057 301 Fulling Mill Road

REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT I CHAIN OF CUSTODY/

Generated by ALSI

3092934 COC #:

ALSI Quote #: 701680

5 0

Client Name: BayLand Consultants & Designers Inc.	ers Inc.	Type	-	nepi	Anten	Plastic	Masuc					Keceipt	Receipt Information (completed by Receiving Lab)	y Kecen	ing Lab)
Address: 7455 New Ridge Road, Suite T		Container	-	125 mL 1:	125 mL 2	250 mL	200 mL					Cooler Temp:	mp: Therm ID:		
Hanover, MD 21076		Preservative		ST	ST	none	none					No. of Coolers:		z	Initial
Contact: Zach Tate		_	-			ANAL	YSESIME	ANALYSES/METHOD REQUESTED	JESTED				Custody Seals Present?		
Phone#: 410-694-9401			\vdash		H								(if present) Seals Intact?		
Project Name/#: Takoma Park Dry Weather Screening	Screening												Received on Ice?		
Bill To: Same					- 5							COC/Lab	COCILabels Complete/Accurate?		
X Normal-Standard TAT is 10-12 business days.	2 business days.			0									Cont. in Good Cond.?		
I AI Rush-Subject to ALS approval and surcharges.	al and surcharges			0) .: 50%		əı				Þ			Correct Containers?		
Date Required: Appr	Approved By:			2 J W		lorin	əbi					8	Correct Sample Volumes?		
ر×.	티	Т		101100 115	iooi	чо је	noldC						Correct Preservation?		
				3 B	eroc	nbia	lor, C						Headspace/Volatiles?		
uc	63	10 (hatr	전	- 1	Вe	о э			İ		CourierTracking #:	scking #:		
(as it will appear on the lab report)	Date Time	9.	N		Ente	r Number	of Contain	Enter Number of Containers Per Sample or Field Results Below	ple or Field F	esults Belo	W.		Sample/COC Comments	ents	
08	3/18/20 905			-	-	-						Revi	hevised CDC prepared	Sacr	なな
3 8001	3/18/20 9015	2	9 8	-	1.	-						Shannon	non Buttere ALS	7	S De
3 8002	3/18/20 1030	0		-	+	-		100	_			Dhone	7	3	A
Д 1106	3/18/20 1130	0		i i	1	1	1					Tak	ate a bourlands	5 58	3 Misson
5 110601	3/18/20 1230	0				1	-					half san	half samlpes collected - No micro	lo mic	
y 212	3/18/20 1300			1	1										8 8
1 21201	3/18/20 1300	0		1	1										
9 21202	3/18/20 1310	0		1	÷										
	3/18/20 1320	0		1								ALSI	ALSI Field Services: oPickup	cup o	Pickup oLabor
10 21204	3/18/20 1330	0		1	1							oOther:	Sille Salling	וומו בא	
Project Comments:	J3000T	LOGGED BY(signature):	ire):					3sv0		3/41	×	Standard	Special Processing	State	State Samples
	REVIEW	REVIEWED BY(signature):	ature):					3140		380	ata erable	CLP-like	USACE	ខ	Collected in
Relinquished By I Company Name	e Date	e Time	Je		Receive	d By / Co	Received By / Company Name	ıme	Date	Time	elive	USACE	Navy		λ
1		8 S	2								a				2
8			4								Reportable	Reportable to PADEP?	Sample Disposal	×	PA
S			9								Yes		Lab Lab		NC
7			89								FWSID #		Special		MD
6			9								EDDS: Format Type-	at Type-		1	**
• G=Grab; t	=Composite	**Matrix - /	Al=Air, L	W-Drink	ng Water	: GW=Gr	undwater;	OI=OII; OL=C	Wher Liquid;	SL=Sludge;	SO=Soil; WP=V	"Matrix - Al=Air, DW=Drinking Water, GW=Groundwater, Ol=Oll; OL=Olher Liquid; SL=Sludge; SO=Soil; WP=Wipe, WW=Wastewater	ewater		
Copies:) - E	ORIGINA	_	CANAF	Y-cus	TOMER	MAILING	PIK	- FILE	GOLDE	NROD - CUS	TOMER COPY			Rev 8/04

301 Fulling Mill Road Middletown, PA 17057 P. 717-944-5541 F.717-944-1430

erabed by ALSI

COC #:

