

Our ref: 11135752

July 30, 2021

Jennifer Carpenter
Assistant Director
Florida Department of Environmental Protection
South District Office
2295 Victoria Avenue #364
Fort Myers, FL 33901

Quarterly Summary Report

Fecal Indicator Bacteria and Source Specific Monitoring – May, June, and July 2021
Billy Creek and Manuel Branch
City of Fort Myers, Florida

Dear Ms. Carpenter:

GHD Services Inc. (GHD), on behalf of the City of Fort Myers (City), is submitting this quarterly report of results for the May, June, July 2021 monitoring events that we performed for the above-referenced project.

1. Purpose

The intent of the May, June, and July sampling events is to partially satisfy Condition 5(G) of the Consent Order between DEP and the City of Fort Myers (OGC No. 20-0851), effective date February 23, 2021. Per Condition No. 5(G) of the Consent Order, the City is required to *“Conduct and submit a minimum of quarterly sampling data for untreated human waste indicators (HF-183 and acetaminophen at a minimum) for at least 4 quarters to the Department for the watersheds referenced in subparagraph 5(F) above (minimum 2 stations per watershed). If untreated human waste indicators persist, quarterly source specific monitoring shall continue until clear for at least two consecutive quarters. Deadline: April 30, 2021; July 31, 2021; October 31, 2021”* The City has expanded the sampling program beyond the minimum identified in 5(G). This report summarizes the field and analytical results for samples GHD collected at select locations as submitted to the FDEP in the Pollution Reduction Plan (the Plan) (GHD, July 29, 2021) within the Billy Creek and Manuel Branch watersheds in May, June, and July.

2. Sample Collection

Trained sampling personnel collected surface water samples at locations along Billy Creek and tributaries, and Manuel Branch (see attached **Figures 1, 2, and 3**). Sample locations included predetermined stormwater outfall areas, areas identified to further investigate/delineate prior sample results, and at areas of concern

identified during the Maps on Table (MOT) and Walk the Watershed (WTW) events as described in the Plan. Scattered trash/refuse was observed at some of the sample locations during the sampling events.

The sampling (by GHD) and laboratory analyses (by Benchmark Analytical Laboratories, North Port, Florida; Source Molecular, Miami Lakes, Florida; and, Eurofins Eaton Analytical in South Bend, Indiana) were performed in general conformance with the Florida Department of Environmental Protection field sampling and laboratory analysis quality assurance protocols codified in Chapter 62-160 FAC and Standard Operation Procedures for Field Activities (FDEP SOP-001/01).

Samples were placed in accredited laboratory-provided containers, labeled and iced prior to being transported by GHD the day of collection to the accredited laboratories for analyses under documented legal chain of custody. Monthly samples were analyzed for *Escherichia coli* (*E. coli*) by SM 9223B). Additionally, quarterly samples collected from select locations were analyzed for the presence of human genetic material (HF183 by quantitative Polymerase Chain Reaction (qPCR)) DNA analytical technology and acetaminophen by EPA 1694 Personal Care Products. The locations subject to additional analyses were selected in consideration of the location of stormwater outfalls and on observations made during internal reconnaissance and the WTW events.

Field parameters measured at the time of sample collection included temperature, specific conductance, dissolved oxygen (DO), pH and turbidity. Measuring these parameters and recording them lend to the representativeness and reproducibility of the samples and document the conditions under which the samples are collected. Copies of the field sampling documentation and the laboratory reports are included as **Attachment 1. Table 1 and Figures 1, 2, and 3** summarize the May, June, and July 2021 individual laboratory results for all samples analyzed.

2.1 May 2021 Sample Results

In consideration of the April 2021 sample results, surface water samples were collected from twenty-seven (27) locations on May 12 and 13, 2021, with twenty-one (21) locations within the Billy Creek watershed, and six (6) locations along Manuel Branch. Additional sample locations were selected to address potential concern associated with a City-owned lift station located along Ballard canal in the Billy Creek Watershed, and to further delineate a possible new or ongoing point source between Manuel-2 and Manuel-3 along Manuel Branch. Samples were analyzed for the presence of *E. coli* by Benchmark Analytical Laboratories, North Port, Florida and results were compared to the following action trigger categories, as identified in the Florida Department of Environmental Protection's August 2018 *Restoring Bacteria-Impaired Waters, A Toolkit to Help Local Stakeholders Identify and Eliminate Potential Pathogen Problems (Toolkit)*, Version 3.0. According to the Toolkit, Course of Action Triggers and responses are as follows:

- Possible emergency: Results in the range of hundreds of thousands of colony forming units (cfu)/100 milliliter (mL). As interpreted by GHD for the purpose of this analyses, this category would result with any values of either *E. coli* or Enterococci counts greater than 100,000 cfu/100mL. Any stormwater or ambient water samples in this range, barring any inflation at the time of sampling (e.g., biofilm disturbance), should be immediately revisited. Any value above 100,000cfu/100mL is the first indication of a likely hot spot from one of the following: a potential sanitary sewer overflow (SSO); illegal dumping; an illicit connection; or a failing Onsite Sewage Treatment and Disposal Systems (OSTDS). It is recommended that a return trip to the site be accomplished as soon as possible to investigate the contributing area for signs of the potential source. Further, it is recommended that a resample at the original site be obtained and that samples be taken throughout the contributing area to narrow down the locational origin. Acetaminophen and HF183 analyses of the samples is recommended to confirm or deny the presence of an anthropogenic source.

- Very concerning level: Results in the range tens of thousands of cfu/100mL. As interpreted by GHD for the purpose of these analyses, this category would result with any values of either E. coli or Enterococci counts greater than or equal to 10,000 cfu/100mL but less than 100,000 cfu/100mL. If the actual count is what is confirmed after reviewing laboratory QA/QC and sample dilution information, and, barring any inflation at the time of sampling (biofilm disturbance), a result in the tens of thousands indicates a hot spot and the above protocol is recommended.
- Difficult to discern: Results in the range of high hundreds to low thousands of cfu/100mL. As interpreted by GHD for the purpose of these analyses, this category would result with any values of either E. coli or Enterococci counts greater than or equal to 800 cfu/100mL but less than 10,000 cfu/100mL. FIB results in the high hundreds and low thousands do not warrant immediate action, but it is recommended that these be revisited areas after higher priority areas are remediated. It is further recommended that susceptible areas be sampled for source-specific indicators when trying to identify sources and their origins in waters where FIB results are common in this range.
- Low-level exceedances: Mid-hundreds of cfu/100mL. As interpreted by GHD for the purpose of these analyses, this category would result with any values of either E. coli or Enterococci counts greater than or equal to 410 cfu/100mL and less than 800 cfu/100mL. FIB results in the mid-hundreds are not usually associated with persistent contributions of untreated human waste and don't warrant immediate action, however, similar to the above category, it is suggested that a plan to reassess and address these locations after higher priority areas are remediated. It is further recommended that susceptible areas be sampled for source-specific indicators when trying to identify sources and their origins in waters where FIB results are common in this range.

For purposes of this monitoring, concentrations of E. coli of 410 cfu/100mL or greater are considered exceedances and are assigned to an action trigger category.

Concentrations of E. coli in the May 2021 samples ranged from not detected with an MDL of 10 cfu/100 mL at VERONICA SHOEMAKER-4 to 24,196 cfu/100mL at the Seaboard sample location. Concentrations of E. coli in samples collected at the SEABOARD, CFM_CEMETERY, and FORD STREET-2 locations were within "Very Concerning Level" action trigger category. The locations were resampled on an expedited basis and the results of SEABOARD and CFM_CEMETERY were within the "Low-level exceedances" category, while FORD STREET-2 results were within the "Difficult to Discern" category.

Individual concentrations of E. coli in samples collected during the May 2021 event at the BALLARD-1, BALLARD-2, CFM_FSP, and CFM_MANUEL were within the "Difficult to Discern" action trigger category, and the remaining concentrations could be categorized as "Low-level exceedances".

2.2 June 2021 Sample Results

Quarterly samples collected from twenty-three (23) locations within the Billy Creek watershed and nine (9) locations within Manuel Branch during the June event, performed on June 7 and 8, 2021, were analyzed for the presence of E. coli. Based on the results of the May sampling event, follow-up sampling at locations with concentrations of E. coli in the "Difficult to Discern" action trigger category was conducted for the June sample event. Additionally, samples were collected at areas of concern as identified during the Walk the Watershed, and delineation sampling was planned to address a possible point source in the Ballard canal, between Ballard-2 and Ballard-3.

During the June quarterly monitoring event, samples were analyzed for human indicators (HF183 and acetaminophen) from four (4) locations within the Billy Creek watershed and three (3) locations within Manuel Branch. Results for E. coli were assigned to their respective action trigger categories. Concentrations of HF183

were compared to guidance provided in a 2016 FDEP presentation entitled Microbial source tracking: interpretation of qPCR results, which reports that GEU/100 mL detection in the millions can be considered a “high” signal, above ten thousand GEU/100 mL as a “moderate” signal, and less than ten thousand GEU/100 mL can be interpreted as a “low” signal. Reported concentrations of acetaminophen were compared to levels as contained in a study conducted in Lexington, Kentucky that compared the concentration of acetaminophen before and after wastewater treatment, influent concentrations to the wastewater treatment plant (untreated sewage) were in the range of 78 – 122 micrograms per liter (ug/L) while concentrations in effluent (treated sewage) were below 0.1 ug/L.

Concentrations of *E. coli* in the June 2021 samples ranged from not detected with an MDL of 10 cfu/100 mL at Veronica Shoemaker-1 to 3,654 cfu/100mL at Manuel Weir. Individual concentrations of *E. coli* in samples collected during the June 2021 event at CFM Manuel and Manuel Weir were within the “Difficult to Discern Course” category. Samples collected from the CFM_BILLY-3, CFM_FSP, CFM_CEMETERY, FORD STREET-2, ROCKFILL, MANUEL-2, MANUEL PC DOWNSTREAM, and MANUEL PC UPSTREAM were within the “Low-level exceedances” category, and the remaining results were below the concentrations assigned action trigger categories. HF 183 was not detected in the samples collected from CFM_CEMETERY, VERONICA SHOEMAKER-1, CFM BILLY-3, and ROCKFILL. HF183 values were reported as 1,270 GEU per 100mL, 2,580 GEU per 100mL, and 23,100 GEU per 100mL at CFM_MANUEL, MANUEL WEIR and MANUEL-2, respectively. The concentration of HF183 was noted as a “moderate” signal. Concentrations of acetaminophen were below the above-referenced concentration of concentrations in treated effluent of 0.1 ug/L at each of the sample locations.

2.3 July 2021 Sample Results

Samples collected from twenty-three (23) locations within the Billy Creek watershed and six (6) locations within Manuel Branch during the June event, performed on June 7, 2021 and June 8, 2021, were analyzed for the presence of *E. coli*.

Concentrations of *E. coli* in the June 2021 samples ranged from 10 cfu/100 mL at VERONICA SHOEMAKER-1 to 2,143 cfu/100mL at MANUEL WEIR. Individual concentrations of *E. coli* in samples collected during the July 2021 event at CFM-BCP-1-10, FORD STREET-2, CFM MANUEL and MANUEL WEIR were within the “Difficult to Discern Course” category. Samples collected from the CFM_CEMETERY, FORD STREET-3, MANUEL-2, MANUEL PC DOWNSTREAM, and MANUEL PC UPSTREAM were within the “Low-level exceedances” category, and the remaining results were below the concentrations assigned action trigger categories.

2.4 Quarterly Summary

Sample results for May, June, and July indicate concentrations of *E. coli* in Billy Creek generally below the action trigger categories, with concentrations below 410 cfu/100mL. While initial samples collected from SEABOARD, CFM_CEMETERY, and FORD STREET-2 were initially within the “Very Concerning Level” action trigger category, follow-up samples were within the “Low level exceedance” category. Notable decreases in concentration from May to July 2021 were observed at the CFM_BILLY-3, ZAPATO-2, VERONICA SHOEMAKER-2, CFM_FSP, BALLARD-1, and BALLARD-2 locations, and at ROCKFILL between June and July 2021. Notable increases were detected between May and July 2021 at the CFM-BCP1-10 location and between June and July 2021 at the FORD STREET-2 location. Analysis for human indicators HF183 were non-detect, and concentrations of acetaminophen were either non-detect or were below concentrations of concern.

Concentrations of *E. coli* in samples collected at CFM_MANUEL have remained in the “Difficult to Discern” action trigger category in May, June, and July 2021, and concentrations of *E. coli* at MANUEL WEIR were

within the “Difficult to Discern” category in June and July 2021. Following the April 2021 sample event, a significant decrease in the concentration of E. coli was observed at the MANUEL-2 location; however, a slight increasing trend is noted from May 2021 through July 2021. A “moderate” signal was identified in the concentration of HF183 at MANUEL-2, and “low” signals were noted at the CFM_MANUEL and MANUEL WEIR locations. Concentrations of acetaminophen were either non-detect or were below concentrations of concern.

3. Quarterly Reduction Strategy Actions

Based on a review of historical data, internal and stakeholder-involved MOT and WTW events, quarterly MST sampling, and monthly E. coli sampling, areas of concern were assigned priority categories for follow-up actions. A detailed list of high (RED) priority areas and actions items completed during Quarter 2 are listed below:

ID	Type	Note	Priority	Identified Action Item	Entity Performing Action Item	Planned Completion Date
3	Sewer	Clay sewer lines old infrastructure	RED	Sanitary Sewer Master Plan	City	TBD
66	Trash	Dumpster	RED	Contact Code Enforcement and DBPR	GHD	Code Enforcement called on 6/28 and reported that they visited the site the week of 6/21. No piles of trash were seen on the pavement and the case was closed on 6/29. Follow-up observations to be made in August 2021
67	Industrial	Concrete wastewater illicit discharge	RED	Contact FDEP South District	GHD	Completed on June 8, 2021. Follow-up observations to be made in August 2021
73	Industrial	White film in water (wastewater)	RED	Follow-up sampling	GHD	Conducted in June and July 2021
85	Stormwater	Car wash seen in mobile home park. most likely dumping wash water on ground	RED	Contact Lee County and Code Enforcement	GHD	FDOH staff observed conditions on May 26, 2021. Lee County observed conditions in June 2021. Follow-up observations to be made in August 2021
86	Stormwater	Wet ditch seen	RED	Observed to be associated with ID 86. See above action item.	GHD	Completed in June 2021. Follow-up observations to be made in August 2021
87	Stormwater	Wet spot seen	RED	Observed to be associated with ID 86. See above action item.	GHD	Completed in June 2021. Follow-up observations to be made in August 2021
92	OSTDS, Animals	LAZY Js TRAILER PARK, known or being rowdy, sewage on ground, cats, duck poop complaints at clubhouse, horse in pasture. find out where storage goes?	RED	Coordinate with FDOH and Lee County	GHD	FDOH staff observed conditions on May 26, 2021. Lee County observed conditions in June 2021. Follow-up observations to be made in August 2021
94	Trash	Large trash pile on pavement, trash in ditch next to road	RED	Contact DBPR	GHD	Completed in June 2021. Follow-up observations to be made in August 2021
98	Commercial	Odorous dumpster. Ice with fish waste seen with flies around. fish scales and bones on ground. Boxes need to be in dumpster, close dumpster lid.	RED	Contact Code Enforcement	GHD	Code Enforcement visited the site on 6/9 and 6/10 and noted that the boxes had been cleaned, the dumpster closed and ice/debris removed from the area. The case was closed on 6/11. Follow-up observations to be made in August 2021
107	Sewer	Pipe crossing canal	RED	Pipe cleaned and videoed. Contact Code Enforcement	City	Code Enforcement contacted in June 2021. As of July 30, 2021 Code Enforcement is working with the property owner to have the pipe lined/replaced. Follow-up to be completed August 2021
113	Trash	Trash and dumpster overflow	RED	Contact DBPR	GHD	Completed on June 8, 2021. Follow-up observations to be made in August 2021
120	Sewer	Signs of previous leaks from a private sewage line that connects to CFM across the canal.	RED	Follow-up sampling	GHD	Conducted in June and July 2021
121	Sewer	Smell from canal	RED	Follow-up sampling	GHD	Conducted in June and July 2021
135	Stormwater	Consistent bubbles in the bottom (downstream) of the photo. suggestive of material in water	RED	Follow-up sampling	GHD	Conducted in June and July 2021

As discussed in the recently submitted Pollutant Reduction Plan, GHD will be conducting regular reconnaissance of the watershed utilizing a pre-prepared checklist of visual inspection items and complete follow-up action items by coordinating with the appropriate regulatory or government agency for corrective action (i.e., Code Enforcement, Department of Business and Professional Regulation, Department of Human and Veterans Affairs, Lee County, etc.), as identified in the table below, beginning in Quarter 3. Additional status updates, as listed in the table below, will also be provided in the next quarterly summary.

