MS4 Phase I Annual Report

January 2024

Prepared For

City of Alabaster

1953 Municipal Way

Alabaster, Alabama 35007

Prepared by

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Signatory and Certification Requirements:

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ Date _____

Scott Brakefield

Mayor, City of Alabaster

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APPENDICES

1.0 CONTACT INFORMATION/RESPONSIBLE PARTIES

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2.0 PROGRAM EVALUATION

2.1 Major Findings

There were no major findings identified during the permit period from October 1, 2022 to September 20, 2023.

2.2 Major Accomplishments

1. In the 2022-2023 permit year, the City contracted Volkert to perform several of the MS4 inspections and prepare reports. These aspects included public education/public involvement, structural control inspections, municipal facilities inspections, industrial and high-risk facilities inspections, post-construction best management practices (BMPs) inspections, dry weather outfall screenings and wet weather sampling.

2. The City continued the implementation of green infrastructure (GI) and low impact development (LID) where feasible. Current subdivision and zoning regulations are being revised to include and encourage the implementation of GI and LID.

3. Forty volunteers participated in the Clean Sweep litter pickup event held in April 2023. More than 52 bags of litter were collected from six miles of roadway and parkway within the MS4 boundary limits.

4. From October 2022 to September 2023, approximately 3,180 pounds of electronics were recycled by ProTec Recycling.

5. From January 2023 to September 2023, approximately 700 pounds of trash was removed from Buck Creek through the litter gitter program.

2.3 Overall Program Strengths/Weakness

Several aspects of the program were contracted out this year. These included public education/public involvement, structural control inspections, municipal facilities inspections, industrial and high-risk facilities inspections, post-construction best management practices (BMPs) inspections, dry weather outfall screenings and wet weather sampling.

A meeting was held with the City departments responsible for implementing the MS4 program in December 2022 to review the annual report submitted for the 2021-2022 permit period. Discussions included improving on permit requirements currently being implemented and implementing permit requirements that had not been previously implemented. Additionally, budget considerations were made to assist with the management of the MS4 program for the 2022-2023 permit period.

Available funds for the MS4 program have continued to increase compared to the amount initially allocated for the program. This increase in funding has, in turn, increased public education and outreach, point source pollution identification, public relations and increased the amount of hired staff. The public outreach program has a fulltime public relations specialist on staff which is dedicated to improving public education and public involvement. In addition, the public relations specialist has

implemented direct communications with homeowners' associations in regards to preventing litter, floatables and debris from entering waterways.

2.4 Future Direction of the Program

The City of Alabaster's MS4 program will continue to fully implement or exceed the requirements set forth in the MS4 permit in order to best preserve and restore water quality within the City's MS4 boundary. An increase in construction BMPs and procedures is in the program's top interest for future development. Emphasis will continue to be put on public education and public awareness, specifically with homeowners' associations and developers. The City continues utilizing social media as a tool to assist in this effort. In April 2022, the City of Alabaster's Environmental Services Department initiated an inflow and infiltration (I&I) reduction program. Since then, four sewer rehabilitation and replacement contracts have been designed, bid, and are under construction. These contracts included replacement of broken lines, point repairs of broken services, manhole replacements, manhole repairs, manhole rehabilitation, and misc. other repairs. In addition to the construction projects, smoke testing of the entire system has been completed, television inspection of all lines is approximately 25% complete, manhole inspections are complete along all major trunk lines, and lift station wet well inspections have begun. Beginning in 2022, the I&I plan is scheduled to continue over the next 10 years with continual improvements of approximately $2,000,000 per year to the system.

2.5 Effectiveness of the SWMPP

The stormwater management program plan has several components, and each was evaluated for its effectiveness.

The public education and public involvement control measure was effective in the outreach to citizen groups and individuals by the implementation of clean up and recycling days. Overall, the program recycled 3,180 lbs of electronics, recycled 9,000 lbs of paper, cleaned up six miles of roadway, collected over 50 bags of litter and involved 40 individuals. Additionally, the program continues public outreach and involvement through public events, the city website, the city newsletter and the library.

Illicit discharge detection and elimination control measures were effective in identifying four instances of discharges. The evaluation and remediation of the illicit discharges were quickly implemented and, overall, successful.

Post-construction stormwater management control measures were effective in evaluating 35 post-construction best management practices (BMPs). Of those 35, 12 had items to be addressed. Landowners responsible for the BMPs were notified of the issues and follow up inspections showed they were addressed.

Pollution prevention and good housekeeping for municipal operations was successful and effective in acquiring inventories of chemical storage on site, good housekeeping SOPs and staff pollution prevention training. Additionally, the oil collection program was responsible for 693 gallons of cooking oil being collected. One hundred twenty tons of

household trash was recycled and 2500 man-hours were devoted to the litter gitter control program.

Overall, the SWMPP has been effective in reducing pollution to waters of the US through the implementation of the management plan. Additionally, the program has reduced litter and illicit discharges in the MS4 boundary, provided training for personnel, reduced curbside waste and trash, and recycled hundreds of tons of oil, trash and electronics.

2.6 Required Actions Not Performed

Two required actions were not performed during this permit period. One required action not performed was the collection of a wet weather sample within the established requirements. Samples were gathered quarterly with one sample being outside of a 0.1" rain event. Samples could not be gathered due to a lack of sufficient rain events and a lack of laboratory availability. The second action not performed was tracking the number of visitors to the City's storm water page. There was a failure in the software utilized to gather traffic for the website and a new software was implemented to resolve this issue.

2.7 Evaluation of Monitoring Data

Monitoring data of Buck Creek was performed quarterly. Water quality parameters were within a desirable range. Total nitrogen concentrations were elevated during the September 2023 sampling event. Since monitoring Buck Creek in 2016, parameters have mostly trended downward or remained consistent. All parameters are within the range of the water quality criteria for fish and wildlife use designations and for improved warm water use designations.

3.0 NARRATIVE REPORT

3.1 Storm Water Collection Systems Operations

Two rounds of structural control inspections were conducted in the 2022-2023 permit period. Fourteen City owned stormwater detention ponds were inspected with three of those structures being added in the middle of the year. The first round of inspections was conducted in January 2023. Throughout the year, a few ponds were found to have minor deficiencies (debris blocking outfalls, overgrown vegetation) during the inspections. Public works and Parks and Rec addressed all deficiencies noted.

See **Appendix A** for the structural controls map and list. Inspection forms and copies of contractual agreements for maintenance activities performed by others will be made available to the Department upon request.

3.2 Public Education and Public Involvement

An informational update on the MS4 program was made to the mayor, city council, and public at the December 2022 City Council work session. This update was made to inform the public and elected officials of progress made towards the changes to the City's MS4

program. City staff reported on the data that was gathered during various inspections and addressed questions regarding the program. Additionally, City staff discussed the Clean Sweep program being conducted that year.

Two public education events were held this year. One took place in August 2023 at the annual Healthfest event where approximately 110 pamphlets were handed out to participants. Pamphlets regarding animal waste, fertilizer use and disposal of spent oil were most discussed with the public. A second public education event was held at the Jubilee event in October of 2022. This event was not as successful as anticipated with only a few pamphlets being handed out. In addition to the in-person public education events, informational advertisements regarding litter control and the MS4 programs role were placed in the bimonthly newsletter as a means to educate citizens who could not attend in-person events.

Brochure handouts were updated to be more informational and interesting to the public. Three additional handouts were developed discussing various areas of potential pollution to local bodies of water and the stormwater system.

Forty volunteers participated in the Clean Sweep litter pickup event held in April of 2023. Over 52 bags of litter were collected from six miles of roadway and parkway within the MS4 boundary limits.

From October 2022 to September 2023, approximately 3,180 pounds of electronics were recycled by ProTec Recycling.

3.3 Illicit Discharge Detection and Elimination

Forty-nine outfalls of the 221 were scheduled for dry weather screening inspections during the 2022-2023 permit period. See **Appendix B** for the list of outfalls that were inspected. Twenty-two of the outfalls had issues that needed addressing, 12 were found to have erosion or structural issues. Ten inlets were noted as needing vegetation maintenance or debris removed. Those items were forwarded to the City Public Works Department for maintenance and have been addressed. Inspection forms will be made available to the Department upon request.

Inspection forms were revised, digitized and updated to provide a more simplistic approach to data control and assist with interpretation to property owners and City workers.

Four incidents of illicit discharges within the City's MS4 boundary were reported. Two incidents involved motor vehicles in which oil or fuel was released. All released oil or fuel was immediately contained and removed. It was determined no illicit discharge entered a waterbody. The other two incidents involved discharges of fill material into ditches. The responsible parties were issued a stop work order and cleanup is in progress. No further events were recorded.

Approximately 330-man hours were logged by employees for hazmat response training. Training attendance records will be made available to the Department upon request. The City's Environmental Services Department reported five sanitary sewer overflow

(SSO) events to the Department during the permit year. See **Appendix C** for the SSO reports submitted to the Department.

3.4 Construction Site Storm Water Runoff Control

One hundred sixteen land disturbance permits were submitted and permitted during the 2022-2023 permit period. Four hundred thirty construction inspections were conducted. Copies of the inspection reports will be made available to the Department upon request. Four City employees attended the two QCI refresher classes given by Thompson Engineering. Training attendee records will be made available to the Department upon request.

3.5 Post-Construction Storm Water Management

Ordinance 101001-075, Storm Water Management Post-Construction Ordinance, was passed on October 1, 2018 by the city council to ensure the applicability and enforceability of postconstruction BMPs at all new development and redevelopment projects. A hyperlink to the City of Alabasters Library of Ordinances can be found here: https://library.municode.com/al/alabaster/codes/code_of_ordinances. Inspections on the privately-owned structural controls began in the 2018-2019 permit period. Thirty-five privately-owned sites were inspected by the City for compliance. Twelve sites have been notified of minor deficiencies and those owners are addressing the concerns. See **Appendix D** for a list of the sites that have privately owned structural controls and an example of a post-construction BMPs inspection.

Inspection forms were revised, digitized and updated to provide a more simplistic approach to data control and assist with interpretation to property owners and City workers.

The City currently owns 14 structural controls. See Section 3.1 for details regarding the City owned structural controls.

3.6 Spill Prevention and Response

Two incidents of illicit discharges within the border of the City's MS4 boundary were reported due to spills. Both incidents involved motor vehicles in which oil or fuel were released. All released oil or fuel was immediately contained and removed. It was determined no illicit discharge entered a waterbody. No further events were recorded.

Spill prevention and response training for city employees was conducted as normal. City employees attended 330 hours of hazmat response training. Training records will be made available to the Department upon request.

3.7 Pollution Prevention/Good Housekeeping for Municipal Sites

Twenty-four municipal facilities were inspected for good housekeeping practices in the 2022-2023 permit period. See **Appendix E** for a summary of the facilities inspections. Inspection forms will be made available to the Department upon request. See **Appendix E** for municipal facilities map.

Table 1 summarizes the trash removal effort in the 2022-2023 permit period. 25,000-man hours were spent collecting trash.

Table 1 – Trash Removal

Litter Control	Tons/Yr
Curbside to landfill	8,600
Household trash	19,890
Recycled household trash	120
Park and Rec Areas	70

3.8 Pesticides, Herbicides, and Fertilizers Application

A total of 105 gallons of herbicide and 65,000 pounds of fertilizer were applied to public right of ways, parks, and other public property for this reporting year. Mowing practices were used by the City to help reduce the amount of pesticides, herbicides, and fertilizers applied. A combined total of 9,500-man hours were expended mowing City maintained areas. Nine classes were attending for training on fertilizer, herbicide, and pesticide in 2023.

3.9 Oils, Toxics, and Household Hazardous Wastes

There were no quantities of household hazardous waste or used motor oil collected. The City collected 693 gallons of used cooking oil. Inspection and training reports will be made available to the Department upon request.

3.10 Industrial Storm Water Runoff

The City made no changes to its list of industrial and high-risk commercial facilities located within the city limits. See **Appendix F** for the list. Of the twenty-four facilities listed, 14 have a current NPDES permit issued by ADEM. Seven facilities were inspected by the City during the 2022-2023 permit period. One facility had enforcement actions taken against them and has since been resolved.

Inspection forms were revised, digitized and updated to provide a more simplistic approach to data control and assist with interpretation to property owners and City workers.

4.0 NOTICE OF RELIANCE

The City of Alabaster was reliant on their consultant to assist with permit compliance. Volkert, Inc. participated in public education/public involvement and conducted structural control inspections, municipal facilities inspections, industrial facilities inspections, high- risk facilities inspections, post-construction BMPs inspections, dry weather outfall screenings and wet weather sampling.

5.0 EVALUATION OF DISCHARGES

No discharges in the City of Alabaster MS4 boundary contributed directly or indirectly to an ADEM 303(d) listed stream or to a stream for which a TMDL has been established or approved by the Environmental Protection Agency (EPA).

6.0 MONITORING

During preparation of the SWMPP, the ADEM 303-d list was reviewed for impaired waterbodies within the City's MS4 boundary. No listed waterbody segments were found within the MS4 Boundary; therefore, only two testing locations were identified per the permit for wet-weather monitoring. All parameters with the exception of total nitrogen were consistent over the past 2022-2023 monitoring period. Since monitoring Buck Creek in 2016, parameters have mostly trended downward or remained consistent. Sampling site 2 is located within a section of Buck Creek that is designated as a limited warmwater fishery for water usage. According to the water quality criteria and the water assessment methodology established by ADEM, all parameters are within the acceptable ranges. Sampling site 1 is located within a section of Buck Creek that is designated as fish and wildlife water usage. According to the water quality criteria and the water assessment methodology established by ADEM, all parameters are within the acceptable ranges.

See **Appendix G** for map of monitoring locations, graphs and laboratory analysis information.

7.0 IMPLEMENTATION AND PROPOSED CHANGES TO SWMPP

The SWMPP has been updated to reflect the changes made during 2022-2023 permit period. These changes included updating quantities for municipal facilities, updating the number for structural controls, revising maps, adding in the litter gitter program and updating appendices.