ALSI Quote #: 701680

7 6 7

Environmental F.717-944-1430				SAMPLE	R INST	SAMPLER, INSTRUCTIONS ON THE BACK	E BACK.				•
Client Name: BayLand Consultants & Designers Inc.		Container	Plastic	Plastic	Plastic	Plastic			Receipt Information	Receipt Information (completed by Receiving Lab)	eiving Lab)
Address: 7455 New Ridge Road, Suite T		Contaner Size	125 mL	125 mL	250 mL	500 mL			Cooler Temp:	Therm ID:	
Hanover, MD 21076		Preservative	ST	.S.	попе	попе			No. of Coolers:	\ \	Initial
Contact: Zach Tate				-	ANAL	ANALYSES/METHOD REQUESTED	VESTED		Custody Seals Present?		
Phone#: 410-694-9401	22			-	Г				(if present) Soals Intact?	sals intact?	
Project Name!#: Takoma Park Dry Weather Screening									Receive	Received on Ice?	
Bill To: Same									COC/Labels Complete/Accurate?	/Accurate?	
TAT X Normal-Standard TAT is 10-12 business days.	ss days.		ilo						Cont. in Good Cond.?	ood Cond.?	
Rush-Subject to ALS approval and surcharges.	rcharges.		∞.∃		əu				Correct Co	Correct Containers?	
quired:	, i.		առ՝ լ		inold	əbin			Correct Sample Volumes?	Volumes?	
Email? x -Y Ztate(QDaylandinc.com		200	Colifo	,000c	O feut	., СЫ			Correct Preservation?	servation?	
Sample		Or C atrix	Total	netn 🗵	oiseS	noloC			CourierTracking #:	Volatiles?	
100	Time	_	L		er Numbe	Enter Number of Containers Per Sample or Field Results Below.	mple or Field Re	ults Below.	Sample	Sample/COC Comments	
N 21205 3/18/20	1345		-	_=							
3/18/20	1045		-		-						
				_							
							9				
			23	_							
									ALSI Field Services:	-	oLabor
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Project Comments:	LOGGED BY (signature):	signature):		_		3,140		×	Standard Special	Special Processing Sta	State Samples
	REVIEWED BY(signature):	Y(signatur	÷	_		:auvo		eta sta rable	CLP-like	USACE C	Collected In
Relinquished By / Company Name	Date	Time		Receiv	ed By / Co	Received By / Company Name	Date	elive	USACE	Navy	ž
1	8		2								2
3			4					Reportable	Reportable to PADEP? Sample	Sample Disposal x	PA
5.			9	_	8			Yes		Lab	2
7			. 00	_				# diswd		Special	MD
6			10					EDDS: Format Type-	ıt Type-		WV
GeGrab; C=Composite	ė	Btrix - AIF	Air, DW=Un CAN	nking wate	STOMER	V=Drinking Water, GW=Groundwater, Ol=Oit, OL CANARY - CUSTOMER MAILING PIN	OL=Other Liquid; SL PINK - FILE	**Matrix - Al=Air, DW=Drinking Water, GW=Groundwater; OI=OII; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater ORIGINAL GANARY - CUSTOMER MAILING PINK • FILE GOLDENROD - CUSTOMER COPY	ipe; WW=Wastewater OMER COPY		Rev 8/04





NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DOD ELAP: PJ LA 74618 State Certifications: FL E 871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

PROJECT SUMMARY

Workorder: 3095672 Takoma Park Dry Weather Screen

Sample Comments

Lab ID: 3095672001Sample ID: 110601Sample Type: SAMPLE

Sample was run for total coliform and e. coli, but a result could not be determined due to the color of the sample. This method is a color metric method and samples are results are determined from a yellow color spectrum. This sample was brownish/orange and could not be determined on the yellow color spectrum. SB 04/10/2020.

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DOD ELAP: PJ LA 74618 State Certifications: FL E 871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

ANALYTICAL RESULTS

Workorder: 3095672 Takoma Park Dry Weather Screen

Lab ID: 3095672001 Date Collected: 4/6/2020 14:10 Matrix: Water

Sample ID: 110601 Date Received: 4/6/2020 20:45

Parameters Results Flag Units RDL Method Prepared By Analyzed By Cntr

ADMINISTRATIVE

Sample Cancelled Cancelled 4/10/20 14:30 SB A

Ms. Shannon Butler Project Coordinator

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