Potential Source	Actions	Timing	Entity Performing Action	Follow-up Actions	Reporting
Sanitary Sewer Lines	Cleaning	As needed	City	NA	Quarterly updates
	Maintenance	As needed	City	NA	Quarterly updates
	Repairs	As needed	City	NA	Quarterly updates
	Utility Master Plan	Planned 2022	City	NA	December 2022
	Improvements	As planned	City	NA	Quarterly updates
City Lift Stations	Inspections	2-3 times per week	City	Repairs as needed	Quarterly updates
Private Lift Stations	Visual inspections	Monthly	GHD	Coordinate with private entity	Quarterly updates
OSTDS	Visual inspections	Monthly	GHD	Coordinate with FDOH for follow-up inspection	Quarterly updates
Private Property Illicit Connections	Visual inspections	Monthly	GHD	Coordinate with Code Enforcement for follow-up inspection	Quarterly updates
Commercial/Industrial Waste	Visual inspections	Monthly	GHD	Coordinate with Code Enforcement for follow-up inspection	Quarterly updates
Trash	Inventory of potential trash disposal areas	Fall 2021	GHD	NA	Winter 2021
	Installation of trash disposal containers	2022	City	NA	2022
	Trash clean-up events	Quarterly	City	NA	Quarterly updates
Pet Waste	Inventory of high traffic areas	Fall 2021	GHD	NA	Winter 2021
	Installation of pet waste stations	2022	City	NA	2022
Homeless Activity	Visual inspections	Monthly	GHD	Coordinate with Lee County Department of Human and Veteran Services	Quarterly updates
Natural Sources	Visual inspections	Monthly	GHD	NA	Quarterly updates
Stormwater	Stormwater Master Plan	2022	City	NA	2022
	Billy Creek dredging and restoration project	Late 2021	City	NA	2022
	City-wide armoring of canals	2022	City	NA	2022

4. Conclusions and Next Steps

Based on the laboratory analytical results of the quarterly sampling events, the presence of E. Coli in Billy Creek appear to generally be trending downward. Continued monitoring will be performed at the sample locations to further identify trends. If concentrations remain elevated at the CFM-BCP4-10 and FORD STREET-2 locations during the August 2021 sampling event, delineation sampling will be performed to assist in identification of potential sources.

Concentrations within Manuel Branch remain elevated at the CFM_MANUEL and MANUEL WEIR locations. Based on a review of the data, it appears that a potential point source may be located somewhere downstream of MANUEL-2 and upstream of MANUEL WEIR. Additional delineation sampling to assist in identification of the potential source will be conducted in August 2021. Additionally, based on the “moderate” signal of HF183 identified at the MANUEL-2 location and a generally increasing trend in E. coli at the location for the quarter, additional delineation sampling will be performed upstream of the sample location to assist in identification of a potential source.

As discussed in the Quarter 1 summary, a sanitary sewer line trends parallel to the north bank of Manuel Branch between the Manuel-2 and Manuel-3 sample locations. As a part of the City Master Plan, we understand the portion of the sewer line situated alongside the north bank of Manuel Branch, between Evans and Central is slated for improvements. The City will expedite construction of this project to resolve the potential problems associated with the bacteria. An update timeframe for completion will be provided when available.

In addition, a detailed specific master spreadsheet (and associated location maps) are being prepared that will include the following specific types of information including but not limited to:

- Listing of each individual FIB source of potential contamination (e.g., specific sources of potential microbial contamination encountered in the WTW exercise such as specific pet and wildlife scat observations, sewer overflows, illicit connections, etc). Aside from listing each individual incident, additional table column headers (for this and all the companion bulleted items listed here) will include GIS location, current status, activities completed, planned activities (including dates to complete and name of responsible person or agency), date and nature of resolution.
- Complete list of inspection activities (eg., lift station inspections (private and public), grease trap inspection, homeless encampments, etc.) including person or agency responsible, outcome of previous inspections and date of upcoming ones along with results/follow up action items).
- Outreach Programs such as notices to residences living on canals, an educational campaign, animal waste control, etc. Included in the spreadsheet will be updates on implementation, responses, estimation of effectiveness and required measures for ongoing improvement.
- Summary of specific OSDTS activities.
- Sanitary sewer repairs/replacements, interceptor clean out schedules, etc., including dates and nature of completed and planned improvements.
- Status of FIB surface water sampling activities.

If you require additional information or clarification, please feel free to contact Lori Coolidge at (813) 476-9940 or David Hempleman at (239) 215-3909.

Regards

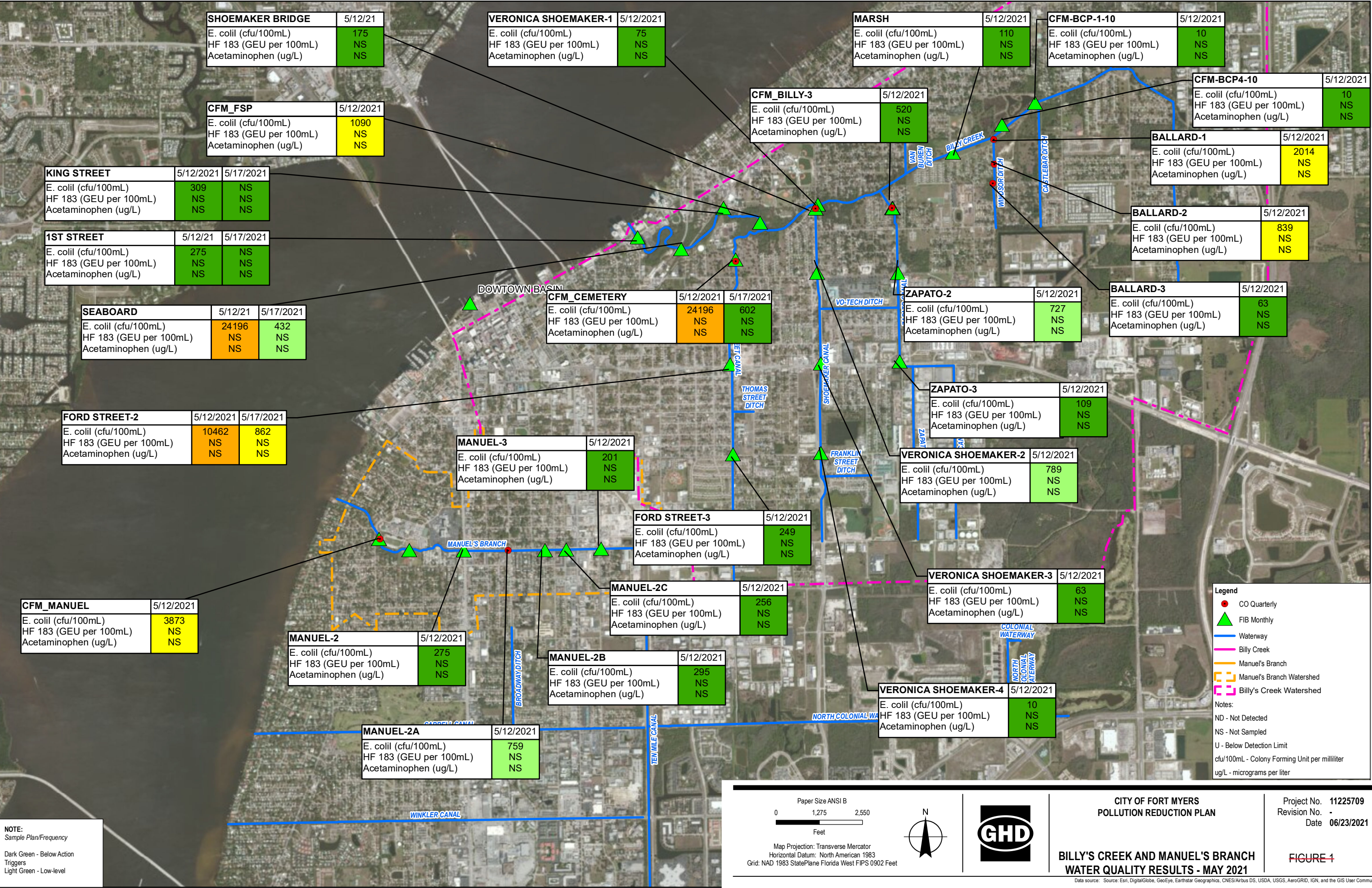
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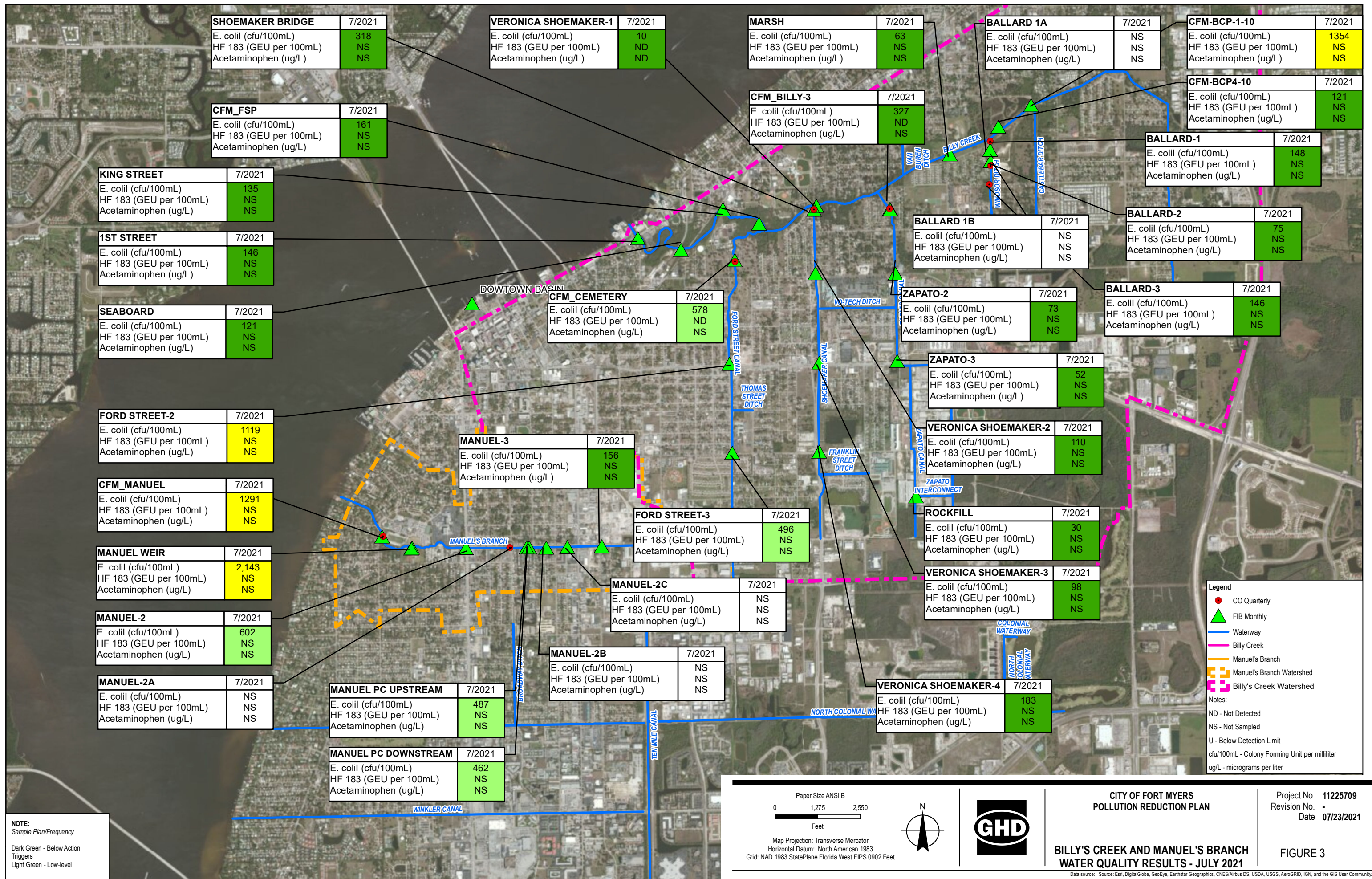
Tables

Table 1 Quarter 2 Sample Results

Sample Location	May 2021 E. coli cfu/100mL	Follow-up May 2021 E. coli cfu/100mL	June 2021 E. coli cfu/100mL	June 2021 HF 183 GEU/100mL	June 2021 Acetaminophen ug/L	July 2021 E. coli cfu/100mL
1ST STREET	275	NS	109	NS	NS	146
SEABOARD	24196	432	231	NS	NS	121
KING STREET	309	NS	86	NS	NS	135
SHOEMAKER BRIDGE	175	NS	279	NS	NS	318
MARSH	110	NS	NS	NS	NS	63
CFM-BCP4-10	10	NS	20	NS	NS	121
CFM-BCP1-10	10	NS	156	NS	NS	1354
CFM BILLY-3	520	NS	529	ND	0.007	327
ZAPATO-2	727	NS	135	NS	NS	73
ZAPATO-3	109	NS	160	NS	NS	52
ZAPATO-4	NS	NS	NS	NS	NS	NS
VERONICA SHOEMAKER-1	75	NS	41	ND	ND (<0.005)	10
VERONICA SHOEMAKER-2	789	NS	408	NS	NS	110
VERONICA SHOEMAKER-3	63	NS	318	NS	NS	98
VERONICA SHOEMAKER-4	10	NS	110	NS	NS	183
CFM FSP	1090	NS	487	NS	NS	161
CFM CEMETERY	24196	602	697	ND	0.01	578
FORD STREET-2	10462	862	663	NS	NS	1119
FORD STREET-3	249	NS	295	NS	NS	496
RECLAIM WATER	NS	NS	NS	NS	NS	10U
BALLARD-1	2014	NS	231	NS	NS	148
BALLARD-1A	NS	NS	323	NS	NS	NS
BALLARD-1B	NS	NS	359	NS	NS	NS
BALLARD-2	839	NS	393	NS	NS	75
BALLARD-3	63	NS	323	NS	NS	146
ROCKFILL	NS	NS	563	ND	0.025	30
CFM MANUEL	3873	NS	882	1,270	0.045	1291
MANUEL WEIR	NS	NS	3654	2,580	0.093	2143
MANUEL-2	275	NS	452	23,100	0.005	602
MANUEL-2A	759	NS	446	NS	NS	NS
MANUEL PC DOWNSTREAM	NS	NS	650	NS	NS	462
MANUEL PC UPSTREAM	NS	NS	703	NS	NS	487
MANUEL-2B	295	NS	789	NS	NS	NS
MANUEL-2C	256	NS	717	NS	NS	NS
MANUEL-3	201	NS	63	NS	NS	156

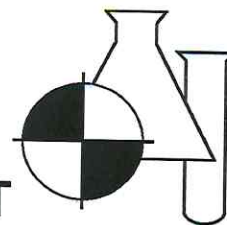
Figures





Attachment

BENCHMARK EA SOUTH



NELAC Certification # E85086

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : S 21050292

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : CITY OF FORT MYERS FIB
Date Received : 05/12/2021
Time Received : 1415

Submission: S 21050292

Sample Number: 001
Sample Date: 05/12/2021
Sample Time: 1150
Sample Description: Ballard-1
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	2014	#/100ML	10	10	SM9223B	05/12/2021	15:32	KH

Submission: S 21050292

Sample Number: 002
Sample Date: 05/12/2021
Sample Time: 1200
Sample Description: Ballard-2
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	839	#/100ML	10	10	SM9223B	05/12/2021	15:32	KH

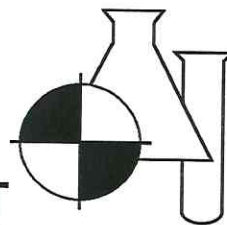
Submission: S 21050292

Sample Number: 003
Sample Date: 05/12/2021
Sample Time: 1225
Sample Description: Ballard-3
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	63	#/100ML	10	10	SM9223B	05/12/2021	15:32	KH

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission: S 21050292

Sample Number: 004

Sample Description: Marsh

Sample Date: 05/12/2021

Sample Method: Grab

Sample Time: 1215

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	110	#/100ML	10	10	SM9223B	05/12/2021	15:32	KH

Melinda Merchant

05/17/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant/ Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

NOTES:

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

For questions and comments regarding these results, please contact Melinda Merchant at (941) 625-3137

These results relate only to the samples included in this report.