8.0 INSPECTIONS AND ENFORCEMENT

As stated in Sections 3.1, 3.3, 3.7, and 3.10 structural controls inspections, outfall dry weather outfall screenings, municipal facilities inspections, construction inspections, post-construction BMPs inspections, high-risk industrial facilities inspection and industrial facilities inspections were performed in this program year. At the industrial sites, one violation was noted in the City's inspections and resolved accordingly. Any issues with structural controls were sent to the responsible parties and were addressed within a timely manner.

9.0 PUBLIC EDUCATION PROGRAMS

The City has developed a storm water webpage, www.cityofalabaster.com/388/Stormwater-Management. This webpage has been populated with links to guides, permit information, BMP and LID manuals, City storm water ordinances and City subdivision and development regulations for public use. Informational brochures have been placed in the building department and the library for citizen pickup. Additionally, two events were held this past permit period for public outreach and was deemed a success as hundreds of participants become involved and interested in the stormwater program. Furthermore, the public outreach program has a full-time public relations specialist on staff which is dedicated to improving public education and public involvement. The public relations specialist has implemented direct communications with homeowners' associations in regards to preventing litter, floatable and debris from entering waterways.

10.0 FISCAL ANALYSIS

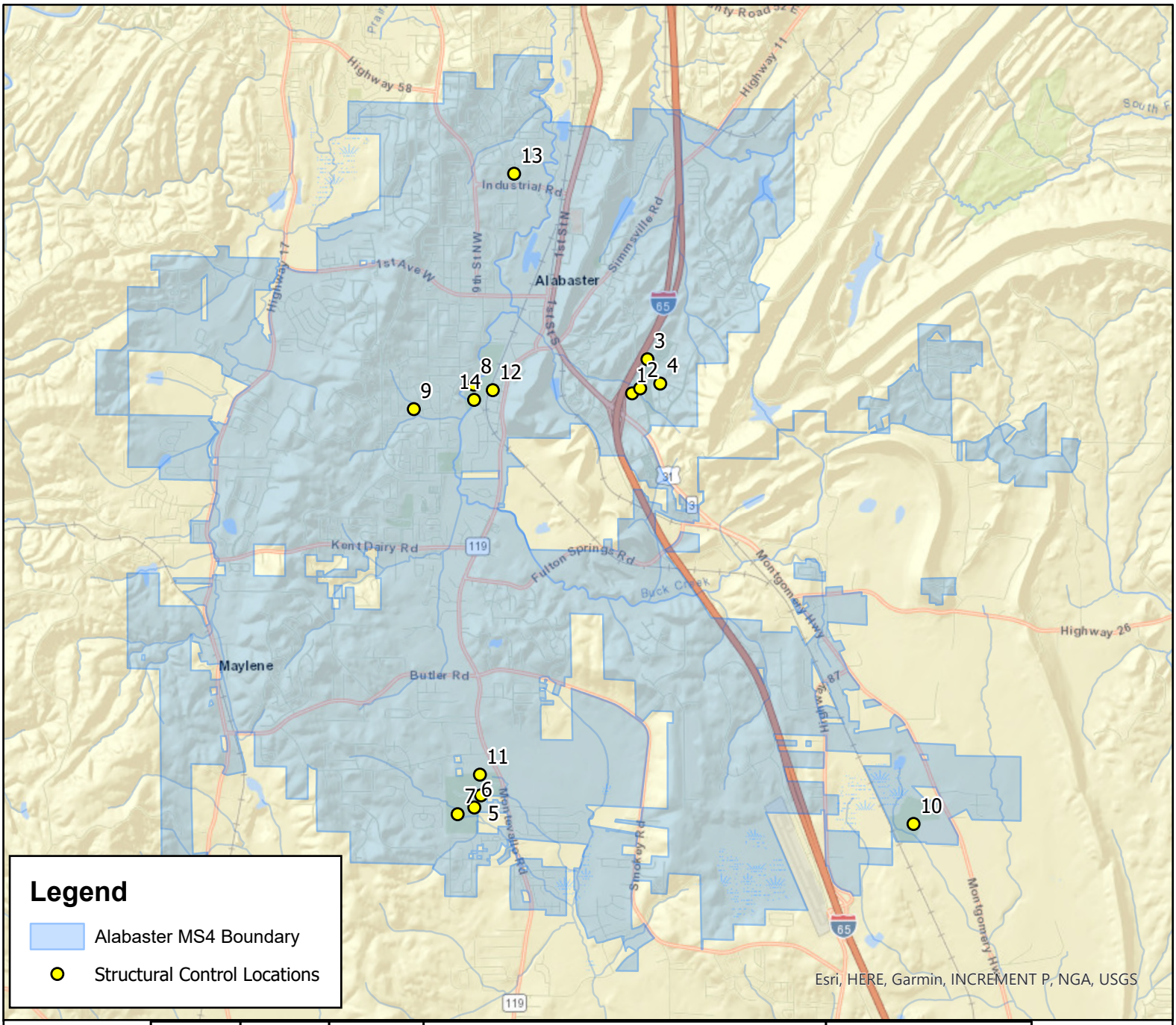
All cost associated with fulfilling the requirements of ALS000011 have been paid out of the City's general fund account. See **Table 2** below for a breakdown summary of cost for the permit period October 1, 2022 through September 30, 2023. Future expenditures for the city's MS4 program for the permit period October 1, 2023 through September 30, 2024 will also come from the City's general fund.

Table 2 – MS4 Fiscal Analysis – October 1, 2022-September 30, 2023

Administrative Cost	$2,580
Annual Report Preparation (Consultant)	$5,000
Construction Sector	$7,084
PH&F Sector Costs	$678,995
Education/Training Cost	$16,024
Litter Control Costs	$1,581,600
Monitoring, Screening, and Inspections (Consultant)	$49,300
Total:	$2,340,583

APPENDIX A

STRUCTURAL CONTROLS MAP AND LIST



Structure Number	Latitude	Longitude	Location	Description
1	33.232633	-86.805828	Pond adjacent to Lowe's parking lot to the north	Commercial detention pond
2	33.233658	-86.804912	Pond adjacent to Taco Bell drive-thru to the south	Commercial detention pond
3	33.23674	-86.803184	Pond adjacent to the south of Ruby Tuesday parking lot	Commercial detention pond
4	33.233925	-86.801435	Pond adjacent to delivery area of Bed, Bath and Beyond	Commercial detention pond
5	33.186679	-86.826276	Veteran's Park retention pond NE from Dog Park	Park retention pond
6	33.185253	-86.827309	Veteran's Park retention pond E from Dog Park	Park retention pond
7	33.184536	-86.82968	Veteran's Park retention pond SW from Dog Park	Park retention pond
8	33.23406	-86.826926	City Hall pond	Detention pond
9	33.231299	-86.835231	Residential pond located adjacent to Oleander Lane	Detention pond
10	33.183657	-86.766706	Public Works pond	Detention pond
11	33.183657	-86.766707	Veteran's Park retention pond NW from Soccer Fields	Park retention pond
12	33.233518	-86.824469	Police Station Pond	Detention pond
13	33.257789	-86.821997	Patriot Park	Detention pond
14	33.23216	-86.82709	Senior Center Park Pond	Detention pond

Alabaster
CITY UNLIMITED

Note: This map is not intended for construction.

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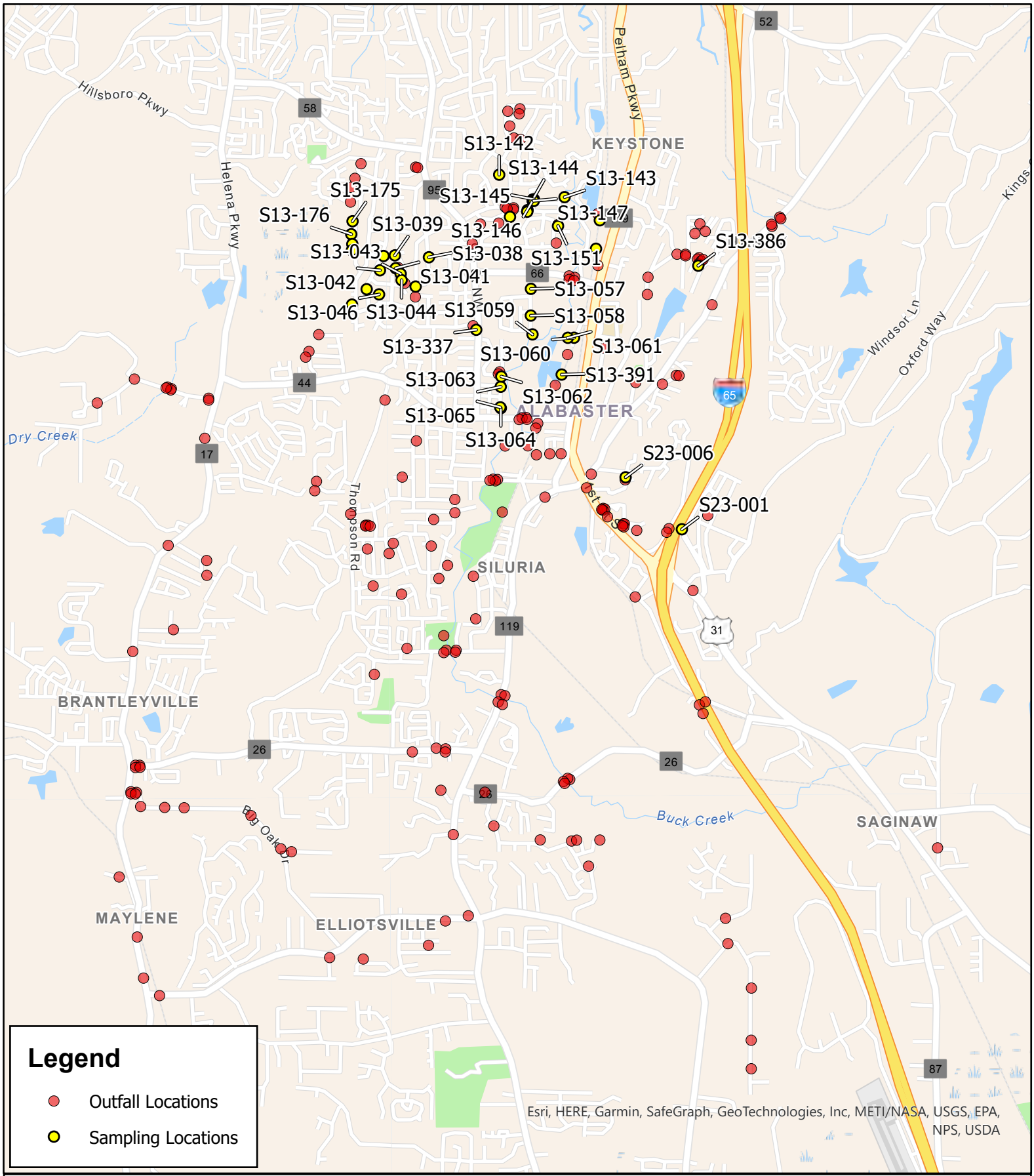
Structural Controls
Alabaster MS4 Program
Alabaster, Shelby County, Alabama

APPENDIX B

OUTFALLS LIST AND MAP



Alabaster
CITY UNLIMITED

0 4,000 8,000 Feet

1 Inch = 4,000 Feet

Note: This map is not intended for construction.

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Outfall Locations
Alabaster MS4 Program
Alabaster, Shelby County, Alabama

CITY OF ALABASTER STORMWATER MANAGEMENT PROGRAM OUTFALL LIST

OUTFALL	DATE INSPECTED	X/Y COORDINATE (UTM)		SITE DESCRIPTION AND/OR PIPE SIZE
S13-008	7/25/22	-86.86606208	33.24569972	18" RCP
S13-009	7/25/22	-86.85875106	33.24705303	Open Ditch
S13-010	7/25/22	-86.85835082	33.2469092	Open Ditch
S13-011	7/25/22	-86.85841786	33.24679937	Open Ditch
S13-012	7/25/22	-86.85889473	33.24697031	Open Ditch
S13-027	7/25/22	-86.8544814	33.24605346	Open Ditch
S13-029	7/25/22	-86.85448136	33.24588776	Open Ditch
S13-037	7/25/22	-86.86218371	33.24776737	24" RCP
S13-038		-86.83150063	33.25824654	24" RCP
S13-039		-86.83503717	33.258431	24" RCP
S13-040		-86.83621822	33.25838298	30" RCP
S13-041		-86.83470692	33.2573648	24" RCP
S13-042		-86.83659914	33.25713703	24" RCP
S13-043		-86.83445162	33.25681789	24" RCP
S13-044		-86.83401972	33.25598258	24" RCP
S13-045		-86.83293302	33.25478533	24" RCP
S13-046		-86.83670862	33.25503204	36" RCP
S13-047		-86.83799398	33.25549197	18" RCP
S13-048		-86.83952624	33.25415818	36" RCP
S13-049		-86.84299565	33.25155269	24" RCP
S13-050		-86.84402766	33.25008283	30" RCP
S13-051		-86.84437603	33.24959107	24" RCP 18" RCP
S13-052		-86.83615291	33.24580131	24" RCP
S13-053	7/21/23	-86.81636077	33.25640263	Open Ditch
S13-054	7/21/23	-86.81693565	33.25653232	Open Ditch
S13-055	7/21/23	-86.81693374	33.25622325	Open Ditch
S13-056	7/21/23	-86.81643311	33.25612084	Open Ditch
S13-057		-86.8209191	33.2554317	48" CMP
S13-058		-86.82094752	33.25309863	24" RCP
S13-059		-86.82078766	33.25145357	Open Ditch

S13-060		-86.81647279	33.25114059	30" RCP
S13-061		-86.8171169	33.25114154	24" RCP
S13-062		-86.82421858	33.24819868	48" RCP 18" RCP
S13-063		-86.82412466	33.2469031	24" RCP 14" RCP
S13-064		-86.8241284	33.2450359	24" RCP
S13-065		-86.82418468	33.24510768	18" RCP
S13-391		-86.81844589	33.24699416	Open Ditch
S13-067	7/21/23	-86.80342296	33.25805014	Open Ditch
S13-068	7/21/23	-86.80357466	33.25793115	Open Ditch
S13-069	7/21/23	-86.80321	33.25775359	Open Ditch
S13-070		-86.80347653	33.25749881	24" RCP
S13-071		-86.80570736	33.2583659	36" RCP
S13-072	7/25/22	-86.80873966	33.25637385	Open Ditch
S13-073	7/25/22	-86.80881556	33.25487033	Open Ditch
S13-074	7/25/22	-86.80210277	33.25393252	14" CMP
S13-075	7/25/22	-86.81335087	33.25020685	24" RCP
S13-076	7/25/22	-86.81008856	33.24718687	24" RCP
S13-077	7/25/22	-86.80587375	33.24778879	24" RCP
S13-078	7/25/22	-86.80557468	33.24776047	14" RCP
S13-079	7/25/22	-86.80731405	33.24703153	Open Ditch
S13-131	7/25/22	-86.80331095	33.26100667	Open Ditch
S13-132	7/25/22	-86.80275415	33.26034731	12" RCP
S13-133	7/25/22	-86.80383221	33.26015414	Open Ditch
S13-134	7/21/23	-86.80482758	33.25835376	Open Ditch
S13-135	7/21/23	-86.80482512	33.2582196	Open Ditch
S13-136	7/25/22	-86.82319617	33.2709468	24" RCP
S13-137	7/25/22	-86.82193931	33.27114644	30" RCP
S13-138	7/25/22	-86.82201824	33.27070929	18" RCP
S13-139	7/25/22	-86.82300534	33.2696506	12" RCP
S13-140	7/25/22	-86.8225817	33.26860754	18" RCP, inferred
S13-141	7/25/22	-86.82190176	33.26848542	72" RCP
S13-142		-86.82414256	33.26541453	48" RCP
S13-143		-86.81735973	33.26341847	48" RCP
S13-144		-86.82066347	33.26323184	Open Ditch

S13-145		-86.82054775	33.26324059	Open Ditch
S13-146		-86.82068213	33.26310519	Open Ditch
S13-147		-86.82056318	33.26310492	Open Ditch
S13-148		-86.82353106	33.26258123	Open Ditch
S13-149		-86.8226669	33.26250804	Open Ditch
S13-151		-86.81806283	33.26090285	12" RCP
S13-152		-86.82269004	33.26236797	Open Ditch
S13-153		-86.82334104	33.26243488	Open Ditch
S13-155		-86.82611856	33.26110288	48" elliptical
S13-156		-86.82422489	33.26118232	30" elliptical
S13-157		-86.81824844	33.25940576	30" RCP
S13-158		-86.82698073	33.2594032	24" RCP
S13-169		-86.83281938	33.26611586	Open Ditch
S13-170		-86.83261137	33.26606483	48" RCP
S13-171		-86.83849438	33.26644447	24" RCP
S13-172		-86.83913549	33.26517323	Open Channel
S13-173		-86.83952913	33.26438503	24" RCP
S13-174		-86.83961236	33.26310146	24" RCP
S13-175		-86.8394157	33.26143401	24" RCP
S13-176		-86.83955904	33.26030069	24" RCP
S13-177		-86.83945475	33.25943677	24" RCP
S13-178		-86.83950224	33.25889889	24" RCP
S13-333		-86.81392715	33.26194308	36" Steel
S13-337		-86.82694807	33.25223804	36" RCP
S13-338		-86.81393673	33.25742394	18" RCP (2)
S13-386		-86.80351215	33.25735661	24" RCP
S14-058	7/21/23	-86.79500342	33.26154583	Open Ditch
S14-059	7/21/23	-86.79489118	33.26140548	Open Ditch
S14-060	7/21/23	-86.79581674	33.26074421	Open Ditch
S14-061	7/21/23	-86.79587139	33.26092156	Open Ditch
S22-030	7/25/22	-86.77905164	33.20638726	4 x 4 Box Culvert
S23-001		-86.80269177	33.23555049	36" CMP
S23-006		-86.81124295	33.23869568	Open Ditch
S23-007	7/21/23	-86.81355643	33.23622307	Open Ditch

S23-008	7/21/23	-86.81339245	33.23616697	Open Ditch
S23-009	7/21/23	-86.81357689	33.23606063	Open Ditch
S23-010	7/21/23	-86.81371033	33.23611863	Open Ditch
S23-011		-86.81311382	33.2354854	30" CMP
S23-012		-86.81149287	33.2348595	Open Ditch
S23-013		-86.81136242	33.23485805	Open Ditch
S23-014		-86.81142934	33.23459097	Open Ditch
S23-015		-86.81156773	33.23468936	Unknown
S23-016		-86.80673743	33.23441495	Open Ditch
S23-017		-86.80697463	33.2340991	Open Ditch
S23-018		-86.80428413	33.22900427	Open Ditch
S23-019		-86.81476683	33.23921535	57" x 21" Box Culvert
S23-020		-86.81959727	33.23723539	24" RCP
S23-021		-86.81527659	33.23802333	24" RCP (2)
S23-022		-86.82029902	33.24367739	24" RCP
S23-023		-86.82050382	33.24326275	24" RCP, inferred
S23-024		-86.81788936	33.2410129	18" RCP
S23-025		-86.81907008	33.24101462	Curb Inlet
S23-026		-86.8204549	33.24093545	Curb Inlet
S23-027		-86.82134421	33.24172149	24"RCP
S23-028	7/21/23	-86.82150943	33.24419619	Open Ditch
S23-029	7/21/23	-86.82191993	33.24416905	Open Ditch
S23-030	7/21/23	-86.82222781	33.24402396	Open Ditch
S23-031	7/21/23	-86.82141268	33.24403648	Open Ditch
S23-032		-86.82370615	33.24172214	Open Ditch
S23-033	7/21/23	-86.82497524	33.2388307	12" RCP
S23-034		-86.8289636	33.23708675	24" RCP, inferred
S23-035		-86.82896586	33.23592314	24" RCP, inferred
S23-036		-86.82403866	33.23595592	Open Ditch
S23-037		-86.82976172	33.23133539	60" RCP
S23-038		-86.83067617	33.23019641	24" RCP
S23-039		-86.83291548	33.24221886	30" RCP
S23-040		-86.83441635	33.23906559	18" RCP (2)
S23-041		-86.83825009	33.23488342	Open Ditch

S23-042		-86.83800302	33.23487835	Open Ditch
S23-043		-86.83825491	33.2348093	Open Ditch
S23-044		-86.83777237	33.23479569	Open Ditch
S23-045		-86.83807958	33.23280923	48" RCP
S23-046		-86.83539383	33.23329103	48" RCP
S23-047		-86.83583097	33.23240545	24" RCP
S23-048		-86.83751343	33.22958018	30" RCP
S23-049		-86.83456604	33.22884545	24" RCP, inferred
S23-050		-86.83144273	33.23302974	36" RCP
S23-051		-86.83117801	33.23534886	48" RCP
S23-052		-86.83980711	33.23587775	36" RCP, inferred
S23-053		-86.84332742	33.23874017	36" RCP
S23-054		-86.84351737	33.23792594	36" RCP
S23-055	7/25/22	-86.85490745	33.24255968	30" RCP
S23-056	7/25/22	-86.85877637	33.23322741	24" RCP
S23-058	7/25/22	-86.85479337	33.23188709	36" CMP
S23-059	7/25/22	-86.85478005	33.2305994	42" CMP (3)
S23-061		-86.81715216	33.24967128	4 x 8 Box Culvert
S23-062		-86.8243586	33.24801292	24" RCP
S23-064		-86.83403746	33.2241059	48" RCP
S23-065		-86.83744359	33.22185821	48" CMP
S23-066	7/25/22	-86.85829016	33.22587186	42" CMP (2), 12 CMP (1)
S23-067	7/25/22	-86.86253013	33.22399572	24" RCP
S23-069	7/25/22	-86.84617	33.20642169	18" RCP
S23-070	7/25/22	-86.84727097	33.20668346	36" RCP
S23-071	7/25/22	-86.85034951	33.20959656	36" RCP
S23-072		-86.86188589	33.21405071	Open Ditch
S23-073		-86.86231166	33.21405586	Open Ditch
S23-074		-86.86232168	33.21385645	Open Ditch
S23-075		-86.86184472	33.21387541	Open Ditch
S23-076		-86.86222989	33.21168709	Open Ditch
S23-077		-86.86280626	33.21174112	Open Ditch
S23-078		-86.86279948	33.21156596	Open Ditch
S23-079		-86.86235323	33.2115515	Open Ditch

S23-080		-86.86180737	33.21044683	18" RCP
S23-081		-86.85931424	33.21035621	24" RCP
S23-082		-86.85728592	33.21031809	12" RCP
S23-083		-86.86407765	33.2043123	12" RCP
S23-084		-86.82687755	33.2266483	Open Ditch
S23-085	7/21/23	-86.82428385	33.22001352	Open Ditch
S23-086	7/21/23	-86.82389223	33.21991901	Open Ditch
S23-087	7/21/23	-86.82460033	33.21938149	Open Ditch
S23-088	7/21/23	-86.82415598	33.21916093	Open Ditch
S23-089	7/21/23	-86.83106567	33.21538546	Open Ditch
S23-090	7/21/23	-86.83354699	33.21507077	Open Ditch
S23-091	7/21/23	-86.83008158	33.21531947	Open Ditch
S23-092	7/21/23	-86.83012707	33.21504513	Open Ditch
S23-093	7/25/22	-86.80112714	33.200366	24" CMP, inferred
S23-095	7/25/22	-86.80090007	33.19815435	18" RCP
S23-098	7/25/22	-86.79848496	33.19426168	30" RCP
S23-101	7/25/22	-86.79854471	33.18970636	18" RCP
S23-102	7/25/22	-86.79855782	33.18721728	18" RCP
S23-103	7/21/23	-86.81721595	33.21257958	Open Ditch
S23-104	7/21/23	-86.81742919	33.21267409	Open Ditch
S23-105	7/21/23	-86.81787413	33.2124047	Open Ditch
S23-106	7/21/23	-86.81774721	33.21224047	Open Ditch
S23-107	7/21/23	-86.82604108	33.21151012	14" CMP
S23-108	7/25/22	-86.83060896	33.21170589	24" RCP (2)
S23-109	7/25/22	-86.82031938	33.20731471	18" CMP
S23-110	7/25/22	-86.81706498	33.20720278	18" RCP
S23-111	7/25/22	-86.8165382	33.20727461	14" RCP
S23-112	7/25/22	-86.81531509	33.2049943	48" CMP
S23-113	7/25/22	-86.81412874	33.20727138	14" RCP
S23-116		-86.8278434	33.20073332	42" elliptical
S23-117		-86.86224297	33.19906229	30" CMP
S23-118		-86.86161563	33.19547149	30" CMP
S23-120		-86.84227234	33.19716198	30" RCP
S23-121		-86.83878086	33.19701734	36" RCP

S23-124		-86.83022371	33.20029457	14" CMP
S23-128		-86.83199392	33.19817744	40" CMP elliptical
S23-132	7/21/23	-86.82451411	33.23880303	Open Ditch
S23-133	7/21/23	-86.82473722	33.23868555	Open Ditch
S23-134	7/21/23	-86.82530601	33.23872249	Open Ditch
S23-138	7/21/23	-86.83021017	33.2251997	40" CMP ellipitcal
S23-139	7/21/23	-86.82994965	33.22393148	Open Ditch
S23-140	7/21/23	-86.82892959	33.22392158	Open Ditch
S23-141	7/21/23	-86.83021354	33.22372158	Open Ditch
S23-142	7/21/23	-86.82902046	33.22375237	Open Ditch
S23-146	7/21/23	-86.82934984	33.20783236	36" x 30" Box Culvert
S23-147		-86.82513244	33.20856476	42" CMP
S23-148		-86.85996274	33.19393323	24" RCP
S23-149	7/21/23	-86.80369496	33.2190134	Open Ditch
S23-150	7/21/23	-86.80307671	33.21927667	Open Ditch
S23-151	7/21/23	-86.80332086	33.21825728	Open Ditch
S23-154		-86.81029002	33.2284725	24" x 36" Box Culvert
S23-155		-86.82709069	33.23037114	18" RCP, inferred
S23-177		-86.81008418	33.23427858	24" RCP
S13-066	7/21/23	-86.80300575	33.25788782	Open Ditch
S13-159		-86.81805807	33.26102677	

Highlighted Row indicates inspection site included in report but not list

LEGEND

YEAR 1
YEAR 2
YEAR 3
YEAR 4
YEAR 5

APPENDIX C

SANITARY SEWER OVERFLOW REPORTS

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.4

(Submission #: HPY-ZM57-A5VTS, version 1)

Details

Submission Alias	NPDES Sanitary Sewer Overflow (SSO) Event Report
SSO ID	SSO-00211051
Submission ID	HPY-ZM57-A5VTS
Status	In Process

Form Input

General Instructions

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of “Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:
Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?
No

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?
Yes

Permittee Information

Permit Number
AL0025828

Permittee
City of Alabaster

Facility/Site Information

Facility Name
Alabaster WWTP

Facility County
Shelby

Assigned SSO ID

Assigned SSO ID
SSO-00211051

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
11/06/2023	10:30 am

Is the SSO on-going?
No

Date/Time SSO Event Stopped:

Date	Time
11/06/2023	10:45 am

Did the SSO occur during wet weather?
No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?
No

Report Estimated Volume Discharged as
Range

Estimated Volume Discharged (Range)
<=1,000 gal

Indicate source of discharge event
Broken Line

County in which SSO occurred (check all that apply)
Shelby

Note
For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):
Map Help link

Latitude/Longitude of discharge
33.224443,-86.864381

Note
Please specify either the street address or location description for the discharge

Street Address
8568 HWY 17

City
Alabaster

State
AL

ZIP Code
35007

Location Description
Pump station 28

Known or suspected cause of the discharge
Broken pipe on backup pump.