GHD Services Inc and its subsidiaries

1711 Twelfth Street East
Palmetto, FL 34221

(941) 723-9986

(941) 723-6061 fax

www.benchmarkkea.com

Checked at Benchmark EA South E85086
With Temperature Gun ID #7

2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901

10

Report ASAP verbal (813-373-9221)

FIG monthly

Fax: 239-936-0819
Reports: Christina J

110 116773
Berghold (Christina Berghold@cshd.com)

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

Andrew Wyatt (Andrew.Wyatt@ohd.com)

mm 5/13/21

Chain of Custody Form: ~~CFR~~ ~~CFB~~ City of Fort Myers ~~CFB~~

Project Number: 1135752
45 per Au 5/3/21 mm

Laboratory Submission #:

521050792

page 3 of 3

Station ID	Sample Type ¹	Sample Matrix ²	E. coli (SM9223B-QT)				Laboratory Submission #
			NaThio				
			1 x 100mL Sterile Plastic				
Ballard-1	Grab	SW	Date/Time:	5/12/21	11:50		1
Ballard-2	Grab	SW	Date/Time:		12:00		2
Ballard-3	Grab	SW	Date/Time:		12:25		3
Marsn	Grab	SW	Date/Time:		12:15		4
	Grab	SW	Date/Time:				
	Grab	SW	Date/Time:				
	Grab	SW	Date/Time:				
	Grab	SW	Date/Time:				

Instructions:

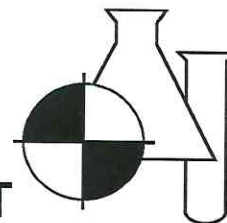
- Each bottle has a label identifying sample ID, premeasured preservatives contained in the bottle, sample type, client ID, and parameters for analysis.
- The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
- All bottles containing preservative may be stored with appropriate sample prior to collection.
- Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).
- The client is responsible for documentation of the sampling event. Please note special sampling events on the sample outside form.

*Sample Type¹ is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
*Sample Matrix² is used to indicate whether the sample is being dispensed to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDXANT), or sludge (SLDG).
Under "Preservative," list any preservatives that were added to the sample container.

Collector: Andrew Wyatt	Date & Time: 5/12/21 1415	Received By: M. Michaels	Date & Time: 5/12/21 1415
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:

Laboratory Sample Acceptability: pH < 2 : D
BEAS Temperature: 21.7°C
BEA Temperature:

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission Number : S 21050406

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : CITY OF FORT MYERS FIB
Date Received : 05/13/2021
Time Received : 1400

Submission: S 21050406

Sample Number: 001 **Sample Description:** Manuel-2
Sample Date: 05/13/2021 **Sample Method:** Grab
Sample Time: 0845

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	275	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 002 **Sample Description:** Manuel-2A
Sample Date: 05/13/2021 **Sample Method:** Grab
Sample Time: 0855

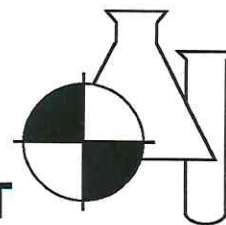
Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	759	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 003 **Sample Description:** Manuel-2B
Sample Date: 05/13/2021 **Sample Method:** Grab
Sample Time: 0905

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	295	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission: S 21050406

Sample Number: 004

Sample Description: Manuel-2C

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 0920

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	256	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 005

Sample Description: 1st Street

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 0950

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	275	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 006

Sample Description: Seaboard

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1005

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	24196	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 007

Sample Description: King Street

Sample Date: 05/13/2021

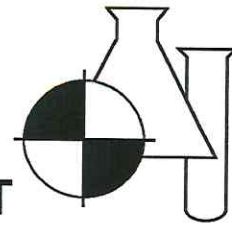
Sample Method: Grab

Sample Time: 1020

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	309	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission: S 21050406

Sample Number: 008

Sample Date: 05/13/2021

Sample Time: 1035

Sample Description: Shoemaker Bridge

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	175	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 009

Sample Date: 05/13/2021

Sample Time: 1100

Sample Description: Veronica Shoemaker 1

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	75	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 010

Sample Date: 05/13/2021

Sample Time: 1050

Sample Description: Veronica Shoemaker 2

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	789	#/100ML	10	10	SM9223B	05/13/2021	14:33	LG

Submission: S 21050406

Sample Number: 011

Sample Date: 05/13/2021

Sample Time: 1110

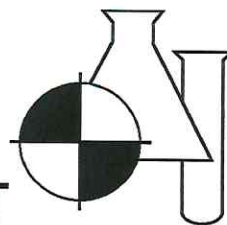
Sample Description: Veronica Shoemaker 3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	63	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission: S 21050406

Sample Number: 012

Sample Description: Veronica Shoemaker 4

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1130

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	10	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

Submission: S 21050406

Sample Number: 013

Sample Description: Ford Street 3

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1140

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	249	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

Submission: S 21050406

Sample Number: 014

Sample Description: Ford Street 2

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1155

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	10462	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

Submission: S 21050406

Sample Number: 015

Sample Description: Zapato-3

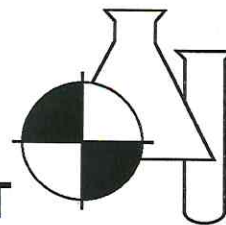
Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1210

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	109	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission: S 21050406

Sample Number: 016

Sample Description: Zapato-2

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 1220

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	727	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

Submission: S 21050406

Sample Number: 017

Sample Description: Manuel-3

Sample Date: 05/13/2021

Sample Method: Grab

Sample Time: 0935

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	201	#/100ML	10	10	SM9223B	05/13/2021	15:04	LG

Melinda Merchant

05/17/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant / Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

NOTES:

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

For questions and comments regarding these results, please contact Melinda Merchant at (941) 625-3137

These results relate only to the samples included in this report.

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

standard report

21050406

PAGE 5 OF 8

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

Client:

GHD Services, Inc. (GSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Christina Berghold (Christina.Berghold@ghd.com)
Andrew Wyatt (Andrew.Wyatt@ghd.com)

Kit Shipped to client via UPS Standard in cooler

Report ~~ASAP~~ ASAP version
(941) 337-3737 (941) 237-3737

FIB Montrose

Page 2 of 8

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

Chain of Custody Form: City of Fort Myers FIB
Project Number: 11135752

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:	1 x 100mL Sterile Plastic	Laboratory Submission #
Manuel - 2	Grab	SW	5/13/21 0845		1
Manuel - 2A	Grab	SW	5/13/21 0855		2
Manuel - 2B	Grab	SW	5/13/21 0905		3
Manuel - 2C	Grab	SW	5/13/21 0920		4
1st Street	Grab	SW	5/13/21 0950		5
Seaboard	Grab	SW	5/13/21 1005		6
King Street	Grab	SW	5/13/21 1020		7
Shoemaker Bridge	Grab	SW	5/13/21 1036		8

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
² "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
³ "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
⁴ Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).
Under "Preservatives," list any preservatives that were added to the sample container.

Instructions:
1. Each bottle has a label identifying sample ID, preservative, preservative confined in, the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sample's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Collector:	Date & Time:	Received By:	Date & Time:
1	5/13/21 1036	2	5/13/21 1440
3		4	
5		6	
7		8	

Laboratory Sample Acceptability: pH < 2.0
BEAS Temperature: 21.5 °C
BEA Temperature:

BEAS Sample Receipt Temp. 21.5 °C

Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

Client:

GHD Services, Inc. (GSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Christina Berghold (Christina.Berghold@ghd.com)
Andrew Wyatt (Andrew.Wyatt@ghd.com)

Kit Shipped to client via UPS Standard in cooler
Report ASAP verified
(813 373-9237)
F113 morning

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

Chain of Custody Form: City of Fort Myers F113
Project Number: 11135752

Laboratory Submission #:

521050406

E. coli (SM9223B-Q7)

NaThio

1 x 100mL Sterile Plastic

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:		Laboratory Submission #
Veronica Shoemaker 1	Grab	SW	5/13/21	1100	9
Veronica Shoemaker 2	Grab	SW		1050	10
Veronica Shoemaker 3	Grab	SW		1110	11
Veronica Shoemaker 4	Grab	SW		1130	12
Ford Street 3	Grab	SW		1140	13
Ford Street 2	Grab	SW		1155	14
Zapato - 3	Grab	SW		1210	15
Zapato - 2	Grab	SW		1220	16

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

² "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMANT), or sludge (SLDG).

³ "Container Type" is used to indicate whether the container is plastic (P) or glass (G).

⁴ Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).

Under "Preservative", list any preservatives that were added to the sample container.

Interference: Each bottle has a label identifying sample ID, preservative, preservative contained in the bottle, sample type, client ID, and parameters for analysis.

2 The following information should be added to each bottle label after collection with appropriate sample prior to collection.

3 All bottles not containing preservative may be rinsed with appropriate sample prior to collection.

4 The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1 Collector: <u>[Signature]</u>	Date & Time: <u>5/13/21 1400</u>	2 Received By: <u>Melinda Merchant</u>	Date & Time: <u>5/13/21 1400</u>
3 Relinquished By:	Date & Time:	4 Received By:	Date & Time:
5 Relinquished By:	Date & Time:	6 Received By:	Date & Time:
7 Relinquished By:	Date & Time:	8 Received By:	Date & Time:

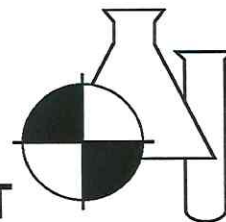
Laboratory Sample Acceptability: pH < 2: ☐
BEAS Temperature: 2.5°C
BEA Temperature:

8 to 14/15
Page 8

BEAS Sample Receipt Temp. 21.5 °C

Checked at Benchmark EA South E85086
With Temperature Gun ID #7

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Submission Number : S 21050473

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : CITY OF FORT MYERS FIB
Date Received : 05/17/2021
Time Received : 1335

Submission: S 21050473

Sample Number: 001 **Sample Description:** Seaboard
Sample Date: 05/17/2021 **Sample Method:** Grab
Sample Time: 1050

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	432	#/100ML	10	10	SM9223B	05/17/2021	14:32	MM

Submission: S 21050473

Sample Number: 002 **Sample Description:** CFM Cemetery
Sample Date: 05/17/2021 **Sample Method:** Grab
Sample Time: 1110

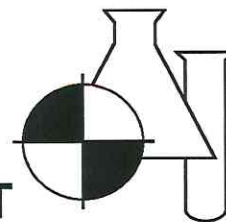
Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	602	#/100ML	10	10	SM9223B	05/17/2021	14:32	MM

Submission: S 21050473

Sample Number: 003 **Sample Description:** Ford Street 2
Sample Date: 05/17/2021 **Sample Method:** Grab
Sample Time: 1130

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	862	#/100ML	10	10	SM9223B	05/17/2021	14:32	MM

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT THESE RESULTS MEET NELAC STANDARDS

NELAC Certification # E85086

Melinda Merchant

05/20/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant / Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

NOTES:

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL

For questions and comments regarding these results, please contact Melinda Merchant at (941) 625-3137

These results relate only to the samples included in this report.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

BEAS Sample Receipt Temp. 41.1°C
Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Client:

GHD Services, Inc. (HSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Christina Berghold (Christina.Berghold@ghd.com)
Andrew Wyatt (Andrew.Wyatt@ghd.com)

Kit Shipped to client via UPS Standard in cooler

Results ASAP to email
@david.hempleman@ghd.com

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

Chain of Custody Form: City of Fort Myers #113

Project Number: 1135752

Laboratory Submission #:

591050473

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:	1 x 100mL Sterile Plastic	Laboratory Submission #
Seaboard	Grab	SW	5/17/21 1050		1
CFM CEMETERY	Grab	SW	1110		2
FORD STREET 2	Grab	SW	1130		3
	Grab	SW	Date/Time:		
	Grab	SW	Date/Time:		
	Grab	SW	Date/Time:		
	Grab	SW	Date/Time:		
	Grab	SW	Date/Time:		
	Grab	SW	Date/Time:		

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being subjected to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Sample Type" is used to indicate whether the sample is being subjected to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
4. "Sample Matrix" is used to indicate whether the sample is being subjected to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).

Laboratory Sample Acceptability: pH < 2 : D
BEAS Temperature: 41.1°C
BEA Temperature:

1	Collector:	Date & Time: 5/17/21 1335	2	Received By: M. Murchant	Date & Time: 5/17/21 1335
3	Relinquished By:	Date & Time:	4	Received By:	Date & Time:
5	Relinquished By:	Date & Time:	6	Received By:	Date & Time:
7	Relinquished By:	Date & Time:	8	Received By:	Date & Time:

ANALYTICAL REPORT

Eurofins TestAmerica, Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

Laboratory Job ID: 660-111186-1

Client Project/Site: Acetaminophen in Surface Water

For:

GHD Services Inc.-HSA
3380 Fairlane Farms Road, Suite 12
Wellington, Florida 33414

Attn: Mr. Tom Emenhiser



Authorized for release by:
6/29/2021 3:58:07 PM

Matt Jones, Project Manager I
(850)284-4486
matthew.jones@eurofinset.com

LINKS

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results through

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Detection Summary	5
Method Summary	6
Subcontract Data	7
Chain of Custody	20
Receipt Checklists	21

Sample Summary

Client: GHD Services Inc.-HSA
Project/Site: Acetaminophen in Surface Water

Job ID: 660-111186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
660-111186-1	CFM Billy3	Water	06/07/21 10:45	06/09/21 09:30	
660-111186-2	Veronica Shoemaker - 1	Water	06/08/21 10:45	06/09/21 09:30	
660-111186-3	CFM Cementery	Water	06/07/21 10:15	06/09/21 09:30	
660-111186-4	CFM Manuel	Water	06/07/21 00:05	06/09/21 09:30	
660-111186-5	Manuel Weir	Water	06/08/21 08:20	06/09/21 09:30	
660-111186-6	Manuel 2	Water	06/08/21 08:50	06/09/21 09:30	
660-111186-7	Rockfill	Water	06/08/21 10:15	06/09/21 09:30	
660-111186-8	Dup-1	Water	06/07/21 12:00	06/09/21 09:30	

Definitions/Glossary

Client: GHD Services Inc.-HSA
Project/Site: Acetaminophen in Surface Water

Job ID: 660-111186-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Detection Summary

Client: GHD Services Inc.-HSA
Project/Site: Acetaminophen in Surface Water

Job ID: 660-111186-1

Client Sample ID: CFM Billy3	Lab Sample ID: 660-111186-1
-------------------------------------	------------------------------------

☐ No Detections.

Client Sample ID: Veronica Shoemaker - 1	Lab Sample ID: 660-111186-2
---	------------------------------------

☐ No Detections.

Client Sample ID: CFM Cementery	Lab Sample ID: 660-111186-3
--	------------------------------------

☐ No Detections.

Client Sample ID: CFM Manuel	Lab Sample ID: 660-111186-4
-------------------------------------	------------------------------------

☐ No Detections.

Client Sample ID: Manuel Weir	Lab Sample ID: 660-111186-5
--------------------------------------	------------------------------------

☐ No Detections.

Client Sample ID: Manuel 2	Lab Sample ID: 660-111186-6
-----------------------------------	------------------------------------

☐ No Detections.

Client Sample ID: Rockfill	Lab Sample ID: 660-111186-7
-----------------------------------	------------------------------------

☐ No Detections.

Client Sample ID: Dup-1	Lab Sample ID: 660-111186-8
--------------------------------	------------------------------------

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Tampa

Method Summary

Client: GHD Services Inc.-HSA
Project/Site: Acetaminophen in Surface Water

Job ID: 660-111186-1

Method	Method Description	Protocol	Laboratory
Subcontract	L220 - Acetaminophen	None	Eurofin SB

Protocol References:

None = None

Laboratory References:

Eurofin SB = Eurofins Eaton Analytical, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

NELAC NARRATIVE PAGE

Client: TestAmerica

Report #: 520764NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Jaclyn Gatchell

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

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		06/29/2021
Authorized Signature	Title	Date

Page 1 of 1



Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: TestAmerica
Attn: Matt Jones
6712 Benjamin Rd
Suite 100
Tampa, FL 33634

Report: 520764
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4926011	660-111186-1	L220	06/07/21 10:45	Client	06/10/21 09:00
4926012	660-111186-2	L220	06/08/21 10:45	Client	06/10/21 09:00
4926013	660-111186-3	L220	06/07/21 10:15	Client	06/10/21 09:00
4926014	660-111186-4	L220	06/07/21 00:05	Client	06/10/21 09:00
4926015	660-111186-5	L220	06/08/21 08:20	Client	06/10/21 09:00
4926016	660-111186-6	L220	06/08/21 08:50	Client	06/10/21 09:00
4926017	660-111186-7	L220	06/08/21 10:15	Client	06/10/21 09:00
4926018	660-111186-8	L220	06/07/21 00:00	Client	06/10/21 09:00

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jaclyn Gatchell at (574) 233-4777.