Destination of discharge
Ground Absorbed

Did the discharge reach a designated swimming water?
No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:
Not Performed

Was the affected area cleaned?
Yes

Was the affected area disinfected?
Yes

Are you aware of any other potential health or environmental impacts?
No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.
Repaired broken pipe on backup pump, Cleaned and disinfected area.

Please attach supporting information, if applicable:
NONE PROVIDED
Comment
NONE PROVIDED

Indicate efforts to notify public (check all that apply):
Placement of Signs

Date signs were placed:
11/06/2023

Indicate Other Officials Notified (check all that apply):
County Health Department

County Health Department notification date:
11/07/2023

Other States notified:
NONE PROVIDED

Were any public water supply intake locations affected?
No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

NONE PROVIDED

Status History

	User	Processing Status
11/7/2023 8:53:39 AM	Larry Marasckin	Draft
11/7/2023 9:24:49 AM	Larry Marasckin	Submitting
11/7/2023 9:24:49 AM	Larry Marasckin	Signing
11/7/2023 9:27:16 AM	Larry Marasckin	Submitted
11/7/2023 9:27:18 AM	Larry Marasckin	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- [x] I am the owner of the account used to perform the electronic submission and signature.
- [x] I have the authority to submit the data on behalf of the facility I am representing.
- [x] I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- [x] I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By Larry Marasckin on 11/07/2023 at 9:24 AM

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.4

(Submission #: HPT-RF0E-9N0PT, version 1)

Details

Submission Alias	NPDES Sanitary Sewer Overflow (SSO) Event Report
SSO ID	SSO-00210345
Submission ID	HPT-RF0E-9N0PT
Status	In Process

Form Input

General Instructions

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of “Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:
Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?
No

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?
Yes

Permittee Information

Permit Number
AL0025828

Permittee
City of Alabaster

Facility/Site Information

Facility Name
Alabaster WWTP

Facility County
Shelby

Assigned SSO ID

Assigned SSO ID
SSO-00210345

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
05/18/2023	11:50 am

Is the SSO on-going?
No

Date/Time SSO Event Stopped:

Date	Time
05/18/2023	12:30 pm

Did the SSO occur during wet weather?
No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?
No

Report Estimated Volume Discharged as
Range

Estimated Volume Discharged (Range)
<=1,000 gal

Indicate source of discharge event
Manhole

County in which SSO occurred (check all that apply)
Shelby

Note
For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):
Map Help link

Latitude/Longitude of discharge
33.19026,-86.765815

Note
Please specify either the street address or location description for the discharge

Street Address
1980 Hwy 31

City
Alabaster

State
AL

ZIP Code
35007

Location Description
NONE PROVIDED

Known or suspected cause of the discharge
Manhole, Power Company drilled through gravity line.

Destination of discharge
Ground Absorbed

Did the discharge reach a designated swimming water?
No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:
Not Performed

Was the affected area cleaned?
Yes

Was the affected area disinfected?
Yes

Are you aware of any other potential health or environmental impacts?
No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.
Exposed gravity line and repaired line. Jetted and cleaned gravity line.

Please attach supporting information, if applicable:
NONE PROVIDED
Comment
NONE PROVIDED

Indicate efforts to notify public (check all that apply):
Placement of Signs

Date signs were placed:
05/18/2023

Indicate Other Officials Notified (check all that apply):
County Health Department

County Health Department notification date:
05/19/2023

Other States notified:
NONE PROVIDED

Were any public water supply intake locations affected?
No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

NONE PROVIDED

Status History

	User	Processing Status
5/19/2023 9:48:36 AM	Larry Marasckin	Draft
5/19/2023 10:07:49 AM	Larry Marasckin	Signing
5/19/2023 10:07:49 AM	Larry Marasckin	Submitting
5/19/2023 10:08:46 AM	Larry Marasckin	Submitted
5/19/2023 10:09:14 AM	Larry Marasckin	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- [x] I am the owner of the account used to perform the electronic submission and signature.
- [x] I have the authority to submit the data on behalf of the facility I am representing.
- [x] I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- [x] I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By Larry Marasckin on 05/19/2023 at 10:07 AM

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.4

(Submission #: HPS-BTE3-N13EC, version 1)

Details

Submission Alias	NPDES Sanitary Sewer Overflow (SSO) Event Report
SSO ID	SSO-00210057
Submission ID	HPS-BTE3-N13EC
Status	In Process

Form Input

General Instructions

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of “Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:
Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?
No

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?
Yes

Permittee Information

Permit Number
AL0025828

Permittee
City of Alabaster

Facility/Site Information

Facility Name
Alabaster WWTP

Facility County
Shelby

Assigned SSO ID

Assigned SSO ID
SSO-00210057

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
03/23/2023	06:00 am

Is the SSO on-going?
No

Date/Time SSO Event Stopped:

Date	Time
03/23/2023	07:15 am

Did the SSO occur during wet weather?
No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?
No

Report Estimated Volume Discharged as
Range

Estimated Volume Discharged (Range)
<=1,000 gal

Indicate source of discharge event
Manhole

County in which SSO occurred (check all that apply)
Shelby

Note
For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):
Map Help link

Latitude/Longitude of discharge
33.251910083356194,-86.80107551279454

Note
Please specify either the street address or location description for the discharge

Street Address
short dr

City
Alabaster

State
AL

ZIP Code
35007

Location Description
Manhole in woods

Known or suspected cause of the discharge
control and float failure

Destination of discharge
Ground Absorbed

Did the discharge reach a designated swimming water?
No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:
Not Performed

Was the affected area cleaned?
Yes

Was the affected area disinfected?
Yes

Are you aware of any other potential health or environmental impacts?
No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.
Bypass wet well module. floats are now going straight to mission unit. This station will now be checked every two to three days to ensure proper operation.

Please attach supporting information, if applicable:

> NONE PROVIDED
> **Comment**
> NONE PROVIDED

Indicate efforts to notify public (check all that apply):
Placement of Signs

Date signs were placed:
03/23/2023

Indicate Other Officials Notified (check all that apply):
County Health Department

County Health Department notification date:
03/23/2023

Other States notified:
NONE PROVIDED

Were any public water supply intake locations affected?
No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

NONE PROVIDED

Status History

	User	Processing Status
3/23/2023 2:19:32 PM	Larry Marasckin	Draft
3/23/2023 2:45:31 PM	Larry Marasckin	Submitting
3/23/2023 2:45:31 PM	Larry Marasckin	Signing
3/23/2023 2:48:01 PM	Larry Marasckin	Submitted
3/23/2023 2:48:07 PM	Larry Marasckin	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- [x] I am the owner of the account used to perform the electronic submission and signature.
- [x] I have the authority to submit the data on behalf of the facility I am representing.
- [x] I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- [x] I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By Larry Marasckin on 03/23/2023 at 2:19 PM

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.3

(Submission #: HPR-3JZM-5JRA3, version 1)

Details

Submission Alias	NPDES Sanitary Sewer Overflow (SSO) Event Report
SSO ID	SSO-00209880
Submission ID	HPR-3JZM-5JRA3
Status	In Process

Form Input

General Instructions

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of “Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:
Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?
No

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?
Yes

Permittee Information

Permit Number
AL0025828

Permittee
City of Alabaster

Facility/Site Information

Facility Name
Alabaster WWTP

Facility County
Shelby

Assigned SSO ID

Assigned SSO ID
SSO-00209880

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
01/30/2023	07:14 pm

Is the SSO on-going?
No

Date/Time SSO Event Stopped:

Date	Time
01/30/2023	08:05 pm

Did the SSO occur during wet weather?
No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?
No

Report Estimated Volume Discharged as
Range

Estimated Volume Discharged (Range)
<=1,000 gal

Indicate source of discharge event
Manhole

County in which SSO occurred (check all that apply)
Shelby

Note
For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):
Map Help link

Latitude/Longitude of discharge
33.263970,-86.826110

Note
Please specify either the street address or location description for the discharge

Street Address
1457 Alexander Court

City
Alabaster

State
AL

ZIP Code
35007

Location Description
Manhole

Known or suspected cause of the discharge
Grease and debris, clogged line.

Destination of discharge
Ground Absorbed

Did the discharge reach a designated swimming water?
No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:
Not Performed

Was the affected area cleaned?
Yes

Was the affected area disinfected?
Yes

Are you aware of any other potential health or environmental impacts?
No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.
Cleaned and jetted, camera line. Cleaned and disinfected area.

Please attach supporting information, if applicable:
NONE PROVIDED
Comment
NONE PROVIDED

Indicate efforts to notify public (check all that apply):
Placement of Signs

Date signs were placed:
01/30/2023

Indicate Other Officials Notified (check all that apply):
County Health Department

County Health Department notification date:
01/31/2023

Other States notified:
NONE PROVIDED

Were any public water supply intake locations affected?
No

Additional Attachments

Additional Attachments

NONE PROVIDED

Comment

NONE PROVIDED

General Comments

General Comments (Optional)

NONE PROVIDED

Status History

	User	Processing Status
1/31/2023 8:31:59 AM	Larry Marasckin	Draft
1/31/2023 8:47:20 AM	Larry Marasckin	Submitting
1/31/2023 8:47:20 AM	Larry Marasckin	Signing
1/31/2023 8:50:31 AM	Larry Marasckin	Submitted
1/31/2023 8:50:35 AM	Larry Marasckin	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- [x] I am the owner of the account used to perform the electronic submission and signature.
- [x] I have the authority to submit the data on behalf of the facility I am representing.
- [x] I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- [x] I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By Larry Marasckin on 01/31/2023 at 8:32 AM

NPDES Sanitary Sewer Overflow (SSO) Event Reporting Form

version 1.4

(Submission #: HPZ-QDC8-D8YC3, version 1)

Details

Submission Alias	NPDES Sanitary Sewer Overflow (SSO) Event Report
SSO ID	SSO-00211052
Submission ID	HPZ-QDC8-D8YC3
Status	In Process

Form Input

General Instructions

Processing

NOTE: You should choose the correct status for this SSO notification/report EACH time you submit a notification/report.

If you are able to complete all of the information in the first submittal, please indicate the status of “Submit both the Initial 24-hour notification and 5-day report concurrently."

Indicate which of the following describes the status of this SSO notification/report:
Submit both the Initial 24-hour notification and 5-day report concurrently

Prior to submitting this notification/report through AEPACS, did you make the first notification of this SSO to the Department by a method other than AEPACS (e.g. SSO Hotline, Fax, Email)?
No

Regardless of the notification method used to first notify the Department of this SSO event (i.e. AEPACS, SSO hotline, fax, etc), was the initial notification made to the Department within 24 hours of becoming aware of the event?
Yes

Permittee Information

Permit Number
AL0025828

Permittee
City of Alabaster

Facility/Site Information

Facility Name
Alabaster WWTP

Facility County
Shelby

Assigned SSO ID

Assigned SSO ID
SSO-00211052

SSO Event - Information

Date/Time SSO Event Started:

Date	Time
12/07/2023	07:45 am

Is the SSO on-going?
No

Date/Time SSO Event Stopped:

Date	Time
12/07/2023	08:55 am

Did the SSO occur during wet weather?
No

Was the SSO caused by an extreme weather event (e.g. hurricane) that flooded the ENTIRE sewer system?
No

Report Estimated Volume Discharged as
Range

Estimated Volume Discharged (Range)
<=1,000 gal

Indicate source of discharge event
Manhole

County in which SSO occurred (check all that apply)
Shelby

Note
For detailed information on how to place a point on the map, please click the Map Help link below. Also, when reporting for an SSO(s) caused by an extreme weather event, please specify a general location for the SSO(s):
Map Help link

Latitude/Longitude of discharge
33.25152732324616,-86.82427929450024

Note
Please specify either the street address or location description for the discharge

Street Address
719 Old Town circle

City
Alabaster

State
AL

ZIP Code
35007

Location Description
Manhole north west side of fence.

Known or suspected cause of the discharge
Grease and rags from nursing home.

Destination of discharge
Ground Absorbed

Did the discharge reach a designated swimming water?
No

Monitoring of the receiving water (i.e. visual survey or water quality sampling) is:
Not Performed

Was the affected area cleaned?
Yes

Was the affected area disinfected?
Yes

Are you aware of any other potential health or environmental impacts?
No

SSO Event - Corrective Action

Describe corrective actions taken, plans to eliminate future discharges, and actions or plans to mitigate impacts to the environment and/or public health.
Jetted out line, cleaned and disinfected area. Implementing FOG first of 2024.