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Jaclyn Gatchell asm

Authorized Signature

Title

06/29/2021

Date

Client Name: TestAmerica

Report #: 520764

Client Name: TestAmerica

Report #: 520764

Sampling Point: 660-111186-1

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.007	ug/L	06/17/21 07:36	06/24/21 02:02	4926011

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-2

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	< 0.005	ug/L	06/17/21 07:36	06/24/21 02:43	4926012

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-3

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.010	ug/L	06/17/21 07:36	06/24/21 01:21	4926013

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-4

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.045	ug/L	06/17/21 07:36	06/23/21 23:59	4926014

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-5

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.093	ug/L	06/17/21 07:36	06/24/21 03:23	4926015

\$ The state of origin does not offer certification for this parameter.

Client Name: TestAmerica

Report #: 520764

Sampling Point: 660-111186-6

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.005	ug/L	06/17/21 07:36	06/24/21 04:04	4926016

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-7

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.025	ug/L	06/17/21 07:36	06/24/21 04:45	4926017

\$ The state of origin does not offer certification for this parameter.

Sampling Point: 660-111186-8

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
103-90-2	Acetaminophen \$	L220	---	0.005	0.010	ug/L	06/17/21 07:36	06/24/21 00:40	4926018

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: $(\text{MS or MSD value} - \text{Sample value}) \times 100 / \text{spike target} / \text{dilution factor} = \text{Recovery \%}$

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Eurofins TestAmerica, Tampa

6712 Benjamin Road Suite 100
Tampa, FL 33634

Phone: 813-885-7427 Fax: 813-885-7049

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:	Jones, Matt	Carrier Tracking No(s):
Client Contact:		Phone:	E-Mail:	State of Origin:
Shipping/Receiving		matthew.jones@eurofinset.com Florida		
Company:		Accreditations Required (See note):		
Eurofins Eaton Analytical				

Address:		Due Date Requested:	6/23/2021
City:		TAT Requested (days):	
State, Zip:			
IN, 46617			
Phone:		PO #:	
Email:		WO #:	
Project Name:		Project #:	66016303
Acetaminophen in Surface Water		SSOW#:	
Site:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SUB (L220 - Acetaminophen)		Analysis Requested									
					Preservation Code:															
CFM Billy3 (660-111186-1)	6/7/21	10:45 Eastern		Water					X											
Veronica Shoemaker - 1 (660-111186-2)	6/8/21	10:45 Eastern		Water					X											
CFM Cementery (660-111186-3)	6/7/21	10:15 Eastern		Water					X											
CFM Manuel (660-111186-4)	6/7/21	00:05 Eastern		Water					X											
Manuel Weir (660-111186-5)	6/8/21	08:20 Eastern		Water					X											
Manuel 2 (660-111186-6)	6/8/21	08:50 Eastern		Water					X											
Rockfill (660-111186-7)	6/8/21	10:15 Eastern		Water					X											
Dup-1 (660-111186-8)	6/7/21	12:00 Eastern		Water					X											

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under the maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are re	
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Date/Time: 6/9/21 17:00		Company: B7A	
Date: 6/9/21		Time: 17:00	

Eurofins Eaton Analytical

Run Log

Run ID: 290865 Method: L220

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis D
ICL	4932714		OS	DQ	06/23/2021 1:
ICS	4932715		OS	DQ	06/23/2021 1:
ICS	4932716		OS	DQ	06/23/2021 1:
ICS	4932717		OS	DQ	06/23/2021 1:
ICS	4932718		OS	DQ	06/23/2021 1:
ICS	4932719		OS	DQ	06/23/2021 1:
ICS	4932720		OS	DQ	06/23/2021 1:
LFB	4932709		RW	DQ	06/23/2021 2
LMB	4932679		RW	DQ	06/23/2021 2
FS	4926014	660-111186-4	DW	DQ	06/23/2021 2:
FS	4926018	660-111186-8	DW	DQ	06/24/2021 0:
FS	4926013	660-111186-3	DW	DQ	06/24/2021 0
FS	4926011	660-111186-1	DW	DQ	06/24/2021 0:
FS	4926012	660-111186-2	DW	DQ	06/24/2021 0:
FS	4926015	660-111186-5	DW	DQ	06/24/2021 0:
FS	4926016	660-111186-6	DW	DQ	06/24/2021 0:
FS	4926017	660-111186-7	DW	DQ	06/24/2021 0:
CCC	4932721		OS	DQ	06/24/2021 0:

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit
ICL	IS-Atrazine-d5	L220	N/A			103419	100361	ug/L	103	50 - 150	10000
ICL	SS-Acetaminophen-d4	L220	N/A			0.0943	0.1	ug/L	94	50 - 150	10000
ICL	Acetaminophen	L220	N/A			0.0048	0.005	ug/L	97	50 - 150	10000
ICS	IS-Atrazine-d5	L220	N/A			99828	100361	ug/L	99	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.1012	0.1	ug/L	101	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.0099	0.01	ug/L	99	70 - 130	10000
ICS	IS-Atrazine-d5	L220	N/A			103377	100361	ug/L	103	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.0975	0.1	ug/L	97	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.0253	0.025	ug/L	101	70 - 130	10000
ICS	IS-Atrazine-d5	L220	N/A			94873	100361	ug/L	95	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.1048	0.1	ug/L	105	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.0492	0.05	ug/L	98	70 - 130	10000
ICS	IS-Atrazine-d5	L220	N/A			103328	100361	ug/L	103	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.0985	0.1	ug/L	99	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.1012	0.1	ug/L	101	70 - 130	10000
ICS	IS-Atrazine-d5	L220	N/A			100827	100361	ug/L	100	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.1003	0.1	ug/L	100	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.2493	0.25	ug/L	100	70 - 130	10000
ICS	IS-Atrazine-d5	L220	N/A			96882	100361	ug/L	97	50 - 150	10000
ICS	SS-Acetaminophen-d4	L220	N/A			0.1035	0.1	ug/L	103	50 - 150	10000
ICS	Acetaminophen	L220	N/A			0.5002	0.5	ug/L	100	70 - 130	10000
LFB	IS-Atrazine-d5	L220	N/A			98157	100361	ug/L	98	50 - 150	10000
LFB	SS-Acetaminophen-d4	L220	N/A			0.0563	0.1	ug/L	56	5 - 150	10000
LFB	Acetaminophen	L220	0.005			0.0977	0.1	ug/L	98	70 - 130	10000
LMB	IS-Atrazine-d5	L220	N/A			101784	100361	ug/L	101	50 - 150	10000
LMB	SS-Acetaminophen-d4	L220	N/A			0.0573	0.1	ug/L	58	5 - 150	10000
LMB	Acetaminophen	L220	0.005		<	0.005		ug/L			10000
FS	IS-Atrazine-d5	L220	N/A	660-111186-4		93690	100361	ug/L	93	50 - 150	10000
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-4		0.0626	0.1	ug/L	64	5 - 150	10000
FS	Acetaminophen	L220	0.005	660-111186-4		0.045		ug/L			10000
FS	IS-Atrazine-d5	L220	N/A	660-111186-8		82888	100361	ug/L	82	50 - 150	10000
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-8		0.0377	0.1	ug/L	38	5 - 150	10000
FS	Acetaminophen	L220	0.005	660-111186-8		0.010		ug/L			10000
FS	IS-Atrazine-d5	L220	N/A	660-111186-3		90873	100361	ug/L	91	50 - 150	10000
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-3		0.0317	0.1	ug/L			10000
FS	Acetaminophen	L220	0.005	660-111186-3		0.010		ug/L			10000

QC Summary Report (cont.)											
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-2		0.0451	0.1	ug/L	46	5 - 150	---
FS	Acetaminophen	L220	0.005	660-111186-2	<	0.005		ug/L	---	---	---
FS	IS-Atrazine-d5	L220	N/A	660-111186-5		90095	100361	ug/L	90	50 - 150	---
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-5		0.0381	0.1	ug/L	39	5 - 150	---
FS	Acetaminophen	L220	0.005	660-111186-5		0.093		ug/L	---	---	---
FS	IS-Atrazine-d5	L220	N/A	660-111186-6		84170	100361	ug/L	84	50 - 150	---
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-6		0.0578	0.1	ug/L	58	5 - 150	---
FS	Acetaminophen	L220	0.005	660-111186-6		0.005		ug/L	---	---	---
FS	IS-Atrazine-d5	L220	N/A	660-111186-7		81289	100361	ug/L	81	50 - 150	---
FS	SS-Acetaminophen-d4	L220	N/A	660-111186-7		0.0526	0.1	ug/L	53	5 - 150	---
FS	Acetaminophen	L220	0.005	660-111186-7		0.025		ug/L	---	---	---
CCC	IS-Atrazine-d5	L220	N/A	---		90792	100361	ug/L	90	50 - 150	---
CCC	SS-Acetaminophen-d4	L220	N/A	---		0.0897	0.1	ug/L	90	50 - 150	---
CCC	Acetaminophen	L220	0.005	---		0.0819	0.1	ug/L	82	70 - 130	---

Sample Type Key		
<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u> <u>Sample Type</u>
CCC	Continuing Calibration Check	
FS	Field Sample	
ICL	Initial Calibration Low	
ICS	Initial Calibration Sample	
LFB	Laboratory Fortified Blank	
LMB	Laboratory Method Blank	

END OF REPORT

Chain of Custody Record

Client Information		Sampler: Andrew Wyatt		Lab PM: Jones, Matt		Carrier Tracking No(s): 660-99633-31901.1		COC No: 660-99633-31901.1	
Client Contact: Andrew Wyatt		Phone: 813-373-9237		E-Mail: matthew.jones@eurofinset.com		State of Origin: Florida		Page: Page 1 of 1	
Company: GHD Services Inc.-HSA		PWSID:		Analysis Requested		Job #:			
Address: 2675 Winkler Ave #180		Due Date Requested:		TAT Requested (days):		Compliance Project: ☐ Yes ☒ No		Preservation Codes:	
City: Fort Myers		PO #:		Purchase Order not required		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: andrew.wyatt@ghd.com		Eurofins:(66016303)		Project #:		GHD:(11135752)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Acetaminophen in Surface Water		Site:		City of Fort Myers		SSOW#:			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	
CFM Billy3		6/7/21		1045		G		W	
Veronica stoemaker - 1		6/8/21		1045		G		W	
CFM Cemetery		6/7/21		1015		G		W	
CFM Marvel		6/7/21		0905		G		W	
Marvel Weir		6/8/21		0820		G		W	
Marvel 2		6/8/21		0850		G		W	
Rockfill		6/8/21		1015		G		W	
Dup-1		6/7/21		1200		G		W	
Possible Hazard Identification		☐ Non-Hazard		☐ Flammable		☐ Skin Irritant		☐ Poison B	
Deliverable Requested: I, II, III, IV, Other (specify)		☐ Unknown		☐ Radiological		☐ Return To Client		☐ Disposal By Lab	
Empty Kit Relinquished by: Andrew Wyatt		Date: 6/9/21		Time: 1:19		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seal No.:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	
Custody Seal No.:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Loc: 660
111186



660-111186 Chain of Custody

Login Sample Receipt Checklist

Client: GHD Services Inc.-HSA

Job Number: 660-111186-1

Login Number: 111186

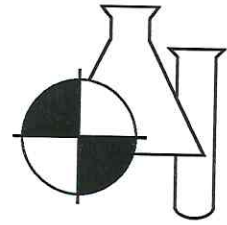
List Number: 1

Creator: Arevalo, Maria L

List Source: Eurofins TestAmerica, Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission Number : S21060203

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : MONTHLY CFM FIB
Date Received : 06/08/2021
Time Received : 13:00

Submission: S21060203

Sample Number: 001
Sample Date: 06/08/2021
Sample Time: 08:20
Sample Description: Manuel Weir
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	3654	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

Submission: S21060203

Sample Number: 002
Sample Date: 06/08/2021
Sample Time: 08:50
Sample Description: Manuel 2
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	452	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

Submission: S21060203

Sample Number: 003
Sample Date: 06/08/2021
Sample Time: 09:10
Sample Description: Manuel 2A
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Analysis Time	Analyst
E- COLI BY IDEXX QUANTITRAY	446	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

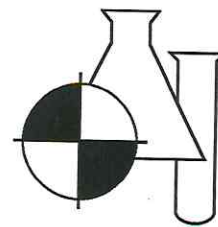
1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

standard report

21060203

PAGE 1 OF 6

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060203

Sample Number: 004

Sample Date: 06/08/2021

Sample Time: 09:15

Sample Description: Manuel PC Upstream

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	703	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

Submission: S21060203

Sample Number: 005

Sample Date: 06/08/2021

Sample Time: 09:20

Sample Description: Manuel PC Downstream

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	650	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

Submission: S21060203

Sample Number: 006

Sample Date: 06/08/2021

Sample Time: 09:25

Sample Description: Manuel 2B

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	789	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

Submission: S21060203

Sample Number: 007

Sample Date: 06/08/2021

Sample Time: 09:35

Sample Description: Manuel 2C

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	717	#/100 ML	10	10	SM9223B	06/08/2021	13:22	LG

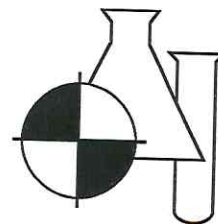
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21060203

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060203

Sample Number: 008

Sample Date: 06/08/2021

Sample Time: 09:45

Sample Description: Manuel 3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	63	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

Submission: S21060203

Sample Number: 009

Sample Date: 06/08/2021

Sample Time: 10:15

Sample Description: Rockfill

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	563	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

Submission: S21060203

Sample Number: 010

Sample Date: 06/08/2021

Sample Time: 10:45

Sample Description: Veronica Shoemaker 1

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	41	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

Submission: S21060203

Sample Number: 011

Sample Date: 06/08/2021

Sample Time: 11:00

Sample Description: Veronica Shoemaker 2

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	408	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

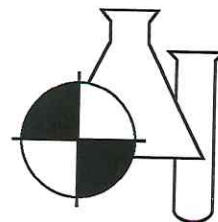
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standard report

21060203

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060203

Sample Number: 012

Sample Date: 06/08/2021

Sample Time: 11:15

Sample Description: Veronica Shoemaker 3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Time	Analyst
E- COLI BY IDEXX QUANTITRAY	318	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

Submission: S21060203

Sample Number: 013

Sample Date: 06/08/2021

Sample Time: 11:30

Sample Description: Veronica Shoemaker 4

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis Date	Time	Analyst
E- COLI BY IDEXX QUANTITRAY	110	#/100 ML	10	10	SM9223B	06/08/2021	13:43	LG

Melinda Merchant

06/11/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant / Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 625-3137.

These results relate only to the samples included in this report.

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

standard report

21060203

PAGE 4 OF 6

Benchmark EnviroAnalytical
 1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
www.benchmarkea.com

Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Client:
 GHD Services, Inc. (HSA ENG)
 2675 Winkler Ave. Suite 180
 Ft. Myers, FL 33901
 Andrew Wyatt
 Fax: 239-936-0819
 Reports: Christina Berghold (Christina.Berghold@ghd.com)
 Andrew Wyatt (Andrew.Wyatt@ghd.com) + (Korner.Naydan@ghd.com)

KIT Shipped to client via UPS Standard in cooler
 24 hr results ASAP via email

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

Chain of Custody Form: *Monthly CRM FIB*
 Project Number: *1135752*

Laboratory Submission #:

521060203

E. coli (SM9223B-QT)

NaThio

1 x 100mL Sterile Plastic

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:		Laboratory Submission #
manuel weir	Grab	SW	<i>6/8/21</i>	<i>0820</i>	<i>1</i>
manuel 2	Grab	SW		<i>0850</i>	<i>2</i>
manuel 2A	Grab	SW		<i>0910</i>	<i>3</i>
manuel PC upstream	Grab	SW		<i>0915</i>	<i>4</i>
manuel PC downstream	Grab	SW		<i>0920</i>	<i>5</i>
manuel 2B	Grab	SW		<i>0925</i>	<i>6</i>
manuel 2C	Grab	SW		<i>0935</i>	<i>7</i>
manuel 3	Grab	SW		<i>0945</i>	<i>8</i>

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
² "Sample Matrix" is used to indicate whether the sample is being dispensed to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMANT), or sludge (SLDG).
³ "Sample Type" is used to indicate whether the sample is being dispensed to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMANT), or sludge (SLDG).
⁴ "Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).
 Under "Preservative," list any preservatives that were added to the sample container.

Laboratory Sample Acceptability: pH < 2 : 0
 BEAS Temperature: *5.1°C*
 BEA Temperature:

1	Collector: <i>GH</i>	Date & Time: <i>6/8/21 1300</i>	2	Received By: <i>Melinda Munchaut</i>	Date & Time: <i>6/8/21 1300</i>
3	Relinquished By:	Date & Time:	4	Received By:	Date & Time:
5	Relinquished By:	Date & Time:	6	Received By:	Date & Time:
7	Relinquished By:	Date & Time:	8	Received By:	Date & Time:

Benchmark EnviroAnalytical, Inc.
 1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
www.benchmarkea.com

BEAS Sample Receipt Temp. 51.1 °C
Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Sample Temperature checked upon receipt with Temperature Gun ID #RAY1000570277

Chain of Custody Form: **Monthly CFM FIS**
 Project Number: **1135752**

GHD Services, Inc. (HSA ENG)
 2675 Winkler Ave. Suite 180
 Ft. Myers, FL 33901
 Andrew Wyatt
 Fax: 239-936-0819
 Reports: Christina Berghold (Christina.Berghold@ghd.com)
 Andrew Wyatt (Andrew.Wyatt@ghd.com) + (Connor.Laydon@ghd.com)

Kit Shipped to client via UPS Standard in cooler
 24 hr Results ASAP via email

Laboratory Submission #:

571060203

Station ID	Sample Type ¹	Sample Matrix ²	E. coli (SM9223B-Q7)			Laboratory Submission #
Rockfall	Grab	SW	NaThio			9
			1 x 100mL Sterile Plastic			
Veronica Shoemaker 1	Grab	SW	Date/Time: 6/8/21	10:15	10	
Veronica Shoemaker 2	Grab	SW	Date/Time:	11:00	11	
Veronica Shoemaker 3	Grab	SW	Date/Time:	11:15	12	
Veronica Shoemaker 4	Grab	SW	Date/Time:	11:30	13	
	Grab	SW	Date/Time:			
	Grab	SW	Date/Time:			
	Grab	SW	Date/Time:			

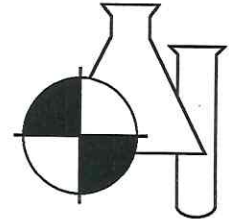
¹Sample Type¹ is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being designed to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the sample is being collected in plastic (P) or glass (G).
4. "Sample Preservation" is used to indicate whether the sample is being preserved (SW) or not (SW).

Laboratory Sample Acceptability: pH < 2: ☐
 BEAS Temperature: 5.1 °C
 BEA Temperature:

1	Collector:	Date & Time:	2	Received By:	Date & Time:
3	Relinquished By:	Date & Time:	4	Received By:	Date & Time:
5	Relinquished By:	Date & Time:	6	Received By:	Date & Time:
7	Relinquished By:	Date & Time:	8	Received By:	Date & Time:

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission Number : S21060257

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : MONTHLY CFM FIB
Date Received : 06/09/2021
Time Received : 13:10

Submission: S21060257

Sample Number: 001
Sample Date: 06/09/2021
Sample Time: 08:45
Sample Description: CFM Winkler
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	15531	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 002
Sample Date: 06/09/2021
Sample Time: 09:10
Sample Description: First Street
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	109	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

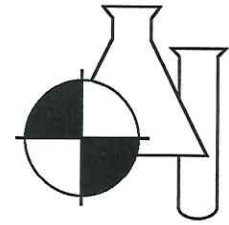
Submission: S21060257

Sample Number: 003
Sample Date: 06/09/2021
Sample Time: 09:25
Sample Description: Seaboard
Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	231	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060257

Sample Number: 004

Sample Description: King Street

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 09:35

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	86	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 005

Sample Description: Shoemaker Bridge

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 09:50

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	279	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 006

Sample Description: Ford Street 2

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 10:10

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	663	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 007

Sample Description: Ford Street 3

Sample Date: 06/09/2021

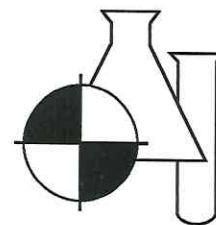
Sample Method: Grab

Sample Time: 10:20

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	295	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060257

Sample Number: 008

Sample Description: Zapato 2

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 10:35

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	135	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 009

Sample Description: Zapato 3

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 10:45

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	160	#/100 ML	10	10	SM9223B	06/09/2021	14:35	LG

Submission: S21060257

Sample Number: 010

Sample Description: Ballard 1

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 11:05

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	231	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

Submission: S21060257

Sample Number: 011

Sample Description: Ballard 1A

Sample Date: 06/09/2021

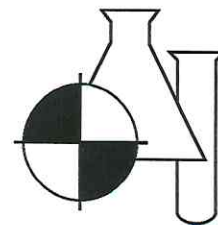
Sample Method: Grab

Sample Time: 11:15

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	323	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21060257

Sample Number: 012

Sample Description: Ballard 1B

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 11:20

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	359	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

Submission: S21060257

Sample Number: 013

Sample Description: Ballard 2

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 11:30

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	393	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

Submission: S21060257

Sample Number: 014

Sample Description: Ballard 3

Sample Date: 06/09/2021

Sample Method: Grab

Sample Time: 11:40

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	323	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

Submission: S21060257

Sample Number: 015

Sample Description: Dup 2

Sample Date: 06/09/2021

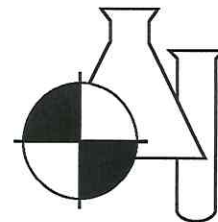
Sample Method: Grab

Sample Time: 12:00

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	471	#/100 ML	10	10	SM9223B	06/09/2021	14:56	LG

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Melinda Merchant

06/11/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant/ Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
B = Results based upon colony counts outside the ideal range.
H = Value based on field kit determination. Results may not be accurate.
I = Reported value is between the laboratory MDL and the PQL.
J1 = Est. value surrogate recovery limits exceeded.
J2 = Est. value. No quality control criteria exists for component.
J3 = Est. value quality control criteria for precision or accuracy not met.
J4 = Est. value. Sample matrix interference suspected.
J5 = Est. value. Data questionable due to improper lab or field protocols
K = Off-scale low. Value is known to be < the value reported.
L = Off-scale high. Value is known to be > the value reported

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 625-3137.

These results relate only to the samples included in this report.

Benchmark EnviroAnalytical, Inc.

Client:

GHD Services, Inc. (HSA ENG)

Kit Shipped to client via UPS Standard in cooler

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

BEAS Sample Receipt Temp. 51.3 °C

**Checked at Benchmark EA South E85086
With Temperature Gun ID #7**

Sample Temperature checked upon receipt with Temperature Gun ID #RAYL000570277

2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Sheri Finn (Sheri.Finn@ghd.com); Andrew Wyatt (Andrew.Wyatt@ghd.com)
David Hempleman (David.Hempleman@ghd.com)

ecoli: 24 hr results ASAP via email (t.canner.hayden@ghd.com)

Page 6 of 7

Chain of Custody Form: Monthly CFM F18
Project Number: 11135752

Laboratory Submission #: 521060957

Station ID	Sample Type ¹	Sample Matrix ²	Date & Time		Laboratory Submission #
			Collection	Analysis	
CFM Winkler	Grab	SW	6/9/21	0845	1
First Street	Grab	SW		0910	2
Seaboard	Grab	SW		0925	3
King Street	Grab	SW		0935	4
Shoemaker Bridge	Grab	SW		0950	5
Ford Street 2	Grab	SW		1010	6
Ford Street 3	Grab	SW		1020	7
Zapato 2	Grab	SW		1035	8

Laboratory Sample Acceptability: pH < 2.0
BEAS Temperature: 5.3 °C
BEA Temperature:

Collector:		Date & Time	Received By:	Date & Time
1		6/9/21 1310	Received By: <i>Monica Muchant</i>	6/9/21 1310
3			Received By:	
5			Received By:	
7			Received By:	

Instructions:
1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Notes:
1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is surface water (SW), groundwater (GW), surface water (SW), soil, sediment (SDANT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).
Under "Preservative," list any preservatives that were added to the sample container.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

BEAS Sample Receipt Temp. 5.3 °C

Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Client:

GHD Services, Inc. (HSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819

Reports: Sheri Finn (Sheri.Finn@ghd.com); Andrew Wyatt (Andrew.Wyatt@ghd.com)

David Hempleman (David.Hempleman@ghd.com)

Kit Shipped to client via UPS Standard in cooler

Page 7 of 7

Sample Temperature checked upon receipt with Temperature Gun ID #RAY1000570277

Chain of Custody Form: monthly CFM FIG
Project Number: 11135752

Laboratory Submission #:

521060957

E. coli (SM9223B-QT)

NaThio

1 x 100mL Sterile Plastic

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:	Laboratory Submission #
Zapato 3	Grab	SW	6/9/21	1045
Ballard 1	Grab	SW		1105
Ballard 1 A	Grab	SW		1115
Ballard 1 B	Grab	SW		1120
Ballard 2	Grab	SW		1130
Ballard 3	Grab	SW		1140
Ballard 3 DUP 2	Grab	SW		1200
	Grab	SW		

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

² "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).

³ "Container Type" is used to indicate whether the container is plastic (P) or glass (G). Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).

⁴ Under "Preservative," list any preservatives that were added to the sample container.

Instructions: 1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.

2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.

3. All bottles not containing preservative may be mixed with appropriate sample prior to collection.

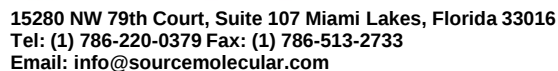
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1	Collector:	Date & Time:	6/9/21	1310	2	Received By:	David Hempleman	Date & Time:	6/9/21	1310
3	Relinquished By:	Date & Time:			4	Received By:		Date & Time:		
5	Relinquished By:	Date & Time:			6	Received By:		Date & Time:		
7	Relinquished By:	Date & Time:			8	Received By:		Date & Time:		

Laboratory Sample Acceptability: pH < 2 : □

BEAS Temperature: 5.3°C

BEA Temperature:



Submitter: GHD Services, Inc

Date Received/Processed: June 9, 2021

ND: Not Detected

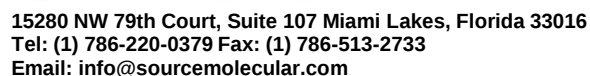
Report Generated: June 18, 2021

Reported Results Authorized By: Anda Quintero, Quality Manager

Results reported herein apply only to the sample matrices as received.

Results reported herein relate to the genetic material extracted from the sample matrix processed and included in the analysis.

Revision 1.4
Effective Date 12/12/19



Laboratory Comments

Submitter: GHD Services, Inc

Report Generated: June 18, 2021

Non-Detect Results

In sample(s) classified as non-detect, the host-associated fecal gene biomarker(s) was either not detected in test replicates, one replicate was detected at a cycle threshold greater than 35 and the other was not, or one replicate was detected at a cycle threshold less than 35 and the other was not after repeated analysis.

Detected Results

In sample(s) classified as detected, the host-associated fecal gene biomarker(s) was detected in both test replicates suggesting that the host's fecal contamination is present in the sample(s). Copy number measurements reported are relative, not absolute, quantification.

Detected Not Quantified (DNQ) Results

In sample(s) classified as Detected Not Quantified (DNQ), the host-associated fecal biomarker was detected in both test replicates but in quantities below the limit of quantification. This result indicates that fecal indicators associated with the respective host was present in the sample(s) but in low concentrations.

Fecal Reference Samples

The client is encouraged to submit fecal samples from suspected sources in the surrounding area in order to gain a better understanding of the concentration of the host-associated biomarker with the regional population. A more precise interpretation would be available to the client with the submittal of such baseline samples.

Result Interpretations

The presence of the biomarker does not signify the presence or absence of that form of fecal pollution conclusively. The most reliable way to accurately test for contamination is to combine genetic testing with scientifically sound and adequate study design appropriate for the water quality questions to be answered or issues to be resolved.

Additional Testing

A portion of all samples has been frozen and will be archived for 3 months. The client is encouraged to perform additional tests on the sample(s) for other hosts suspected of contributing to the fecal contamination.

Limitation of Damages – Repayment of Service Price

It is agreed that in the event of breach of any warranty or breach of contract, or negligence of Source Molecular Corporation, as well as its agents or representatives, the liability of the company shall be limited to the repayment, to the purchaser (submitter), of the individual analysis price paid by him/her to Source Molecular Corp. The company shall not be liable for any damages, either direct or consequential. Source Molecular Corp. provides analytical services on a PRIME CONTRACT BASIS ONLY. Terms are available upon request. The sample(s) cited in this report may be used for research purposes after an archiving period of 3 months from the date of this report. Research includes, but is not limited to internal validation studies and peer-reviewed research publications. Anonymity of the sample(s), including the exact geographic location will be maintained by assigning an arbitrary internal reference. These anonymous samples will only be grouped by state / province of origin for research purposes. The client must contact Source Molecular in writing within 10 days from the date of this report if he/she does not wish for their submitted sample(s) to be used for any type of future research.

DNA Analytical Method Explanation

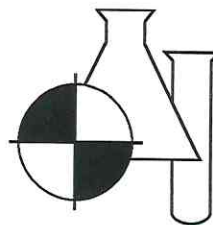
Water Samples: Each submitted water sample is filtered through 0.45 micron membrane filter(s). Each filter is placed in a separate, sterile 2ml disposable tube containing a unique mix of beads and lysis buffer. The sample is homogenized for 1min and the DNA extracted using the Generite DNA-EZ ST1 extraction kit (GeneRite, NJ), as per manufacturer's protocol. Deviations to these procedures may occur at the client's request.

Non-Water Samples: Each non-water sample submitted by the client is processed as per internal laboratory extraction procedures. An extracted DNA sample is proceed directly to PCR analysis. Details available upon request.

Amplifications to detect the target gene biomarker were run on an Applied Biosystems StepOnePlus real-time thermal cycler (Applied Biosystems, Foster City, CA) in a final reaction volume of 20ul sample extract, forward primer, reverse primer, probe and an optimized buffer. All assays are run in duplicate. Quantification is achieved by extrapolating target gene copy numbers from a standard curve generated from serial dilutions of known gene copy numbers.

For quality control purposes, a positive control and a negative control, were run alongside the sample(s) to ensure a properly functioning reaction and reveal any false negatives or false positives.

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

**Submission
Number :**

S21070239

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : CFM FIB

Date Received : 07/13/2021

Time Received : 13:30

Submission: S21070239

Sample Number: 001

Sample Description: 1st Street

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 07:55

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	146	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 002

Sample Description: Seaboard

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 08:10

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	121	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 003

Sample Description: King Street

Sample Date: 07/13/2021

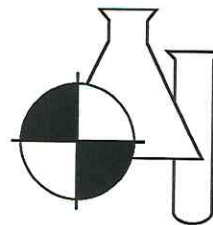
Sample Method: Grab

Sample Time: 08:30

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	135	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21070239

Sample Number: 004

Sample Date: 07/13/2021

Sample Time: 08:40

Sample Description: Shoemaker Bridge

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	318	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 005

Sample Date: 07/13/2021

Sample Time: 09:00

Sample Description: Marsh

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	63	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 006

Sample Date: 07/13/2021

Sample Time: 09:20

Sample Description: Ballard-1

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	148	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 007

Sample Date: 07/13/2021

Sample Time: 09:30

Sample Description: Ballard-2

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	75	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

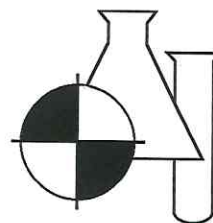
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standard report

21070239

PAGE 2 OF 7

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21070239

Sample Number: 008

Sample Description: Ballard-3

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 09:40

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	146	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 009

Sample Description: Zapato-2

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 09:55

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	73	#/100 ML	10	10	SM9223B	07/13/2021	14:16	LG

Submission: S21070239

Sample Number: 010

Sample Description: Zapato-3

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 10:20

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	52	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

Submission: S21070239

Sample Number: 011

Sample Description: Veronica Shoemaker-1

Sample Date: 07/13/2021

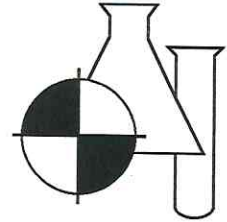
Sample Method: Grab

Sample Time: 11:55

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	10	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

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BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

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Submission: S21070239

Sample Number: 012

Sample Description: Veronica Shoemaker-2

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 10:45

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	110	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

Submission: S21070239

Sample Number: 013

Sample Description: Veronica Shoemaker-3

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 10:05

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	98	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

Submission: S21070239

Sample Number: 014

Sample Description: Veronica Shoemaker-4

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 10:30

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	183	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

Submission: S21070239

Sample Number: 015

Sample Description: Dup-2

Sample Date: 07/13/2021

Sample Method: Grab

Sample Time: 12:00

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	52	#/100 ML	10	10	SM9223B	07/13/2021	16:03	LG

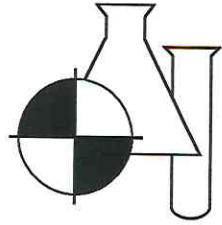
1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

standard report

21070239

PAGE 4 OF 7

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Melinda Merchant

07/16/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant/ Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

- A = Value reported is an average of two or more determinations.
- B = Results based upon colony counts outside the ideal range.
- H = Value based on field kit determination. Results may not be accurate.
- I = Reported value is between the laboratory MDL and the PQL.
- J1 = Est. value surrogate recovery limits exceeded.
- J2 = Est. value. No quality control criteria exists for component.
- J3 = Est. value quality control criteria for precision or accuracy not met.
- J4 = Est. value. Sample matrix interference suspected.
- J5 = Est. value. Data questionable due to improper lab or field protocols
- K = Off-scale low. Value is known to be < the value reported.
- L = Off-scale high. Value is known to be > the value reported

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 625-3137.