Please attach supporting information, if applicable:
NONE PROVIDED
Comment
NONE PROVIDED

Indicate efforts to notify public (check all that apply):
Placement of Signs

Date signs were placed:
12/07/2023

Indicate Other Officials Notified (check all that apply):
County Health Department

County Health Department notification date:
12/07/2023

Other States notified:
NONE PROVIDED

Were any public water supply intake locations affected?
No

Additional Attachments

Additional Attachments
NONE PROVIDED
Comment
NONE PROVIDED

General Comments

General Comments (Optional)
NONE PROVIDED

Status History

	User	Processing Status
12/7/2023 3:25:43 PM	Larry Marasckin	Draft
12/7/2023 3:34:42 PM	Larry Marasckin	Submitting
12/7/2023 3:34:42 PM	Larry Marasckin	Signing
12/7/2023 3:37:31 PM	Larry Marasckin	Submitted
12/7/2023 3:37:39 PM	Larry Marasckin	In Process

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- [x] I am the owner of the account used to perform the electronic submission and signature.
- [x] I have the authority to submit the data on behalf of the facility I am representing.
- [x] I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- [x] I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

I certify that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information to be true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Signed By Larry Marasckin on 12/07/2023 at 3:34 PM

APPENDIX D

POST CONSTRUCTION PRIVATELY OWNED STRUCTURAL CONTROLS LIST

Permite Number	Permitee Name	Owner Address
19–00808	CIE Wire & Cable	100 Wire Way
21-00046	Premier Family Dentistry	10090 Highway 119
17-01366	Mike Mooney Construction	104 Preserve Circle
19-01121	Dunkin Donuts	1114 1st Street North
16-00031	Sunbelt Paper and Packaging	113 Airpark Industrial Road
18–01317	Wesley Guy State Farm	1208 1st Avenue North
18–00399	Alabama Plumbing Contractors	1215 Shelby West Parkway
22-07074	Chick-fil-a	125 Colonial Promenade Parkway
18–00560	Alabama Crown	1330 Corporate Woods Drive
	H&H Trucking	136 Airpark Industrial Road
17-00743	KSB Enterprises & Ross Investments	159 Airpark Industrial Road
21-00239	Sutton Engineering	160 Airpark Industrial Road
21-00422	Cobb Underground	183 Airpark Industrial Road
14-01108	Penske	185 Airpark Industrial Road
20-01453	MacLean Power	1909 Highway 87
06-01454	Kent Farms Commercial Complex Pond 1	200 Kent Stone Boulevard
	Kent Farms Commercial Complex Pond 2	200 Kent Stone Boulevard
15-00678	Kent Farms Commercial Complex Pond 3	40 Kent Stone Way
22-00110	White Stone Retail Complex	2170 Kent Dairy Road
19-01029	Kent Farms Animal Hospital Pond 1	2259 Kent Dairy Road
19-01029	Kent Farms Animal Hospital Pond 2	2259 Kent Dairy Road
21-00201	Equipment Share	281 Commercial Court
18–01445	Urology Centers Of Alabama	408 1st Street North
20-01769	RaceTrac	550 Highway 31
17–00584	Office/Warehouse	600 Galloway Circle
17–00585		601 Galloway Circle
17–00586		604 Galloway Circle
17–00587		608 Galloway Circle
16-00703	Alabaster Landing	634 First Street North
19-00758	Alabaster Self Storage - Lumpkin	7823 Highway 119
16-00392	ECO Credit Union	791 4th Place Southwest
14-01107	Walmart Neighborhood Market	9085 Highway 119
22-00949	Fast Pace Urgent Care	9149 Highway 119
18-01408	Gamble Holdings - Carwash	916 1st Street South
17–01164	Maylene "C" Store	9200 Highway 17
18–00396	Warrior Express Convenience Store	9970 Highway 119
-----	Enclave Subdivision	Ramsgate Drive
20-02012	Dawson's Cove Pond	Smokey Road
20-02012	Dawson's Cove Swale 1	Smokey Road
20-02012	Dawson's Cove Swale 2	Smokey Road
20-02012	Dawson's Cove Swale 3	Smokey Road
20-02012	Dawson's Cove Swale 4	Smokey Road
-----	Mallard Landing Pond 1	Smokey Road
	Mallard Landing Pond 2	Smokey Road
	Mallard Landing Pond 3	Smokey Road
	Mallard Landing Grass Swale	Smokey Road
	Mallard Landing Ditch Check	Smokey Road

Post-Construction Stormwater BMP Annual Inspection Form

City of Alabaster Review:
Reviewed by: _____ Date: _____
Comments: ☐ Approved ☐ Incomplete ☐ Other: _____
Required Attachments: ☐ Photographs ☐ Maintenance Summary

Owner Information: Date:
Facility Contact: _____
Company / HOA: _____
Address: _____
City: Alabaster State: AL Zip Code: 35007
Phone: _____ Email: _____

Development Information:
Facility / Site Name _____
Facility Street Address or Location: _____
Latitude & Longitude: _____

BMP Information:

BMP Type: ☐ Detention ☐ Retention ☐ Underground
☐ Swale: ☐ Other:
Attachments: ☐ Photographs ☐ Maintenance Summary

Inspection Date & Time: _____
Inspection Observations:

	N/A	Yes	No
1. Poor vegetation and ground cover?		☐	☐
2. Excessive trash accumulation?		☐	☐
3. Riser and trash rack:	☐		
a. Clogged or obstructed?		☐	☐
b. Damaged?		☐	☐
4. Emergency spillway:	☐		
a. Clogged or obstructed?		☐	☐
b. Damaged?		☐	☐
5. Outfall:	☐		
a. Clogged or obstructed?		☐	☐
b. Damaged?		☐	☐
6. Excessive sediment accumulation?		☐	☐
7. LID BMP's require maintenance?	☐	☐	☐

Follow-up Actions:
☐ No follow-up actions are required ☐ Deficiencies noted and maintenance required

_____ ☐cu yards ☐tons of sediment removed _____ ☐bags ☐tons of trashed

Inspection Summary:

Inspector(s):

Signature: Casey Nowell

Print: Casey Nowell, MS

Company: Volkert Inc.

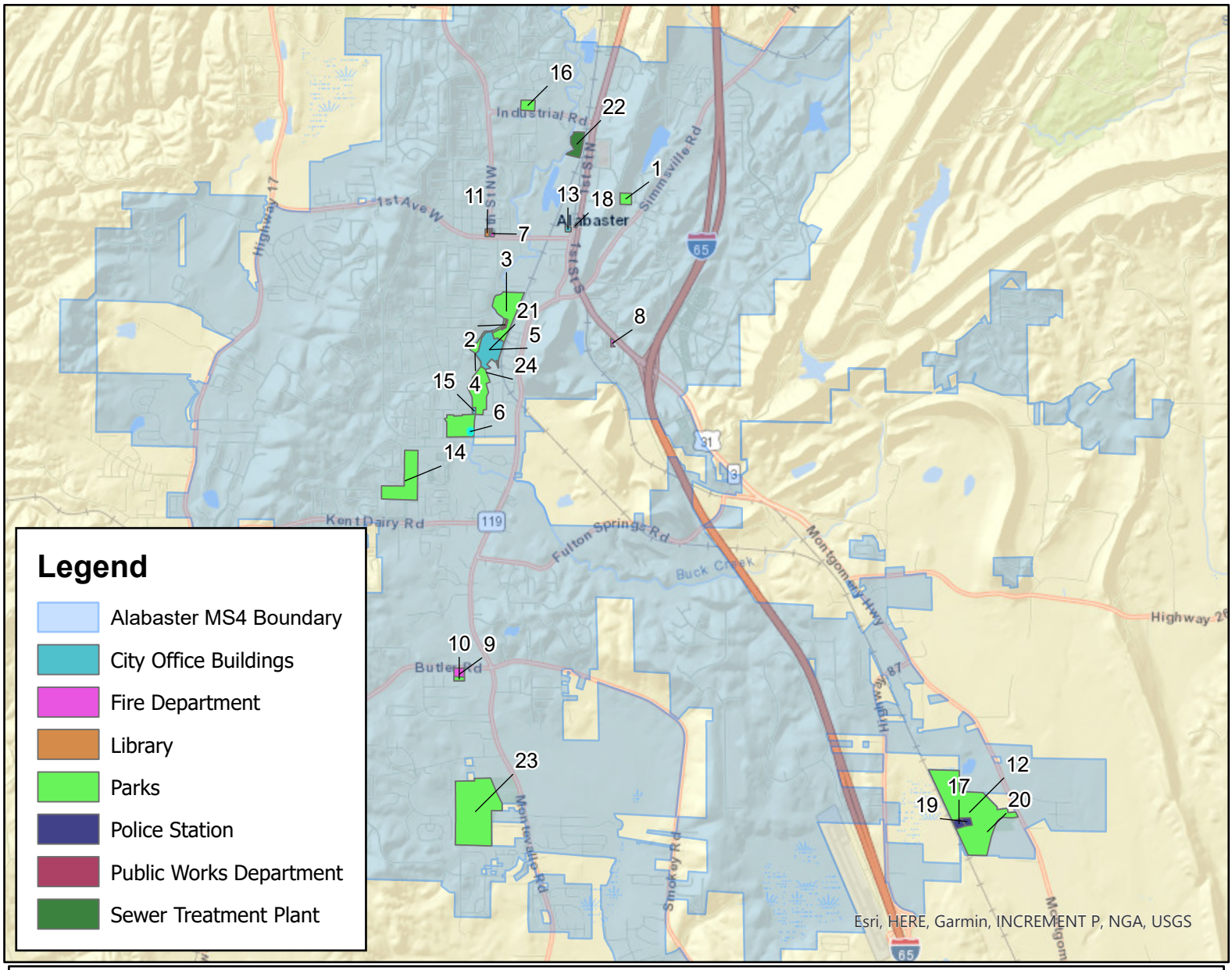
Address: 1616 2nd Avenue South
Birmingham, AL, 35233

Email: Casey.Nowell@volkert.com

Phone: 205-515-5755

APPENDIX E

MUNICIPAL FACILITIES MAP AND INSPECTION SUMMARY



Facility	Date	Number
Abbey Wooley	8/9/2022	1
Buck Creek Maintenance Shop	8/9/2022	2
Buck Creek Park	8/9/2022	3
Buck Creek Trail	8/9/2022	4
City Hall	8/9/2022	5
Depot	8/9/2022	6
Fire Station #1	8/9/2022	7
Fire Station #2	8/9/2022	8
Fire Station #3	8/9/2022	9
Heroes Park	8/9/2022	10
Library	8/9/2022	11
Limestone Park	8/9/2022	12

Facility	Date	Number
Police Municipal Annex	8/9/2022	13
Municipal Park	8/9/2022	14
Parks and Rec Building	8/9/2022	15
Patriot Park	8/9/2022	16
PD Firing Range	8/9/2022	17
Police Station	8/9/2022	18
Police Training Limestone	8/9/2022	19
Public Works	8/9/2022	20
Senior Center	8/9/2022	21
Sewer Plant	8/9/2022	22
Veterans Park	8/9/2022	23
Warrior Park	8/9/2022	24

Alabaster
CITY UNLIMITED

Note: This map is not intended for construction.

N

Municipal Facilities
Alabaster MS4 Program
Alabaster, Shelby County, Alabama

Municipal Facilities Inspections Summary

Facility	Inspection Date	Remedial Action	Recommendations
Abbey Wooley	9/6/2023	N/A	N/A
Buck Creek Maintenance Shop	9/6/2023	Leaking oil, exposed washing supplies, leaking fuel area, exposed/open trash cans	Add oil absorption pads under stored equipment that is leaking, move washing supplies under awning, have fuel station inspected for leaks, close trash cans
Buck Creek Park	9/6/2023	N/A	N/A
Buck Creek Trail	9/6/2023	N/A	N/A
City Hall	9/6/2023	N/A	N/A
Depot	9/6/2023	N/A	N/A
Fire Station #1	9/6/2023	N/A	N/A
Fire Station #2	9/6/2023	N/A	N/A
Fire Station #3	9/6/2023	N/A	N/A
Heroes Park	9/6/2023	N/A	N/A
Library	9/6/2023	N/A	N/A
Limestone Park	9/6/2023	N/A	N/A
Police Municipal Annex	9/6/2023	Tires exposed to the elements	Remove exposed tires or place under cover
Municipal Park	9/6/2023	N/A	N/A
Parks and Rec Building	9/6/2023	Open trash can	Close trash can
Patriot Park	9/6/2023	N/A	N/A
PD Firing Range	9/6/2023	Decomposing cars with leaking oil	Remove cars from site or remove mechanical components of vehicle containing oil
Police Station	9/6/2023	Exposed car washing supplies to elements and gas can	Place car washing supplies inside and remove gas can
Police Training Limestone	9/6/2023	Open trash can	Replace trash can
Public Works	9/6/2023	Dumpsters open, exposed hydraulic fluids, leaking tractors, oil spots on ground	Close trash cans, move hydraulic fluids to be covered under awning, place oil absorption pad under leaking equipment
Senior Center	9/6/2023	N/A	N/A
Sewer Plant	9/6/2023	Chemical container not in containment area	Move chemical container to containment area
Veteran’s Park	9/6/2023	Exposed containers of sealant	Remove sealant from site or store inside
Warrior Park	9/6/2023	N/A	N/A