These results relate only to the samples included in this report.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

Client:
BEAS Sample Receipt Temp. 5.3 °C
Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Sample Temperature checked upon receipt with Temperature Gun ID #RAV1.000570277

Chain of Custody Form: CFM F1B
Project Number: W 35752

GHD Services, Inc. (HSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Christina Berghold (Christina.Berghold@ghd.com)
Andrew Wyatt (Andrew.Wyatt@ghd.com) & corner.haydon@ghd.com

Kit Shipped to client via UPS Standard in cooler
Email Results ASAP

Laboratory Submission #:

57070239

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:	NaThio	Laboratory Submission #
1st Street	Grab	SW	7/13/21 0755	1 x 100mL Sterile Plastic	1
Seaboard	Grab	SW	0810		2
King Street	Grab	SW	0830		3
Shoemaker Bridge	Grab	SW	0840		4
Marsh	Grab	SW	0900		5
Ballard -1	Grab	SW	0920		6
Ballard -2	Grab	SW	0930		7
Ballard -3	Grab	SW	0940		8

1. Each bottle has a label identifying sample ID, prepackaged preservative contained in the bottle, sample type, client ID, and parameters for analysis.

2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.

3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.

4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Instructions:

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SD), sludge (SLD), or sludge (SLD).

3. "Container Type" is used to indicate whether the sample is being discharged to plastic (P) or glass (G).

4. Under "Preservative," list any preservatives that were added to the sample container.

BEAS Sample Acceptability: pH < 2 : 0
BEAS Temperature: 5.3°C
BEA Temperature:

Collector: Andrew Wyatt	Date & Time: 7/13/21 1330	Received By: Christina Berghold	Date & Time: 7/13/21 1330
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:
Relinquished By:	Date & Time:	Received By:	Date & Time:

Benchmark EnviroAnalytical, Inc.
1711 Twelfth Street East
Palmetto, FL 34221
(941) 723-9986
(941) 723-6061 fax
www.benchmarkea.com

Client:
GHD Services, Inc. (HSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Reports: Christina Berghold (Christina.Berghold@ghd.com)

Kit Shipped to client via UPS Standard in cooler

BEAS Sample Receipt Temp. 5.3 °C
Checked at Benchmark EA South E85086
With Temperature Gun ID #7

Sample Temperature checked upon receipt with Temperature Gun ID #RAY1.000570277

Chain of Custody Form: CFM F16
Project Number: 1135752

Laboratory Submission #:

571670739

E. coli (SM9223B-QT)

NaThio

1 x 100mL Sterile Plastic

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:	Laboratory Submission #
Zapato -2	Grab	SW	7/13/21 0955	9
Zapato -3	Grab	SW	1020	10
Verona Shoemaker - 1	Grab	SW	1155	11
Verona Shoemaker -2	Grab	SW	1045	12
Verona Shoemaker -3	Grab	SW	1005	13
Verona Shoemaker -4	Grab	SW	1030	14
Dup-2	Grab	SW	1200	15
Grab	SW	Date/Time:		

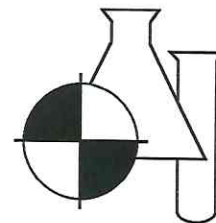
1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SD/SENT), or sludge (SLDG).
3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
4. Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).

Laboratory Sample Acceptability: pH < 2 : 0
BEAS Temperature: 5.3 °C
BEA Temperature:

1. Each bottle has a label identifying sample ID, preservative contained in the bottle, sample type, client ID, and parameters for analysis.
2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
3. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1 Collector: Andrew Wyatt	Date & Time: 7/13/21 1330	2 Received By: Christina Berghold	Date & Time: 7/13/21 1330
3 Relinquished By:	Date & Time:	4 Received By:	Date & Time:
5 Relinquished By:	Date & Time:	6 Received By:	Date & Time:
7 Relinquished By:	Date & Time:	8 Received By:	Date & Time:

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission
Number :

S21070287

G H D Services, Inc
2675 Winkler Ave. Suite 180
Fort Myers, FL 33901

Project Name : CFM FIB

Date Received : 07/14/2021

Time Received : 11:30

Submission: S21070287

Sample Number: 001

Sample Date: 07/14/2021

Sample Time: 07:20

Sample Description: Ford Street 3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	496	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 002

Sample Date: 07/14/2021

Sample Time: 07:35

Sample Description: Ford Street 2

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	1119	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 003

Sample Date: 07/14/2021

Sample Time: 07:50

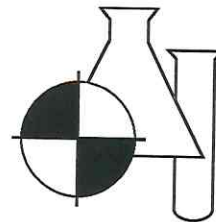
Sample Description: Reclaim Water

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	10 U	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21070287

Sample Number: 004

Sample Date: 07/14/2021

Sample Time: 08:05

Sample Description: Rockfill

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	30	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 005

Sample Date: 07/14/2021

Sample Time: 09:10

Sample Description: Manuel Weir

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	2143	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 006

Sample Date: 07/14/2021

Sample Time: 09:25

Sample Description: Manuel 2

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	602	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 007

Sample Date: 07/14/2021

Sample Time: 09:40

Sample Description: Manuel PC Downstream

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	462	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

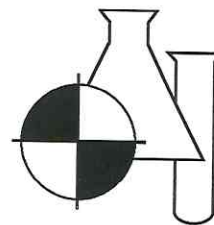
1001 Corporate Ave, Suite 102 North Port, FL 34289 Phone: (941) 625-3137 Fax: (941) 240-3071

standard report

21070287

PAGE 2 OF 5

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Submission: S21070287

Sample Number: 008

Sample Date: 07/14/2021

Sample Time: 09:50

Sample Description: Manuel PC Upstream

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	487	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 009

Sample Date: 07/14/2021

Sample Time: 10:10

Sample Description: Manuel 3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	156	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

Submission: S21070287

Sample Number: 010

Sample Date: 07/14/2021

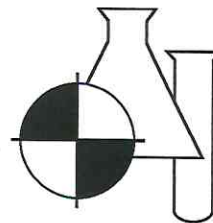
Sample Time: 12:00

Sample Description: DUP-3

Sample Method: Grab

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
E- COLI BY IDEXX QUANTITRAY	122	#/100 ML	10	10	SM9223B	07/14/2021	13:09	MM

BENCHMARK EA SOUTH



ANALYTICAL TEST REPORT

NELAC Certification #E85086

THESE RESULTS MEET NELAC STANDARDS

Melinda Merchant

07/20/2021

Dale D. Dixon / Laboratory Director

Date

Melinda Merchant / Laboratory Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

PQL = 4xMDL. Except for Micro PQL=MDL

X = Value exceed MCL.

N = Presumptive evidence of presence of material.

Q = Sample held beyond accepted hold time (15 minutes for pH).

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank.

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC); the numeric value represents the filtration volume.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

! = Data deviate from historically established concentration ranges.

* = Not reported due to interference.

COMMENTS:

For questions or comments regarding these results, please contact us at (941) 625-3137.

These results relate only to the samples included in this report.

Benchmark EA South
1001 Corporate Avenue, Suite 102
North Port, FL 34289
(941) 625-3137 / (800) 736-9986
(941) 423-7336 fax
Sample Temperature checked upon receipt at BEAS with Temperature Gun ID #7

Benchmark EA, Inc.
1711 12th St. East
Palmetto, FL 34221
(941) 723-9986 / (800) 736-9986
(941) 723-6061-fax
Sample Temperature checked upon receipt at BEA with Temperature Gun ID #RAYL000570277

Client:

GHD Services, Inc. (HSA ENG)
2675 Winkler Ave. Suite 180
Ft. Myers, FL 33901
Andrew Wyatt
Fax: 239-936-0819
Reports: Sheri Finn (Sheri.Finn@ghd.com) ; Andrew Wyatt (Andrew.Wyatt@ghd.com)
David Hempleman (David.Hempleman@ghd.com)

Kit Shipped to client via UPS Standard in cooler

Chain of Custody Form: CFM F1B
Project Number:

Laboratory Submission #:

521070287

7/14/21 LG

287 gud.com

E. coli (SM9223B-QT)

NaThio

1 x 100mL Sterile Plastic

Station ID	Sample Type ¹	Sample Matrix ²	Date/Time:		Laboratory Submission #
Ford Street 3	Grab	SW	7/14/21	0720	1
Ford Street 2	Grab	SW		0735	2
Reclaim Water	Grab	SW		0750	3
Rocklin	Grab	SW		0805	4
Manuel Weir	Grab	SW		0910	5
Manuel 2	Grab	SW		0925	6
Manuel PC Downstream	Grab	SW		0940	7
Manuel PC upstream	Grab	SW		0950	8

1. "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

2. "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).

3. "Container Type" is used to indicate whether the container is plastic (P) or glass (G). Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F).

4. Under "Preservative" list any preservatives that were added to the sample container.

Instructions: 1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.

2. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.

3. All bottles not containing preservative may be fitted with appropriate sample prior to collection.

4. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

1	Collector:	Date & Time:	7/14/21	1128	2	Received By:		Date & Time:	7/14/21	1130
3	Relinquished By:	Date & Time:			4	Received By:		Date & Time:		
5	Relinquished By:	Date & Time:			6	Received By:		Date & Time:		
7	Relinquished By:	Date & Time:			8	Received By:		Date & Time:		

Manuel 3	Grab	SW	7/14/21	1010
DUP 3	Grab	SW	7/14/21	1200

Please run both these samples for parameters listed above

9
10

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

1st Street

LOCATION:

inland of bridge

DATE/TIME:

5/13/21 0950

ALL TIMES ARE:

ETZ or CTZ

(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/m (feet)
(Average of 2 measurements)

Sample Depth: 1.5 (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O. (mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0950</u>	<u>1.5</u>	<u>7.83</u>	<u>3.94</u>	<u>51.3</u>	<u>28.9</u>	<u>152.7</u>	<u>8.78</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O. (mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected inland side of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Seaboard

LOCATION: upstream of bridge

DATE/TIME: 5/13/21 1005

ALL TIMES ARE: (ETZ) or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)
	Canal (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth: <u>1.5</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u> Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u> High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle <u>Dipper</u> Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1005	1.5	7.5	1.57	20.1	28.0	2153	2.57
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
(Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: King Street

LOCATION: bank of ~~canal~~ stream

DATE/TIME: 5/13/21 1020

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: 1.5 (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1020</u>	<u>1.5 ft</u>	<u>7.58</u>	<u>1.03</u>	<u>13.2</u>	<u>28</u>	<u>2050</u>	<u>2.84</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

(Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy Overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected from bank of stream

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Shoemaker Bridge

LOCATION: upstream of bridge

DATE/TIME: 5/13/21 1035

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: Nm (feet)
(Average of 2 measurements)

Sample Depth: 1.5 (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1035</u>	<u>1.5</u>	<u>7.74</u>	<u>1.75</u>	<u>22.5</u>	<u>28.0</u>	<u>1219</u>	<u>7.14</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Marsh

LOCATION: upstream side of bridge bank

DATE/TIME: 5/12/21 1215

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth: <u>1.5</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u> Flood Conditions
WATER LEVEL: (Circle One)	<u>Low</u> Normal High	
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle <u>Dipper</u> Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1215</u>	<u>1.5</u>	<u>7.8</u>	<u>4.05</u>	<u>54.5</u>	<u>30.8</u>	<u>903</u>	<u>3.93</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A
 Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Haydon

REMARKS: sample collected from bank of canal upstream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ballard-1

LOCATION: Bank of Canal

DATE/TIME: 5/12/21

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>Surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) <u>Low</u> Normal High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn Direct Grab with Sample Bottle <u>Dipper</u> Other		

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1150</u>	<u>surface</u>	<u>7.74</u>	<u>4.53</u>	<u>61.7</u>	<u>31.6</u>	<u>629</u>	<u>1.83</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA
 Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Houghton

REMARKS: sample collected from bank of canal

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Ballard-2

LOCATION:

Bank of canal

DATE/TIME:

5/12/21 1200

ALL TIMES ARE:

ETZ or

CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/M (feet)
(Average of 2 measurements)

Sample Depth: surface
(feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1200</u>	<u>surface</u>	<u>7.64</u>	<u>2.23</u>	<u>30.1</u>	<u>31.1</u>	<u>614</u>	<u>3.45</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE:

Andrew Wyatt, Connor Hayden

REMARKS:

sample collected from bank of canal

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Bavard -3

LOCATION: W bank of canal

DATE/TIME: 5/12/21 1225

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: surface (feet)

STREAM FLOW: (Circle One if applicable) No Flow. Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1225</u>	<u>surface</u>	<u>7.89</u>	<u>0.02</u>	<u>108.6</u>	<u>31.4</u>	<u>607</u>	<u>0.97</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Haydon

REMARKS: sample collected on bank of canal

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Zapato - 2

LOCATION: downstream of bridge

DATE/TIME: 5/13/21 1220

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>Surface</u> (feet)
STREAM FLOW: (Circle One if applicable)	<u>No Flow</u>	Flow within Banks	Flood Conditions
WATER LEVEL: (Circle One)	<u>Low</u>	Normal	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle	<u>Dipper</u> Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1220	Surface	7.82	4.00	62	28.5	625	4.23
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: Sample collected downstream of bridge, trash on banks

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Zapata - 3

LOCATION:

down stream of bridge

DATE/TIME:

5/13/21 1210

ALL TIMES ARE:

ETZ

or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: Surface (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks

Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with
Sample Bottle

Dipper Other

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1210</u>	<u>Surface</u>	<u>7.72</u>	<u>2.97</u>	<u>37.7</u>	<u>27.5</u>	<u>753</u>	<u>2.07</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected down stream of bridge little water flow extending at 20 ft past canal exit

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Veronica Shoemaker - 1

LOCATION: upstream of bridge

DATE/TIME: 5/13/21 11:00

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>4M</u> (feet)	Sample Depth:	<u>Surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) <u>Low</u> Normal High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn Direct Grab with Sample Bottle <u>Dipper</u> Other		

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1100</u>	<u>Surface</u>	<u>8.08</u>	<u>7.24</u>	<u>91.3</u>	<u>27.2</u>	<u>589</u>	<u>12.75</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyata, Connor Haydon

REMARKS: sample collected downstream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Veronica Shoemaker Rd

LOCATION: downstream of bridge

DATE/TIME: 5/13/21 1050

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: <u>N/A</u> (feet) (Average of 2 measurements)	Sample Depth: <u>Surface</u> (feet)
STREAM FLOW: (Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions	
WATER LEVEL: (Circle One) <u>Low</u> Normal High	
WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle <u>Dipper</u> Other	

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1050	Surface	7.48	1.99	24.8	26.5	608	1.21
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy Overcast

PERSONNEL ON SITE: Andrew Nyatt, Connor Haydon

REMARKS: sample collected just downstream of bridge, minor vegetation noted

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Veronica Shoemaker-3

LOCATION: downstream of bridge

DATE/TIME: 5/13/21 1110

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth: <u>Surface</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>
WATER LEVEL: (Circle One)	<u>Low</u>	Normal High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle
		<u>Dipper</u> Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1110</u>	<u>Surface</u>	<u>7.23</u>	<u>1.38</u>	<u>17.2</u>	<u>26.6</u>	<u>522</u>	<u>9.07</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Maydon

REMARKS: sampled sample collected downstream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Veronica Shoemaker - 4