APPENDIX F

INDUSTRIAL FACILITIES LIST

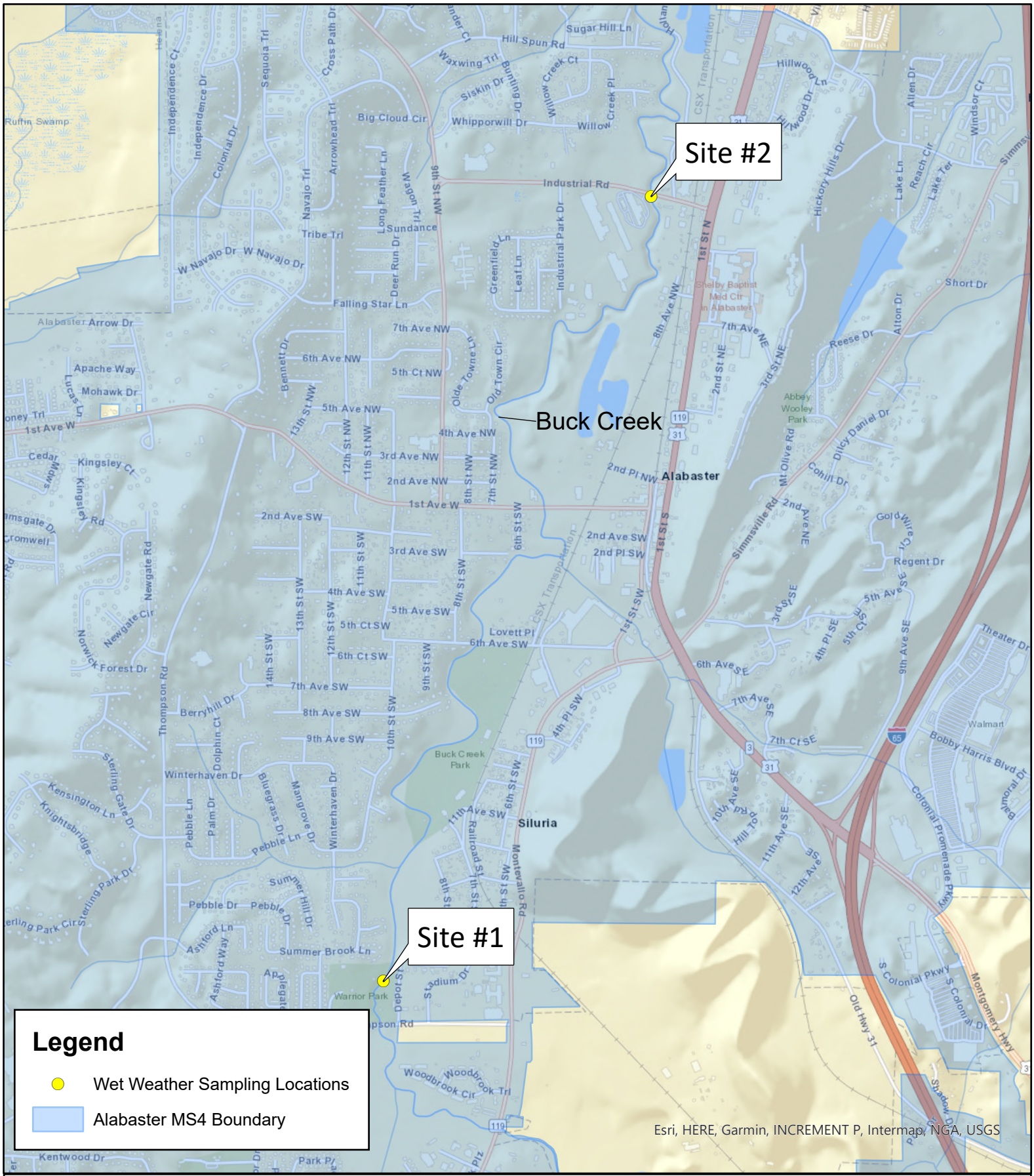
City of Alabaster Industrial Facilities Inventory

Facility	Address	Latitude, Longitude	Permit #	Notes
AGC Automotive Alabama, INC.	101 Total Solutions Way	33.18986, -86.78932	ALG230057	Permit active, expires 9/30/27
Andress Engineering Associates, Inc.	131 Airpark Industrial Road	33.19741, -86.78479	ALR000016758	SQC, Uand oil activities
Bama Concrete	2180 Highway 87	33.192778, -86.782222	ALG110115	Permit active, expires 8/31/27
Barron Fan Technology, Inc.	301 Industrial Road	33.256501, -86.817739	ALG120438	Permit active, expires 9/30/22
Deshazo Crane Company	190 Airpark Industrial Road	33.20289, -86.78533	ALG120753	Permit active, expires 9/30/27
Ebox Inc.	101 Airpark Industrial	33.19658, -86.78016	ALR00005363	
Kirkpatrick Concrete Alabaster Plant	1180 Fulton Springs Road	33.213889, -86.815000	ALG110266	Permit active, expires 8/31/27
Lhoist North America of Alabama LLC	404 1st Avenue West	33.245050, -86.821100	AL0024473	Active Permit, expires 4.30.28
Maclean Cleaning System	1909 Highway 87	33.190783, -86.780799	ALG120469	Permit active, expires 9.30.22
Magnum Products	166 Longview Circle	33.198243, -86.777358	TRI Facility , ALR000034264	Sheetrock oil manufacturer
Mitchell Concrete Specialities LLC	499 Highway 31 South	33.220556, -86.7975	ALG110108	Permit active, expires 8/31/2027
Progressive Finishes, Inc.	501 Industrial Road	33.256817, -86.820695	IU365900321	Permit active, expires 7.31.2026
Rio Stone Group LLC	245 Scotland Drive	33.186386, -86.758232	ALG230082	Active Permit
Saginaw Recycling LLC	22 Shady Acre Lane	33.217282, -86.798108	ALG180663	Active Permit
Sealing Equipment Products Company	123 Airpark Industrial Road	33.196268, -86.784031	ALR000010405	SQC, Used oil activities
Shelby Baptist Medical Center	1000 1st St N	33.254469, -86.814107	ALR000051441	RCRA regulated
Shelby Concrete - Alabaster	2260 County Road 87	33.194889, -86.778114	ALG110477	Permit active, expires 08/31/2022
Specification Rubber Products, Inc.	1568 1st Street North	33.263039, -86.810290	ALG200029	Permit active, expires 9/30/27
Spectrum Industrial Services Inc.	125 Spectrum Cove	33.197612, -86.78292	ALR000044743	
Supreme Cores Alabama, Inc.	2595 Highway 87	33.200328, -86.778988	ALG230061	Permit active, expires 9/30/27
Thompson Tractor Company, Inc.	2070 Corporate Woods Drive	33.193824, -86.786637	ALR000039362	Used oil activities
Unified Design and Manufacturing	147 Airpark Industrial Road	33.199364, -86.785249		
UPS Shelby	180 Airview Lane	33.191679, -86.789955	ALG141086	Permit active, expires 9/30/2022

Green = Active permit
Yellow = Need to inspect
Red = No renewed permit, needs inspection

APPENDIX G

WET-WEATHER MONITORING INFORMATION



Alabaster
CITY UNLIMITED

0 1,750 3,500 Feet

1 Inch = 1,750 Feet

N

Note: This map is not intended for construction.

Wet Weather Sampling Locations
Alabaster MS4 Program
Alabaster, Shelby County, Alabama

STILLBROOK

Environmental Testing Laboratory, Inc.

302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 45876

Client: Mr. Casey Nowell
Volkert, Inc.
1616 2nd Avenue South
Birmingham, AL 35226

Date: October 20, 2022

Project Name: Alabaster MS4
Project Number: N/A
Project Location: Alabaster
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Casey Nowell
Date Collected: October 12, 2022
Test Method: "Standard Methods for the Examination of Water and Wastewater", 20th Edition.
"Hach".
"Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83; 821/B-94-0046/4-95.

WATER AND WASTEWATER ASSAYS

Lab I.D.:	111876	111877		Detection	Method	Date	Time	Lab
Field I.D.:	Site #1	Site #2		Limit/Units	Reference	Analyzed	Analyzed	Analyst
PARAMETERS				D.L./UNITS	NUMBER	DATE	TIME	ANALYST
Ammonia as N	BDL	BDL		0.1 mg/L	4500NH3-C	17-Oct-22	1400	MD
BOD-5day	BDL	BDL		1 mg/L	5210B	14 thru 19-Oct-22	1030	MD
COD	11	17		5 mg/L	5220D	18-Oct-22	1630	MD
E-Coli	370	410		1 Colony/ 100 mL	mColiBlue24	12 thru 13-Oct-22	1500	MD
Fecal Coliform	580	710		1 Colony/ 100 mL	9222	12 thru 13-Oct-22	1500	MD
Conductivity	250	390		10 umhos/cm	2510B	14-Oct-22	1300	MD
TKN	1.3	1.5		0.1 mg/L	4500NH3-C	17-Oct-22	1000	MD
Total Nitrogen	2.1	7.3		0.1 mg/L	4500NH3-C & 4110B	17-Oct-22	1000	MD
Total Phosphorus	BDL	0.06		0.02 mg/L	4500P-E	13-Oct-22	1500	MD
NO2+NO3, Total as N	0.75	5.83		0.02 mg/L	4110B	14-Oct-22	0930	MD
TDS	272	368		1 mg/L	2540C	18-Oct-22	1100	MD
TSS	24	18		1 mg/L	2540D	14-Oct-22	1600	MD
Turbidity	16.2	38.4		0.01 NTU	2130B	13-Oct-22	1630	MD
Hardness as CaCO3	250	455		0.02 mg/L	2340B	17-Oct-22	1430	MD
Oil & Grease	BDL	BDL		0.5 mg/L	1664	17-Oct-22	1600	MD

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

ADEM Laboratory Certification I.D.# 40710

STILLBROOK

CHAIN OF CUSTODY

LAB INVOICE # 45876

Environmental Testing Laboratory, Inc.

SHIPPING #: _____

302 Crawford Street Fairfield, AL 35064 Phone: 205-788-1750 FAX: 205-788-1747

CLIENT: Volkert
Casey Nowell

Date Results Needed: Normal turn around time

Send Invoice to:

Special Instructions:

Phone Results to: _____ at ____-____

FAX Results to: _____ at ____-____

Contact: Phone:

SAMPLE IDENTIFICATION

PROJECT NAME: Alabaster MS4

PROJECT LOC: Alabaster

PROJECT #:

P.O. #:

SAMPLER: Casey Nowell

SAMPLE DATE: 10-12

PARAMETERS

BOD, COD, E.coli, F. coli, Cond., TKN, TN, TP, NO_2+NO_3 N, TDS, TSS, Turb., Hardness, Oil & Grease

LAB I.D.	FIELD I.D.	MATRIX	DATE	TIME	# BTL	
111876	#1	H_2O	10-12	11:50	4	✓ ✓ ✓
111877	#2	H_2O	10-12	11:45	4	✓ ✓ ✓

Indicate Preservative: Metals use HNO_3 Nitric Acid

BTEX use HCL Hydrochloric Acid + 0.008% Sodium Thiosulfate

Semi-Vol Organics or Coliforms/Fecal Strep use 0.008% Sodium Thiosulfate.

H_2SO_4 Sulfuric Acid Sulfide use Zinc Acetate

CN use NaOH Sodium Hydroxide &--if needed Ascorbic Acid

Sample Preservative & Container

Indicate Sample Bottle Type: Glass (Plastic) VOC Vial

Special Note:

RELINQUISHED BY	DATE/TIME	***RECEIVED BY***
SIGNATURE: Casey Nowell	Date: 10-12	*SIGNATURE:* Mark Davis
PRINT NAME: Casey Nowell	Time(24hr) 13:46	*PRINT NAME:* Mark Davis
RELINQUISHED BY	DATE/TIME	***RECEIVED BY***
SIGNATURE:	Date:	*SIGNATURE:*
PRINT NAME:	Time(24hr)	*PRINT NAME:*

In the event of default on charges for above services, customer agrees to pay all costs of collection, including a reasonable attorney's fee.

STILLBROOK

Environmental Testing Laboratory, Inc.
302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 46302

Client: Mr. Casey Nowell
Volkert, Inc.
1616 2nd Avenue South
Birmingham, AL 35226

Date: March 15, 2023

Project Name: Alabaster MS4
Project Number: N/A
Project Location: Alabaster
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Casey Nowell
Date Collected: N/A
Test Method: "Standard Methods for the Examination of Water and Wastewater", 20th Edition.
"Hach".
"Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83; 821/B-94-0046/4-95.

WATER AND WASTEWATER ASSAYS

Lab I.D.:	112702	112703		Detection Limit/Units	Method Reference	Date Analyzed	Time Analyzed	Lab Analyst
Field I.D.:	Site #1	Site #2						
PARAMETERS				D.L./UNITS	NUMBER	DATE	TIME	ANALYST
Ammonia as N	BDL	BDL		0.1 mg/L	4500NH3-C	7-Mar-23	1400	MD
BOD-5day	BDL	BDL		1 mg/L	5210B	3 thru 8-Mar-23	1630	MD
COD	7	13		5 mg/L	5220D	7-Mar-23	1630	MD
E-Coli	220	360		1 Colony/ 100 mL	mColiBlue24	2 thru 3-Mar-23	1200	MD
Fecal Coliform	650	620		1 Colony/ 100 mL	9222	2 thru 3-Mar-23	1200	MD
Conductivity	200	320		10 umhos/cm	2510B	3-Mar-23	1330	MD
TKN	0.8	1.3		0.1 mg/L	4500NH3-C	6-Mar-23	1000	MD
Total Nitrogen	1.7	4.8		0.1 mg/L	4500NH3-C & 4110B	6-Mar-23	1000	MD
Total Phosphorus	BDL	0.19		0.02 mg/L	4500P-E	8-Mar-23	1500	MD
NO2+NO3, Total as N	0.89	3.53		0.02 mg/L	4110B	3-Mar-23	1200	MD
TDS	272	476		1 mg/L	2540C	7-Mar-23	1100	MD
TSS	24	14		1 mg/L	2540D	3-Mar-23	1600	MD
Turbidity	19.5	24.6		0.01 NTU	2130B	3-Mar-23	1000	MD
Hardness as CaCO3	157	179		0.02 mg/L	2340B	10-Mar-23	1130	MD
Oil & Grease	BDL	BDL		0.5 mg/L	1664	6-Mar-23	1600	MD

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

ADEM Laboratory Certification I.D.# 40710

STILLBROOK

CHAIN OF CUSTODY

LAB INVOICE # 46302

Environmental Testing Laboratory, Inc.
302 Crawford Street Fairfield, AL 35064 SHIPPING #: _____
Phone: 205-788-1750 FAX: 205-788-1747

CLIENT: Volkert, INC 205-515-5755 1616 2nd Ave S Birmingham, AL 35226	Date Results Needed: Normal turn around time Send Invoice to: casey.nowell@volkert.com *Special Instructions:* 205-515-5755 Phone Results to: _____ at _____ FAX Results to: _____ at _____
Contact: Phone:	

SAMPLE IDENTIFICATION

PROJECT NAME: City of Alabaster MS4

PROJECT LOC: Alabaster, AL

PROJECT #: **P.O. #:**

SAMPLER: Casey Nowell **SAMPLE DATE:**

LAB I.D.	FIELD I.D.	MATRIX	DATE	TIME	# BTL	Cond	NH_3-N	BOD	COD	E.coli	Fecal C	H as $CaCO_3$	NO_3+NO_2-N	Oil and Grease	TDS	Total Kjeldahl N	Total N	Total P	TSS	Turbidity (NTU)
112702	Site #1	H2O				✓							✓							
112703	Site #2	H2O				✓							✓							

Indicate Preservative: Metals use HNO_3 Nitric Acid
BTEX use HCL Hydrochloric Acid + 0.008% Sodium Thiosulfate
Semi-Vol Organics or Coliforms/Fecal Strep use 0.008% Sodium Thiosulfate.
H_2SO_4 Sulfuric Acid Sulfide use Zinc Acetate
CN use NaOH Sodium Hydroxide &--if needed Ascorbic Acid

Indicate Sample Bottle Type: Glass Plastic VOC Vial

Sample Preservative & Container

HDPE						
4°C						

Special Note:

RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE: Casey Nowell	Date: 3-2-23	*SIGNATURE:*
PRINT NAME: Casey Nowell	Time(24hr) 10:50	*PRINT NAME:* Mark Dunn
RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE:	Date:	*SIGNATURE:*
PRINT NAME:	Time(24hr)	*PRINT NAME:*

In the event of default on charges for above services, customer agrees to pay all costs of collection, including a reasonable attorney's fee.

STILLBROOK

Environmental Testing Laboratory, Inc.

302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 46406

Client: Mr. Casey Nowell
Volkert, Inc.
1616 2nd Avenue South
Birmingham, AL 35226

Date: April 24, 2023

Project Name: City of Alabaster MS4
Project Number: N/A
Project Location: Alabaster, AL
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Casey Nowell
Date Collected: April 13, 2023
Test Method: "Standard Methods for the Examination of Water and Wastewater", 20th Edition.
"Hach".
"Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83; 821/B-94-0046/4-95.

WATER AND WASTEWATER ASSAYS

Lab I.D.:	112927	112928		Detection	Method	Date	Time	Lab
Field I.D.:	Site #1	Site #2		Limit/Units	Reference	Analyzed	Analyzed	Analyst
PARAMETERS				D.L./UNITS	NUMBER	DATE	TIME	ANALYST
Ammonia as N	BDL	BDL		0.1 mg/L	4500NH3-C	17-Apr-23	1400	MD
BOD-5day	BDL	BDL		1 mg/L	5210B	14 thru 19-Apr-23	1630	MD
COD	11	19		5 mg/L	5220D	18-Apr-23	1630	MD
E-Coli	350	390		1 Colony/ 100 mL	mColiBlue24	13 thru 14-Apr-23	1430	MD
Fecal Coliform	760	840		1 Colony/ 100 mL	9222	13 thru 14-Apr-23	1430	MD
Conductivity	240	330		10 umhos/cm	2510B	17-Apr-23	1100	MD
TKN	1.0	1.3		0.1 mg/L	4500NH3-C	18-Apr-23	1030	MD
Total Nitrogen	1.8	3.3		0.1 mg/L	4500NH3-C & 4110B	18-Apr-23	1030	MD
Total Phosphorus	BDL	BDL		0.02 mg/L	4500P-E	19-Apr-23	1500	MD
NO2+NO3, Total as N	0.78	2.03		0.02 mg/L	4110B	14-Apr-23	1130	MD
TDS	260	328		1 mg/L	2540C	14-Apr-23	1200	MD
TSS	15	30		1 mg/L	2540D	14-Apr-23	1530	MD
Turbidity	17.9	28.2		0.01 NTU	2130B	14-Apr-23	1030	MD
Hardness as CaCO3	136	173		0.02 mg/L	2340B	19-Apr-23	1330	MD
Oil & Grease	1.5	1.5		0.5 mg/L	1664	17-Apr-23	1630	MD

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

ADEM Laboratory Certification I.D.# 40710

STILLBROOK

CHAIN OF CUSTODY

LAB INVOICE # 46406

Environmental Testing Laboratory, Inc.

SHIPPING #: _____

302 Crawford Street Fairfield, AL 35064 Phone: 205-788-1750 FAX: 205-788-1747

CLIENT: Volkert, INC	Date Results Needed: Normal turn around time
205-515-5755	Send Invoice to: casey.nowell@volkert.com
1616 2nd Ave S	*Special Instructions:* 205-515-5755
Birmingham, AL 35226	Phone Results to: _____ at _____ - _____
Contact: Phone:	FAX Results to: _____ at _____ - _____

PROJECT NAME: City of Alabaster MS4

PROJECT LOC: Alabaster, AL

PROJECT #: **P.O. #:**

SAMPLER: Casey Nowell **SAMPLE DATE:**

LAB I.D.	FIELD I.D.	MATRIX	DATE	TIME	# BTL	Cond	NH_3-N	BOD	COD	E.coli	Fecal C	H as $CaCO_3$	NO_3+NO_2-N	Oil and Grease	TDS	Total Kjeldahl N	Total N	Total P	TSS	Turbidity (NTU)
112927	Site #1	H2O	4/13	8:30	4	✓							✓							
112928	Site #2	H2O	4/13	9:00	4	✓							✓							

Indicate Preservative: Metals use HNO_3 Nitric Acid

BTEX use HCL Hydrochloric Acid + 0.008% Sodium Thiosulfate

Semi-Vol Organics or Coliforms/Fecal Strep use 0.008% Sodium Thiosulfate.

H_2SO_4 Sulfuric Acid Sulfide use Zinc Acetate

CN use NaOH Sodium Hydroxide & -if needed Ascorbic Acid

Indicate Sample Bottle Type: Glass (Plastic) VOC Vial

Sample Preservative & Container

HDPE

4°C

Special Note:

RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE: Casey Nowell	Date: 4/13/23	*SIGNATURE:* John T. Brooks
PRINT NAME: Casey Nowell	Time(24hr) 10:16	*PRINT NAME:* John T. Brooks

RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE:	Date:	*SIGNATURE:*
PRINT NAME:	Time(24hr)	*PRINT NAME:*

In the event of default on charges for above services, customer agrees to pay all costs of collection, including a reasonable attorney's fee.

STILLBROOK

Environmental Testing Laboratory, Inc.
302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 46894

Client: Mr. Casey Nowell
Volkert, Inc.
1616 2nd Avenue South
Birmingham, AL 35226

Date: October 15, 2023

Project Name: City of Alabaster MS4
Project Number: N/A
Project Location: Alabaster, AL
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Casey Nowell
Date Collected: September 29, 2029
Test Method: "Standard Methods for the Examination of Water and Wastewater", 20th Edition.
"Hach".
"Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83; 821/B-94-0046/4-95.

WATER AND WASTEWATER ASSAYS

Lab I.D.:	114027	114028		Detection	Method	Date	Time	Lab
Field I.D.:	Site #1	Site #2		Limit/Units	Reference	Analyzed	Analyzed	Analyst
PARAMETERS				D.L./UNITS	NUMBER	DATE	TIME	ANALYST
Ammonia as N	BDL	BDL		0.1 mg/L	4500NH3-C	3-Oct-23	1430	MD
BOD-5day	BDL	BDL		1 mg/L	5210B	29-Sep thru 4-Oct-23	1630	MD
COD	14	15		5 mg/L	5220D	5-Oct-23	1630	MD
E-Coli	BDL	BDL		1 Colony/ 100 mL	mColiBlue24	29 thru 30-Sep-23	1400	MD
Fecal Coliform	48	73		1 Colony/ 100 mL	9222	29 thru 30-Sep-23	1400	MD
Conductivity	180	250		10 umhos/cm	2510B	5-Oct-23	1000	MD
TKN	1.0	1.1		0.1 mg/L	4500NH3-C	6-Oct-23	1030	MD
Total Nitrogen	1.6	18.0		0.1 mg/L	4500NH3-C & 4110B	6-Oct-23	1030	MD
Total Phosphorus	BDL	BDL		0.02 mg/L	4500P-E	6-Oct-23	1530	MD
NO2+NO3, Total as N	0.62	16.9		0.02 mg/L	4110B	2-Oct-23	1200	MD
TDS	168	264		1 mg/L	2540C	4-Oct-23	1100	MD
TSS	14	26		1 mg/L	2540D	6-Oct-23	1400	MD
Turbidity	14.2	20.7		0.01 NTU	2130B	29-Sep-23	1600	MD
Hardness as CaCO3	95.2	123		0.02 mg/L	2340B	9-Oct-23	1430	MD
Oil & Grease	BDL	BDL		0.5 mg/L	1664	2-Oct-23	1630	MD

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

ADEM Laboratory Certification I.D.# 40710

STILLBROOK

CHAIN OF CUSTODY

LAB INVOICE # 46894

Environmental Testing Laboratory, Inc.

SHIPPING #: _____

302 Crawford Street Fairfield, AL 35064 Phone: 205-788-1750 FAX: 205-788-1747

CLIENT: Volkert, INC	Date Results Needed: Normal turn around time
205-515-5755	Send Invoice to: casey.nowell@volkert.com
1616 2nd Ave S	*Special Instructions:* 205-515-5755
Birmingham, AL 35226	Phone Results to: _____ at _____ - _____
Contact: Phone:	FAX Results to: _____ at _____ - _____

SAMPLE IDENTIFICATION

PROJECT NAME: City of Alabaster MS4

PROJECT LOC: Alabaster, AL

PROJECT #: **P.O. #:**

SAMPLER: Casey Nowell SAMPLE DATE:

LAB I.D.	FIELD I.D.	MATRIX	DATE	TIME	# BTL	Cond	NH_3-N	BOD	COD	E.coli	Fecal C	H as $CaCO_3$	NO_3+NO_2-N	Oil and Grease	TDS	Total Kjeldahl N	Total N	Total P	TSS	Turbidity (NTU)
114027	Site #1	H2O	9-29	11:10	4	✓							✓							
114028	Site #2	H2O	9-29	10:50	4	✓							✓							

PARAMETERS

Indicate Preservative: Metals use HNO_3 Nitric Acid

BTEX use HCL Hydrochloric Acid + 0.008% Sodium Thiosulfate

Semi-Vol Organics or Coliforms/Fecal Strep use 0.008% Sodium Thiosulfate.

H_2SO_4 Sulfuric Acid Sulfide use Zinc Acetate

CN use NaOH Sodium Hydroxide &--if needed Ascorbic Acid

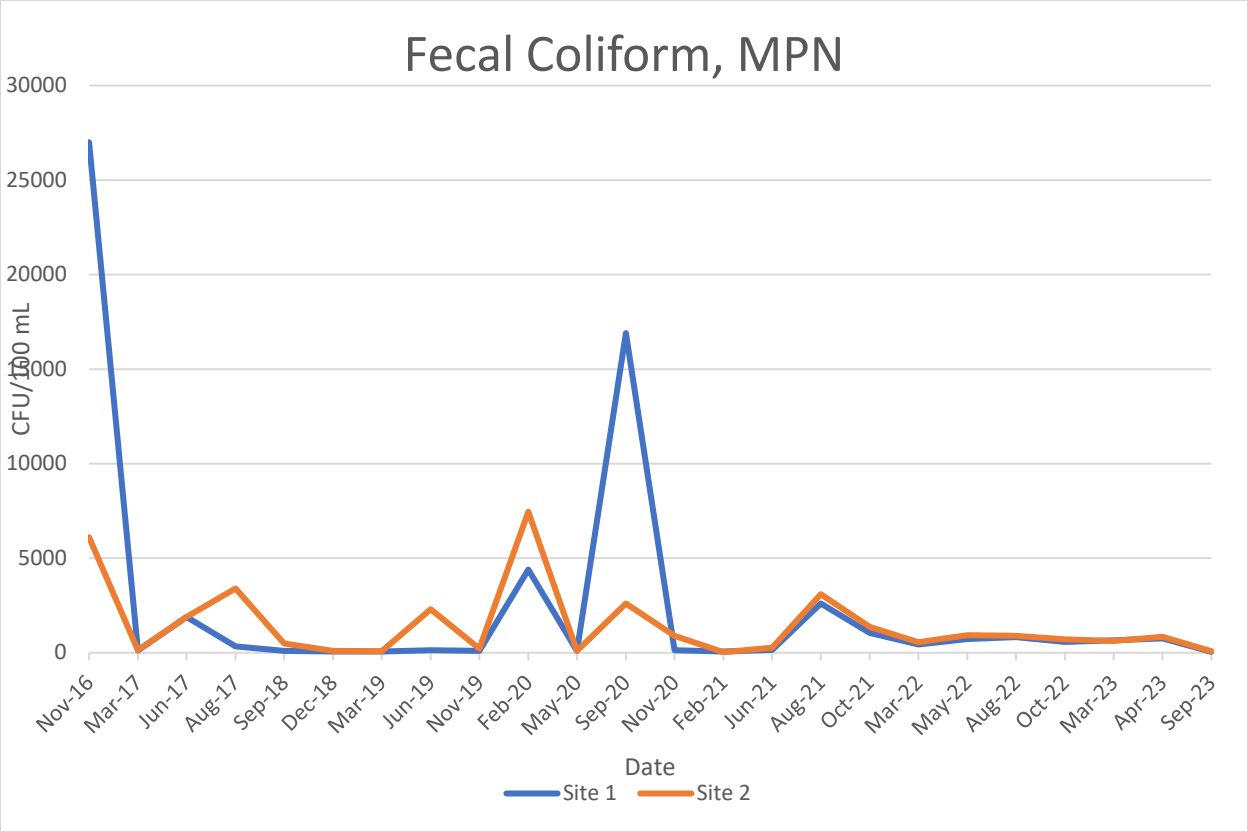
Indicate Sample Bottle Type: Glass (Plastic) VOC Vial