LOCATION: downstream of bridge

DATE/TIME: 5/13/21 1130

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) <u>No Flow</u>	Flow within Banks	Flood Conditions
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle	<u>Dipper</u> Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1130	surface	7.85	2.72	35.1	28.5	494	7.26
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wiggatt, Connor Hayden

REMARKS: sample collected down stream of bridge

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ford Street - 2

LOCATION: downstream side of bridge

DATE/TIME: 5/13/21 1155

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>Surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) <u>No Flow</u>	Flow within Banks	Flood Conditions
WATER LEVEL:	(Circle One) <u>Low</u>	Normal	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle	<u>Dipper</u> Other

Field Measurements

Read By: (initials)

Field Measurements		Meter ID#					
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1155</u>	<u>Surface</u>	<u>7.28</u>	<u>2.31</u>	<u>28.6</u>	<u>26.2</u>	<u>478.2</u>	<u>1.04</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream downstream of FS2, patches of silt/oil noted on parts of canal

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ford Street - 3

LOCATION: upstream of bridge

DATE/TIME: 5/13/21 1140 ~~1130~~

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	1.5 <u>NM</u> (feet)	Sample Depth: <u>Surface</u> (feet)
STREAM FLOW: (Circle One if applicable)	<u>No Flow</u>	Flow within Banks Flood Conditions
WATER LEVEL: (Circle One)	<u>Low</u>	Normal High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle <u>Dipper</u> Other

Field Measurements

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1140</u>	<u>Surface</u>	<u>7.19</u>	<u>1.13</u>	<u>13.9</u>	<u>25.8</u>	<u>565</u>	<u>2.10</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A

Yes No

WEATHER CONDITIONS: (circle) raining clear partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt Connor Hayden

REMARKS: sample collected upstream of bridge. oily sheen noted on water surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: manuel - 2

LOCATION: canal + roadway
from bridge

DATE/TIME: 5/13/21 0845

ALL TIMES ARE: (ETZ) or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/M (feet)
(Average of 2 measurements)

Sample Depth: Surface (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0840</u>	<u>Surface</u>	<u>7.07</u>	<u>1.08</u>	<u>13.3</u>	<u>25.5</u>	<u>500</u>	<u>10.02</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A

(Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy misty overcast

PERSONNEL ON SITE: Andrew Wynn, Connor Hayden

REMARKS: Sample collected upstream side of bridge, trash
and duckweed noted

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Manuel - 2A
LOCATION: canal + Jackson
DATE/TIME: 5/13/21 0855
ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>n/m</u> (feet)	Sample Depth:	<u>surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) <u>No Flow</u>	Flow within Banks	Flood Conditions
WATER LEVEL:	(Circle One) <u>Low</u>	Normal	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle	<u>Dipper</u> Other

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
855	surface	7.2	0.09	1.1	25.9	509	1.57
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

n/a
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sampled collect upstream side of bridge, duckweed and green algae noted

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

MANUEL - 2B

LOCATION:

canal + ~~San Juan~~ central
upstream of bridge

DATE/TIME:

5/13/21 0905

ALL TIMES ARE:

ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/M (feet)
(Average of 2 measurements)

Sample Depth: Surface (feet)

STREAM FLOW: (Circle One if applicable) No Flow

Flow within Banks

Flood Conditions

WATER LEVEL: (Circle One)

Low

Normal High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with
Sample Bottle

Dipper Other _____

Field Measurements

Meter ID#

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>9:05</u>	<u>Surface</u>	<u>7.35</u>	<u>1.86</u>	<u>22.9</u>	<u>26</u>	<u>475</u>	<u>5.32</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Haydon

REMARKS: sample collected upstream side of bridge green algae
+ trash noted

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

MANUEL -2C

LOCATION:

canal + Fowler

DATE/TIME:

upstream of bridge

5/13/21 0920

ALL TIMES ARE:

ETZ or CTZ

(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/M (feet)
(Average of 2 measurements)

Sample Depth: surface (feet)

STREAM FLOW: (Circle One if applicable) No Flow

Flow within Banks

Flood Conditions

WATER LEVEL: (Circle One)

Low

Normal High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with
Sample Bottle

Dipper Other

Field Measurements

Meter ID#

**Field Measurements
Read By: (initials)**

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0920</u>	<u>surface</u>	<u>7.41</u>	<u>1.94</u>	<u>23.9</u>	<u>25.9</u>	<u>525</u>	<u>15.95</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS:

sample collected upstream side of bridge, vegetation noted,
but different than previous canal species. pipe crossing canal
noted just upstream of intersection

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Manuel -3

LOCATION: canal + Evans
upstream of bridge

DATE/TIME: 5/13/21 0935
~~5/13/21~~

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)
	<u>Canal</u> (collect samples in representative area)	

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u>	(feet)	Sample Depth:	<u>Surface</u>	(feet)
STREAM FLOW:	(Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions	
WATER LEVEL:	(Circle One)	<u>Low</u>	Normal	High	
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	Direct Grab with Sample Bottle	<u>Dipper</u>	Other	

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0935</u>	<u>Surface</u>	<u>7.56</u>	<u>4.47</u>	<u>54.9</u>	<u>25.6</u>	<u>551</u>	<u>2.70</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:
Samples immediately placed on ice?

N/A
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy, overcast

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of bridge, same vegetation noted as 2C

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Manuel Weir

LOCATION: Downstream of Weir

DATE/TIME: 6/8/21 0820

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area) Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.50 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0820</u>	<u>1.50</u>	<u>7.40</u>	<u>1.68</u>	<u>21.1</u>	<u>26.9</u>	<u>912</u>	<u>5.40</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? YES No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected downstream of weir, at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: MANUEL-2

LOCATION: Upstream side of bridge

DATE/TIME: 6/8/21 0850

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: 1.50 (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0850</u>	<u>1.50</u>	<u>7.46</u>	<u>1.91</u>	<u>24.1</u>	<u>27.3</u>	<u>583</u>	<u>5.86</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected from upstream side of bridge, at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Manuel - 2A</u>
LOCATION:	<u>Upstream Side of Bridge</u>
DATE/TIME:	<u>6/8/21</u> <u>0910</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>1.11</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other _____		

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0910</u>	<u>0.50</u>	<u>7.49</u>	<u>1.47</u>	<u>18.5</u>	<u>27.2</u>	<u>608</u>	<u>2.61</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wjorka

REMARKS: Sample collected upstream side of bridge, at 0.50 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Manuel PC Upstream</u>
LOCATION:	<u>Upstream of Pipe</u>
DATE/TIME:	<u>6/8/21</u> <u>0815</u>
ALL TIMES ARE:	<u>ETD</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>1.00</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other _____		

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0815</u>	<u>1.00</u>	<u>7.39</u>	<u>1.50</u>	<u>18.9</u>	<u>27.2</u>	<u>574</u>	<u>2.63</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Haydon, Andrew Wyder

REMARKS: Sample collected upstream of pipe at 1.00 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Marvel PC Downstream</u>
LOCATION:	<u>downstream of pipe</u>
DATE/TIME:	<u>6/8/21</u> <u>0920</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>1.00</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL:	(Circle One) Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0920</u>	<u>1.00</u>	<u>7.43</u>	<u>0.97</u>	<u>12.2</u>	<u>26.9</u>	<u>661</u>	<u>3.52</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Came Hayson, Andrea Wyck

REMARKS: Sample collected downstream of pipe

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Manuel - 2B</u>
LOCATION:	<u>Upstream of Bridge</u>
DATE/TIME:	<u>6/8/21</u> <u>0925</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NA</u> (feet)	Sample Depth:	<u>1.00</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other		

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0925</u>	<u>1.00</u>	<u>7.51</u>	<u>1.04</u>	<u>13.0</u>	<u>27.0</u>	<u>579</u>	<u>1.50</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA
 Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected upstream of bridge at 1.00 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Manure - 2C</u>
LOCATION:	<u>Upstream of</u>
DATE/TIME:	<u>6/8/21</u> <u>0935</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>1.00</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other		

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0935</u>	<u>1.00</u>	<u>7.61</u>	<u>3.52</u>	<u>44.7</u>	<u>27.6</u>	<u>590</u>	<u>1.71</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew W. West

REMARKS: Samples collected upstream of bridge at 1.00 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Manual - 3

LOCATION: Upstream of Bridge

DATE/TIME: 6/8/21 0145

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area) Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: Nm (feet) Sample Depth: 1.00 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0945</u>	<u>1.00</u>	<u>7.54</u>	<u>4.17</u>	<u>52.4</u>	<u>27.0</u>	<u>659</u>	<u>1.17</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: Nt

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Haynes, Andrew Wright

REMARKS: Sample collected upstream of bridge at 1.00 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Rockfill</u>
LOCATION:	<u>Downstream of Levee Trench</u>
DATE/TIME:	<u>6/8/21</u> <u>1015</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>1.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other		

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1015</u>	<u>1.50</u>	<u>7.12</u>	<u>1.49</u>	<u>19.0</u>	<u>27.5</u>	<u>1135</u>	<u>27.38</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Haydon, Aaron Wipke

REMARKS: Sample collected downstream of Levee Trench at 1.5ft below surface
* = Bad odor / Septic Smell / Gray water / Brown Foam

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Veronica Shoemaker - 1</u>
LOCATION:	<u>Downstream of road crossing</u>
DATE/TIME:	<u>6/8/21</u> <u>1045</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>N/A</u> (feet)	Sample Depth:	<u>Surface</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other		

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1045</u>	<u>Surface</u>	<u>7.95</u>	<u>7.51</u>	<u>95.5</u>	<u>27.6</u>	<u>785</u>	<u>2.11</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected downstream of road crossing from surface.

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Verona Shoemaker - 2</u>
LOCATION:	<u>Downstream of Michigan Ave</u>
DATE/TIME:	<u>6/8/21</u> <u>1100</u>
ALL TIMES ARE:	<u>ETD</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable)	No Flow	<u>Flow within Banks</u>
WATER LEVEL:	(Circle One)	Low	<u>Normal</u> High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1100</u>	<u>0.50</u>	<u>7.58</u>	<u>2.12</u>	<u>26.7</u>	<u>27.1</u>	<u>796</u>	<u>2.30</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NF

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Carla Hayden, Anna W. Smith

REMARKS: Sample collected downstream from Michigan Ave at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Vermona Shoemaker - 3</u>
LOCATION:	<u>Downstream of MLK Jr Blvd</u>
DATE/TIME:	<u>6/8/21</u> <u>1115</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1115</u>	<u>0.50</u>	<u>7.60</u>	<u>4.09</u>	<u>53.8</u>	<u>28.5</u>	<u>711</u>	<u>4.59</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected downstream of MLK Jr. Blvd at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Verona Showmaker - 4</u>
LOCATION:	<u>Downstream of Edison</u>
DATE/TIME:	<u>6/8/21</u> <u>1130</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>1.50</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1130</u>	<u>1.50</u>	<u>7.57</u>	<u>2.20</u>	<u>28.4</u>	<u>28.6</u>	<u>670</u>	<u>4.64</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyke

REMARKS: Sample collected downstream of Edison at 1.5ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

CFM WINKLER

LOCATION:

upstream of weir

DATE/TIME:

6/9/21 8:45

ALL TIMES ARE:

ETZ or CTZ
(circle one)

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH:

NM

(feet)

(Average of 2 measurements)

Sample Depth:

1.50

(feet)

STREAM FLOW:

(Circle One if applicable)

No Flow

Flow within Banks

Flood Conditions

WATER LEVEL:

(Circle One)

Low

Normal

High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with Sample Bottle

Dipper

Other

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0845</u>	<u>1.50</u>	<u>7.32</u>	<u>0.11</u>	<u>1.40</u>	<u>27.4</u>	<u>591</u>	<u>3.15</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

N/A

Yes

No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE:

Andrew Wyatt Connor Haydon

REMARKS:

sample collected upstream of weir. large vegetation mass
and sulphur smell still noted from 6/7 sampling event

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>1st Street</u>
LOCATION:	<u>Upstream of Bridge</u>
DATE/TIME:	<u>6/9/21</u> <u>0910</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>1.50</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0910</u>	<u>1.50</u>	<u>7.82</u>	<u>3.36</u>	<u>45.7</u>	<u>29.6</u>	<u>11275</u>	<u>2.78</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected upstream of bridge at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Seaboard

LOCATION: Upstream of Bridge

DATE/TIME: 6/9/21 0925

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.50 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0925</u>	<u>1.50</u>	<u>7.53</u>	<u>1.66</u>	<u>21.4</u>	<u>28.1</u>	<u>3221</u>	<u>2.27</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Haydon, Andrew Wylatt

REMARKS: Sample collected upstream of bridge at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: King Street

LOCATION: Bank of Creek

DATE/TIME: 6/9/21 0935

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.50 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0935</u>	<u>1.50</u>	<u>7.54</u>	<u>0.79</u>	<u>10.2</u>	<u>27.9</u>	<u>1828</u>	<u>2.63</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected from bank of creek at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Shoemaker Bridge

LOCATION: Upstream of Bridge

DATE/TIME: 6/9/21 0950

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: nm (feet) Sample Depth: 1.50 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0950</u>	<u>1.50</u>	<u>7.64</u>	<u>1.22</u>	<u>15.5</u>	<u>27.5</u>	<u>666</u>	<u>4.19</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Samples collected upstream of bridge at 1.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Ford Street 2</u>
LOCATION:	<u>Downstream MLK Jr. Blvd</u>
DATE/TIME:	<u>6/9/21</u> <u>1010</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL:	(Circle One) Low	<u>Normal</u> High	
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1010</u>	<u>0.50</u>	<u>7.55</u>	<u>1.71</u>	<u>23.6</u>	<u>26.0</u>	<u>478</u>	<u>2.61</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected downstream of MLK Jr Blvd about 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Ford street 3</u>
LOCATION:	<u>Downstream of Edison</u>
DATE/TIME:	<u>6/9/21</u> <u>1020</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u>	Flood Conditions	
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u>	Dipper	Other _____

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1020</u>	<u>0.50</u>	<u>7.48</u>	<u>1.30</u>	<u>16.3</u>	<u>27.2</u>	<u>464</u>	<u>3.08</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected downstream of Edison at 0.50 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Zapato 2</u>
LOCATION:	<u>Downstream of Michigan</u>
DATE/TIME:	<u>6/9/21 1035</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other _____		

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1035</u>	<u>0.50</u>	<u>7.55</u>	<u>4.02</u>	<u>51.4</u>	<u>27.9</u>	<u>713</u>	<u>2.68</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wright

REMARKS: Sample collected downstream of Michigan Ave at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Zapato 3

LOCATION:

Downstream of MLK Jr. Blvd

DATE/TIME:

6/9/21 1045

ALL TIMES ARE:

ETZ or CTZ
(circle one)

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH:
(Average of 2 measurements)

nm

(feet)

Sample Depth:

1.00

(feet)

STREAM FLOW:

(Circle One if applicable)

No Flow

Flow within Banks

Flood Conditions

WATER LEVEL:

(Circle One)

Low

Normal

High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with Sample Bottle

Dipper

Other

Field Measurements

Meter ID#

Field Measurements

Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1045</u>	<u>1.00</u>	<u>7.76</u> 4.92	<u>4.73</u>	<u>60.1</u>	<u>27.8</u>	<u>832</u>	<u>2.93</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Not

Samples immediately placed on ice?

Yes

No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE:

Connor Hayman, Andrea Wyath

REMARKS:

Sample collected downstream of MLK Jr. Blvd at 1.0 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Ballard 1

LOCATION:

Upstream of Culvert

DATE/TIME:

6/9/21 1105

ALL TIMES ARE:

ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: 0.50
(feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

**Field Measurements
Read By: (initials)**

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1105</u>	<u>0.50</u>	<u>7.94</u>	<u>5.77</u>	<u>75.7</u>	<u>22.5</u>	<u>675</u>	<u>10.86</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

NM

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Haydon, Andrew Winters

REMARKS: Sample collected Upstream of Culvert at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Ballard 1A

LOCATION:

Burr New Lift Station

DATE/TIME:

6/9/21 1115

ALL TIMES ARE:

ETZ

or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Canal
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NA (feet)
(Average of 2 measurements)

Sample Depth: 0.50
(feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1115</u>	<u>0.50</u>	<u>7.90</u>	<u>6.11</u>	<u>81.1</u>	<u>30.1</u>	<u>674</u>	<u>3.96</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

NA

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wynter

REMARKS: Sample collected from burr new lift station at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ballard 1B

LOCATION: Bank of Creek near Day Care

DATE/TIME: 6/9/21 1120

ALL TIMES ARE: ETZ or CTZ
(circle one)

SAMPLE LOCATION IMAGE

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Small Stream
(collect samples in representative area)

Canal
(collect samples in representative area)

Large Lake (>10HA)
(collect samples at selected location point)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NA (feet)
(Average of 2 measurements)

Sample Depth: 0.50 (feet)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#			Field Measurements Read By: (initials)		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1120</u>	<u>0.50</u>	<u>7.84</u>	<u>5.80</u> 5.80	<u>77.5</u>	<u>30.4</u>	<u>673</u>	<u>4.86</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Cannon Haydon, Andrea Wyder

REMARKS: Sample collected from bank of creek near day care at 0.5 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Ballard 2</u>
LOCATION:	<u>Bank of Creek</u>
DATE/TIME:	<u>6/9/21</u> <u>1130</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u>	Flood Conditions	
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u>	Dipper	Other _____

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1130</u>	<u>0.50</u>	<u>7.81</u>	<u>5.72</u>	<u>77.9</u>	<u>31.6</u>	<u>659</u>	<u>8.61</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden, Andrew Wyatt

REMARKS: Sample collected from bank of creek at 0.50 ft below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Ballard 3</u>
LOCATION:	<u>Upstream of Pipe Crossing</u>
DATE/TIME:	<u>6/9/21</u> <u>1140</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	Small Stream (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>nm</u> (feet)	Sample Depth:	<u>0.50</u> (feet)
STREAM FLOW:	(Circle One if applicable) No Flow <u>Flow within Banks</u> Flood Conditions		
WATER LEVEL:	(Circle One) Low <u>Normal</u> High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn <u>Direct Grab with Sample Bottle</u> Dipper Other _____		

Field Measurements					Field Measurements		
					Read By: (initials)		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1140</u>	<u>0.50</u>	<u>7.81</u>	<u>5.60</u>	<u>76.6</u>	<u>31.8</u>	<u>634</u>	<u>6.21</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: NA

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Haynes, Andrew Wright

REMARKS: sample collected from upstream side of pipe crossing
at 0.5 ft below surface
* DUP-2 collected Time: 1200

SURFACE WATER FIELD SHEET
Station Information

STATION ID: 1st Street

LOCATION: upstream of bridge

DATE/TIME: 7/13/21 0755

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/A (feet) Sample Depth: 1.5 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements				Field Measurements			
		Meter ID#		Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0755</u>	<u>1.5</u>	<u>7.15</u>	<u>2.55</u>	<u>32.6</u>	<u>27.9</u>	<u>790</u>	<u>4.49</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of bridge. clear water

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Seaboard

LOCATION:

DATE/TIME:

7/13/21 0810
→ upstream of bridge

ALL TIMES ARE:

ETZ or CTZ
(circle one)

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/A (feet)
(Average of 2 measurements)

Sample Depth: 4.5 (feet)

STREAM FLOW: (Circle One if applicable)

No Flow

Flow within Banks

Flood Conditions

WATER LEVEL: (Circle One)

Low

Normal

High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with Sample Bottle

Dipper Other

Field Measurements

Meter ID#

**Field Measurements
Read By: (initials)**

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0810</u>	<u>1.5</u>	<u>7.39</u>	<u>2.19</u>	<u>27.8</u>	<u>28.2</u>	<u>692</u>	<u>2.86</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Haydon

REMARKS: sample collected upstream of bridge. clear water

SURFACE WATER FIELD SHEET
Station Information

STATION ID: King Street

LOCATION: from bank of stream

DATE/TIME: 7/13/21 0830

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: n/m (feet)
(Average of 2 measurements)

Sample Depth: 1.5 (feet)

STREAM FLOW: (Circle One if applicable)

No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One)

Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One)

Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0830</u>	<u>1.5</u>	<u>7.43</u>	<u>2.50</u>	<u>31.7</u>	<u>28.3</u>	<u>546</u>	<u>3.93</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: n/a

Samples immediately placed on ice? (Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected from bank of stream. clear water, low turbidity

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Shoemaker Bridge

LOCATION: upstream of bridge

DATE/TIME: 7/13/21 0840

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)
(Circle One if applicable)

Sample Depth: 1.5 (feet)

STREAM FLOW: No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0840</u>	<u>1.5</u>	<u>7.44</u>	<u>4.17</u>	<u>52.6</u>	<u>27.5</u>	<u>536</u>	<u>4.01</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of bridge. clear water, low turbidity

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>marsh</u>
LOCATION:	<u>from bank of stream</u> <u>upstream of bridge</u>
DATE/TIME:	<u>7/13/21</u> <u>0900</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>N/A</u> (feet)	Sample Depth:	<u>1.0</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0900</u>	<u>1.0</u>	<u>7.00</u>	<u>1.86</u>	<u>23.7</u>	<u>27.8</u>	<u>536</u>	<u>10.79</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected from bank of stream. Near water, no odor
Duplicate taken

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ballard 1

LOCATION: upstream of culvert

DATE/TIME: 7/13/21 0920

ALL TIMES ARE: (ETZ) or CTZ
(circle one)

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: Nm (feet)
(Average of 2 measurements)

Sample Depth: @ surface (feet)

STREAM FLOW: (Circle One if applicable)

No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One)

Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One)

Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0920</u>	<u>@ surface</u>	<u>7.59</u>	<u>5.24</u>	<u>67.3</u>	<u>28.5</u>	<u>384</u>	<u>4.61</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining clear partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected upstream of culvert. clear, fast moving stream
no odors noted

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ballard 2

LOCATION: from bank

DATE/TIME: 7/13/21 0930

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: (a) surface (feet)

STREAM FLOW: (Circle One if applicable)

No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One)

Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One)

Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0930</u>	<u>@ surface</u>	<u>7.64</u>	<u>4.32</u>	<u>50.3</u>	<u>28.6</u>	<u>540</u>	<u>3.48</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

NA
Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wylatt, Connor Hargett

REMARKS: sample collected from bank of stream. clear, fast moving water. no odor noted.

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Ballard - 3

LOCATION: from bank of stream

DATE/TIME: 7/13/21 0940

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area) Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/A (feet) Sample Depth: @ surface (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0940</u>	<u>@ surface</u>	<u>7.64</u>	<u>4.53</u>	<u>56.5</u>	<u>28.8</u>	<u>538</u>	<u>1.78</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Haydon

REMARKS: sample collected upstream of pipe. clear, fast moving water, no odor

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Zapato - 2

LOCATION: down stream of bridge

DATE/TIME: 7/13/21 0955

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.5 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
0955	1.5	7.30	2.85	35.5	27.5	603	1.94
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

Samples immediately placed on ice?

NA
Yes/No

WEATHER CONDITIONS: (circle) raining clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden Andrew Wyatt

REMARKS: Sample collected downstream from bridge. clear water, no odor

SURFACE WATER FIELD SHEET
Station Information

VS Shoemaker 3

STATION ID:	249940-3
LOCATION:	downstream of bridge
DATE/TIME:	7/13/21 1005
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	NM	(feet)	Sample Depth:	@ surface	(feet)
STREAM FLOW: (Circle One if applicable)	No Flow	Flow within Banks	Flood Conditions		
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High		
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper	Other	

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1005	@ surface	7.16	4.40	56.5	28.7	492	4.55
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wgatt, Connor Hayden

REMARKS: sample collected down stream from bridge. clear water, no odor. appears to have been an accident @ location. car bumper/parts in stream.

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Zapato 3

LOCATION: from bank of stream

DATE/TIME: 7/13/21 1020

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: N/A (feet) Sample Depth: 1.5 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
				Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
	<u>1.5</u>	<u>7.24</u>	<u>2.52</u>	<u>31.5</u>	<u>27.1</u>	<u>643</u>	<u>3.6</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected from bank of stream, clear/calm water
no odor

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Veronica Shoemaker 4

LOCATION: downstream of bridge

DATE/TIME: 7/13/21 1030

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.5 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1030</u>	<u>1.5</u>	<u>7.07</u>	<u>0.35</u>	<u>4.50</u>	<u>27.3</u>	<u>700</u>	<u>5.63</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected from downstream side of bridge. algae and debris film noted on water surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Veronica Shoemaker 2</u>
LOCATION:	<u>downstream of bridge</u>
DATE/TIME:	<u>7/13/20 1045</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>N/A</u> (feet)	Sample Depth:	<u>1.5</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
1045	1.5	7.41	3.03	38.7	27.7	566	2.27
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyant, Connor Maydon

REMARKS: sample collected downstream of bridge. vegetation growth noted just below surface

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Veronica Shoemaker 1</u>
LOCATION:	<u>downstream of bridge</u>
DATE/TIME:	<u>7/13/21</u> <u>1155</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>@ surface</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O. (mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1155</u>	<u>@ surface</u>	<u>7.80</u>	<u>9.10</u>	<u>117.3</u>	<u>28.7</u>	<u>534</u>	<u>2.46</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O. (mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A
 Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining clear, partly cloudy, windy

PERSONNEL ON SITE: Andrew Wyatt, Connor Hayden

REMARKS: sample collected downstream of bridge large number of plants growing in water. clear, no odor

SURFACE WATER FIELD SHEET
Station Information

6000

STATION ID: Ford Street 3

LOCATION: downstream of bridge

DATE/TIME: 7/14/21 0720

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet) Sample Depth: 1.5 (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#			Field Measurements		
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
0720	1.5	7.38	3.33	41.8	27.4	482	2.45
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: sample collected downstream side of bridge clear, no odor water
trash along bank and some sitting in water

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Ford Street 2</u>
LOCATION:	<u>downstream of bridge</u>
DATE/TIME:	<u>7/14/21</u> <u>0735</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>N/A</u> (feet)	Sample Depth:	<u>@ surface</u> 1 ft (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0735</u>	<u>@ surface</u>	<u>7.37</u>	<u>2.15</u>	<u>26.8</u>	<u>26.4</u>	<u>442</u>	<u>3.25</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A
 Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: sample collected downstream side of bridge. clear, non-odor water. vegetation growing on sb on bottom of stream. minor debris in mud.

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Reclaim water

LOCATION: from spigot

DATE/TIME: 7/14/21 0750

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (feet) Sample Depth: (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other

Field Measurements

Meter ID#

Field Measurements
Read By: (initials)

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: Sample collected from spigot @ park adjacent to Ford Street 2 from "museum office" building

SURFACE WATER FIELD SHEET
Station Information

STATION ID:

Rocklin

LOCATION:

east bank of stream

DATE/TIME:

7/14/21 0805

ALL TIMES ARE:

ETZ or CTZ

(circle one)

WATERBODY TYPE:
(Circle One)

Small Lake (>4 and <10HA)
(collect samples in middle of open water)

Large Lake (>10HA)
(collect samples at selected location point)

Small Stream
(collect samples in representative area)

Large River
(collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: NM (feet)
(Average of 2 measurements)

Sample Depth: @ surface (feet)

STREAM FLOW: (Circle One if applicable)

No Flow

Flow within Banks

Flood Conditions

WATER LEVEL: (Circle One)

Low

Normal

High

WATER SAMPLE COLLECTION DEVICE
(Circle One)

Van Dorn

Direct Grab with
Sample Bottle

Dipper

Other

Field Measurements

Meter ID#

**Field Measurements
Read By: (initials)**

Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0805</u>	<u>@ surface</u>	<u>7.39</u>	<u>1.33</u>	<u>16.4</u>	<u>26.0</u>	<u>550</u>	<u>3.01</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2:

N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS:

collected sample from east side of bank. clear water, no odors
newly vegetation grown in stream

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>manuel weir</u>
LOCATION:	<u>upstream of bridge</u>
DATE/TIME:	<u>7/14/21</u> <u>0910</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>WM</u> (feet)	Sample Depth:	<u>1.5</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0910</u>	<u>1.5</u>	<u>7.39</u>	<u>3.51</u>	<u>43.8</u>	<u>26.3</u>	<u>483</u>	<u>1.52</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice?

Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: sample collected on upstream side of bridge near non-odorous water. minor debris around just downstream of weir

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	Manuel 2
LOCATION:	up down stream of bridge
DATE/TIME:	7/14/21 0925
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH:	<u>NM</u>	(feet)	Sample Depth:	<u>1.0</u>	(feet)
(Average of 2 measurements)					
STREAM FLOW:	(Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions	
WATER LEVEL:	(Circle One)	Low	<u>Normal</u>	High	
WATER SAMPLE COLLECTION DEVICE	(Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper	Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
0925	1.0	7.34	1.85	23.3	26.7	438	0.87
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Haydon

REMARKS: sample collected upstream side of bridge. clear non-odorous water. vegetation growing on bottom of stream. milky sheen noticed on south side of canal

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>manure PC downstream</u>
LOCATION:	<u>downstream of pipe</u>
DATE/TIME:	<u>crossing canal</u> <u>7/14/21</u> <u>0940</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH:	<u>nm</u> (feet)	Sample Depth:	<u>@ surface</u> (feet)
(Average of 2 measurements)			
STREAM FLOW:	(Circle One if applicable)	No Flow	<u>Flow within Banks</u>
WATER LEVEL:	(Circle One)	Low	<u>Normal</u> High
WATER SAMPLE COLLECTION DEVICE	(Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>
		Dipper	Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0940</u>	<u>@ surface</u>	<u>7.28</u>	<u>1.35</u>	<u>15.8</u>	<u>26.8</u>	<u>429</u>	<u>0.53</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? (Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS:

Sample collected downstream of pipe crossing canal.
Multiple species of vegetation growing in/around water.
Water clear, non-odorous

SURFACE WATER FIELD SHEET
Station Information

STATION ID: Manuel PC upstream

LOCATION: upstream of pipe crossing canal

DATE/TIME: 7/14/21 0950

ALL TIMES ARE: ETZ or CTZ
(circle one)

WATERBODY TYPE: (Circle One) Small Lake (>4 and <10HA)
(collect samples in middle of open water) Large Lake (>10HA)
(collect samples at selected location point)

Small Stream Large River
(collect samples in representative area) (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: Nm (feet) Sample Depth: (2) surface (feet)
(Average of 2 measurements)

STREAM FLOW: (Circle One if applicable) No Flow Flow within Banks Flood Conditions

WATER LEVEL: (Circle One) Low Normal High

WATER SAMPLE COLLECTION DEVICE (Circle One) Van Dorn Direct Grab with Sample Bottle Dipper Other _____

Field Measurements		Meter ID#		Field Measurements Read By: (initials)			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>0950</u>	<u>@ surface</u>	<u>7.22</u>	<u>0.5-9</u>	<u>7.4</u>	<u>26.9</u>	<u>460</u>	<u>0.86</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? Yes No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: Sample collected upstream of pipe crossing canal. multiple species of vegetation growing in/around water. clear water, non odorous.

SURFACE WATER FIELD SHEET
Station Information

STATION ID:	<u>Manuel 3</u>
LOCATION:	<u>upstream of bridge</u>
DATE/TIME:	<u>7/14/21 1010</u>
ALL TIMES ARE:	<u>ETZ</u> or CTZ (circle one)

WATERBODY TYPE: (Circle One)	Small Lake (>4 and <10HA) (collect samples in middle of open water)	Large Lake (>10HA) (collect samples at selected location point)
	<u>Small Stream</u> (collect samples in representative area)	Large River (collect samples in representative area)

Water Characteristics

TOTAL WATER DEPTH: (Average of 2 measurements)	<u>NM</u> (feet)	Sample Depth:	<u>@ surface</u> (feet)
STREAM FLOW: (Circle One if applicable)	No Flow	<u>Flow within Banks</u>	Flood Conditions
WATER LEVEL: (Circle One)	Low	<u>Normal</u>	High
WATER SAMPLE COLLECTION DEVICE (Circle One)	Van Dorn	<u>Direct Grab with Sample Bottle</u>	Dipper Other _____

Field Measurements		Meter ID#		Field Measurements			
Time (24 hr.)	Surface Depth Collected (feet)	pH* (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)
<u>1010</u>	<u>@ surface</u>	<u>7.29</u>	<u>3.52</u>	<u>43.6</u>	<u>26.3</u>	<u>405</u>	<u>0.01</u>
Time (24 hr.)	Bottom Depth Collected (feet)	pH (SU)	D.O.(mg./L)	D.O. (%)	Temp (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)

*pH of preserved sample: number of drops of sulfuric acid added in field to achieve pH of less than 2: N/A

Samples immediately placed on ice? (Yes) No

WEATHER CONDITIONS: (circle) raining, clear, partly cloudy, windy

PERSONNEL ON SITE: Connor Hayden

REMARKS: sample collected upstream of bridge. was non-odorous, small debris in water. heavy plant growth in/around area. DWP collected