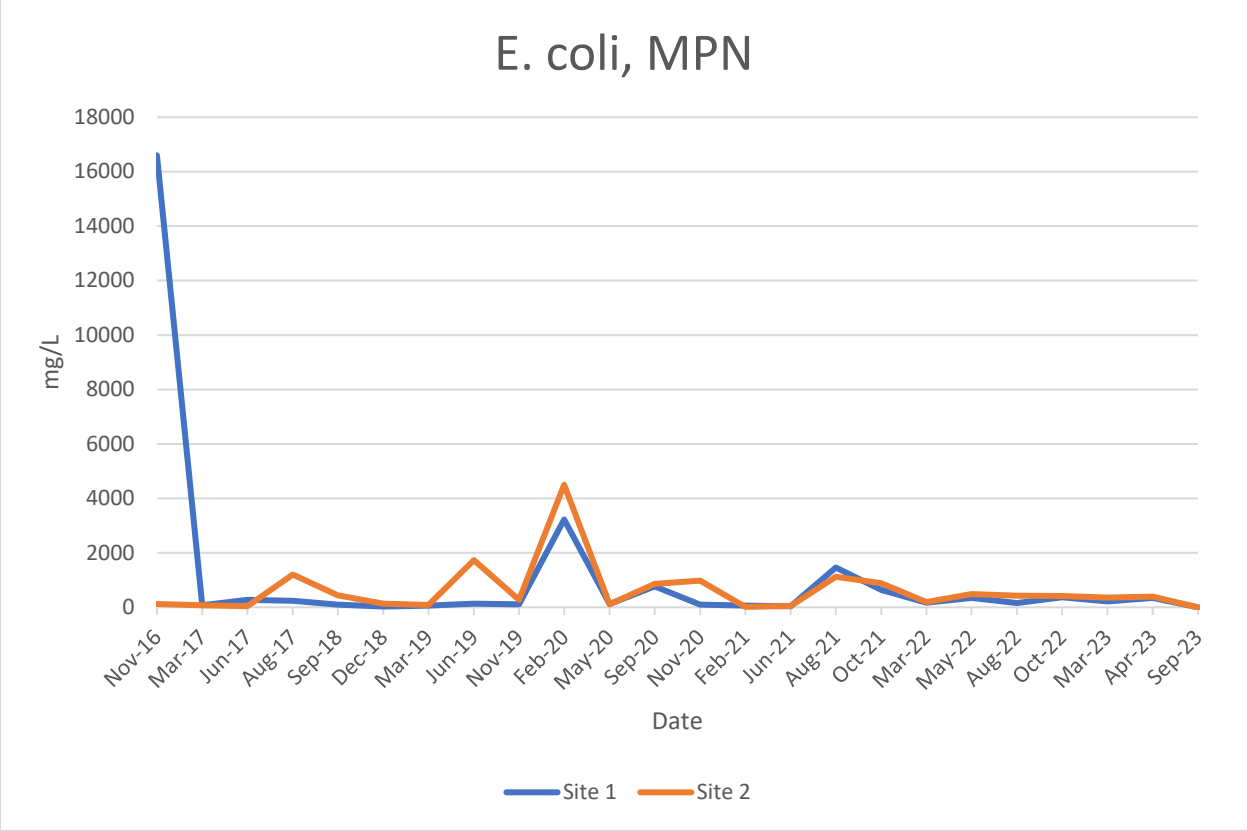
Sample Preservative & Container							
HDPE							
4°C							

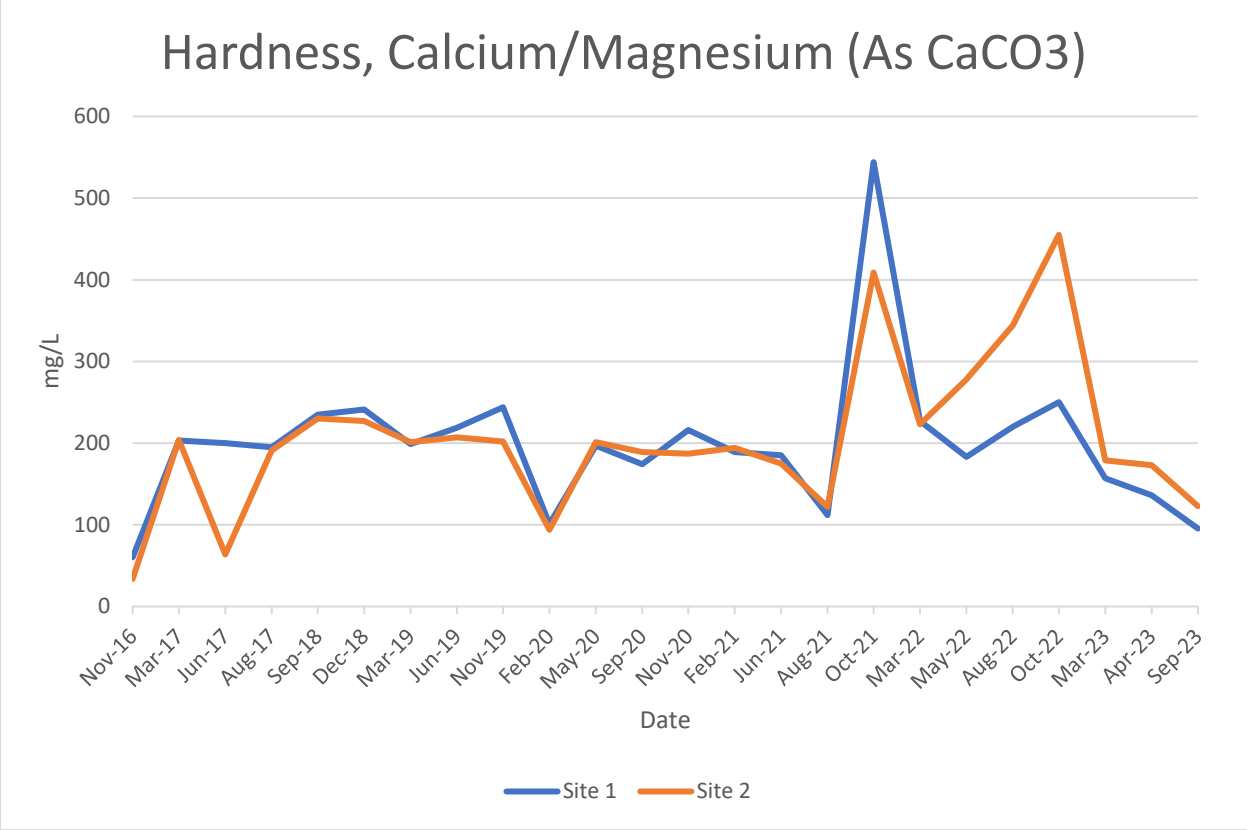
Special Note:

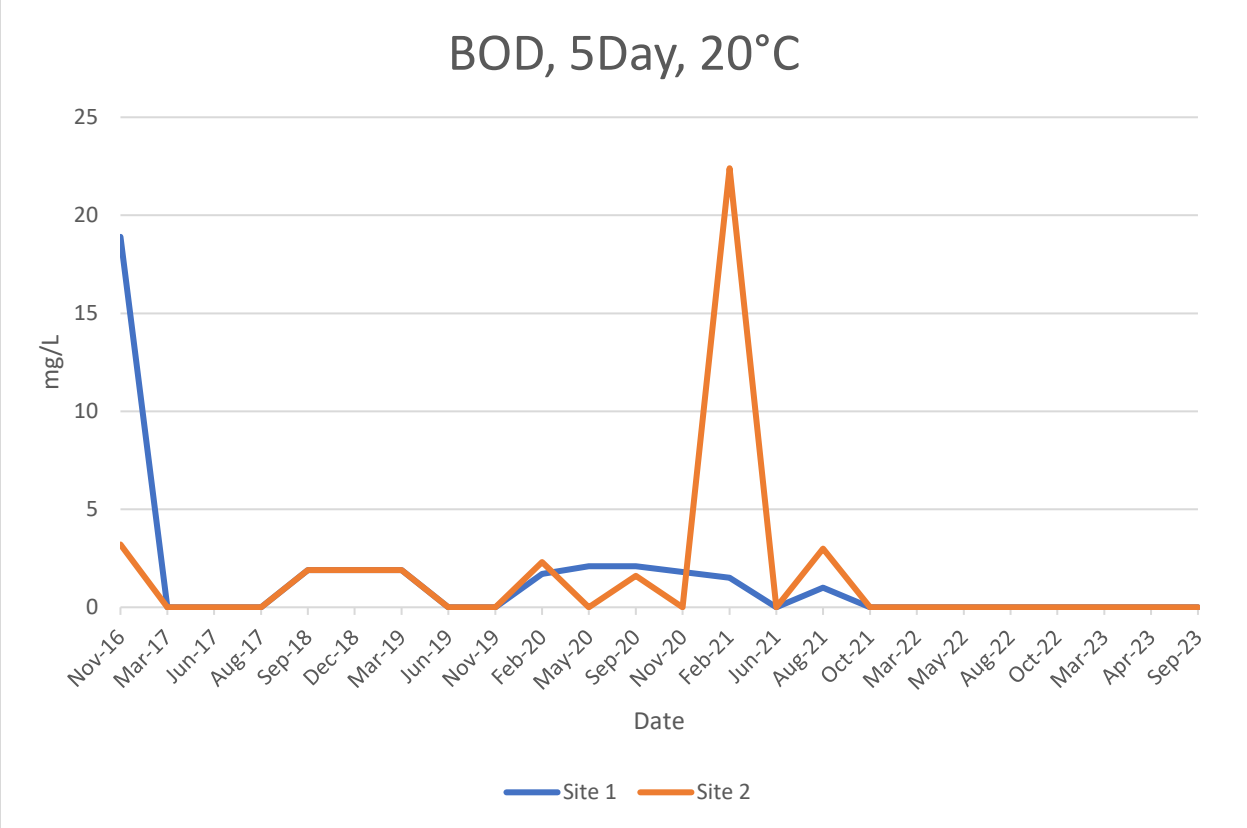
RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE: Casey Nowell	Date: 9/29/23	*SIGNATURE:* Jon T. Dunn
PRINT NAME: Casey Nowell	Time(24hr) 1711	*PRINT NAME:* John T. Brooks
RELINQUISHED BY	DATE/TIME	*RECEIVED BY*
SIGNATURE:	Date:	*SIGNATURE:*
PRINT NAME:	Time(24hr)	*PRINT NAME:*

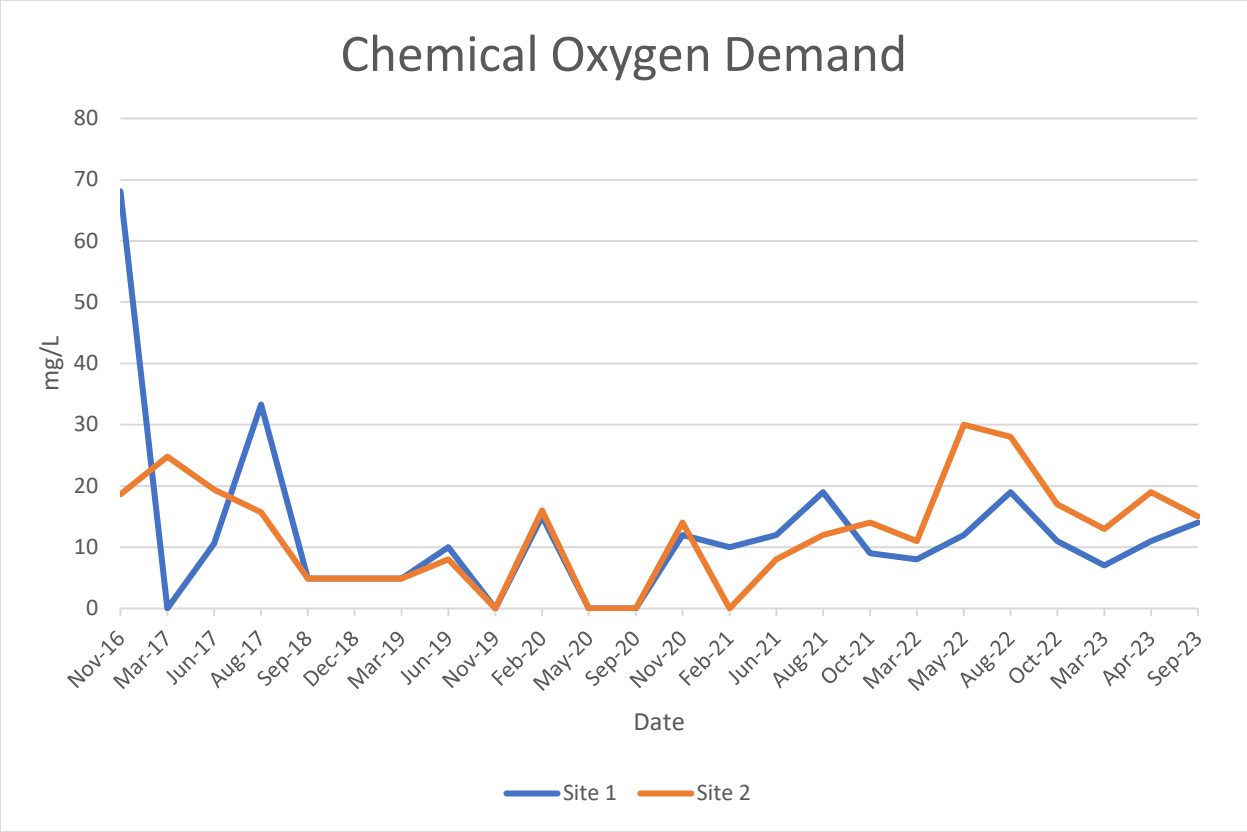
In the event of default on charges for above services, customer agrees to pay all costs of collection, including a reasonable attorney's fee.


Fecal Coliform, MPN
30000
25000
20000
15000
10000
5000
0
CFU/100 mL
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


E. coli, MPN
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Hardness, Calcium/Magnesium (As CaCO3)
600
500
400
300
200
100
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


BOD, 5Day, 20°C
25
20
15
10
5
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Chemical Oxygen Demand
80
70
60
50
40
30
20
10
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
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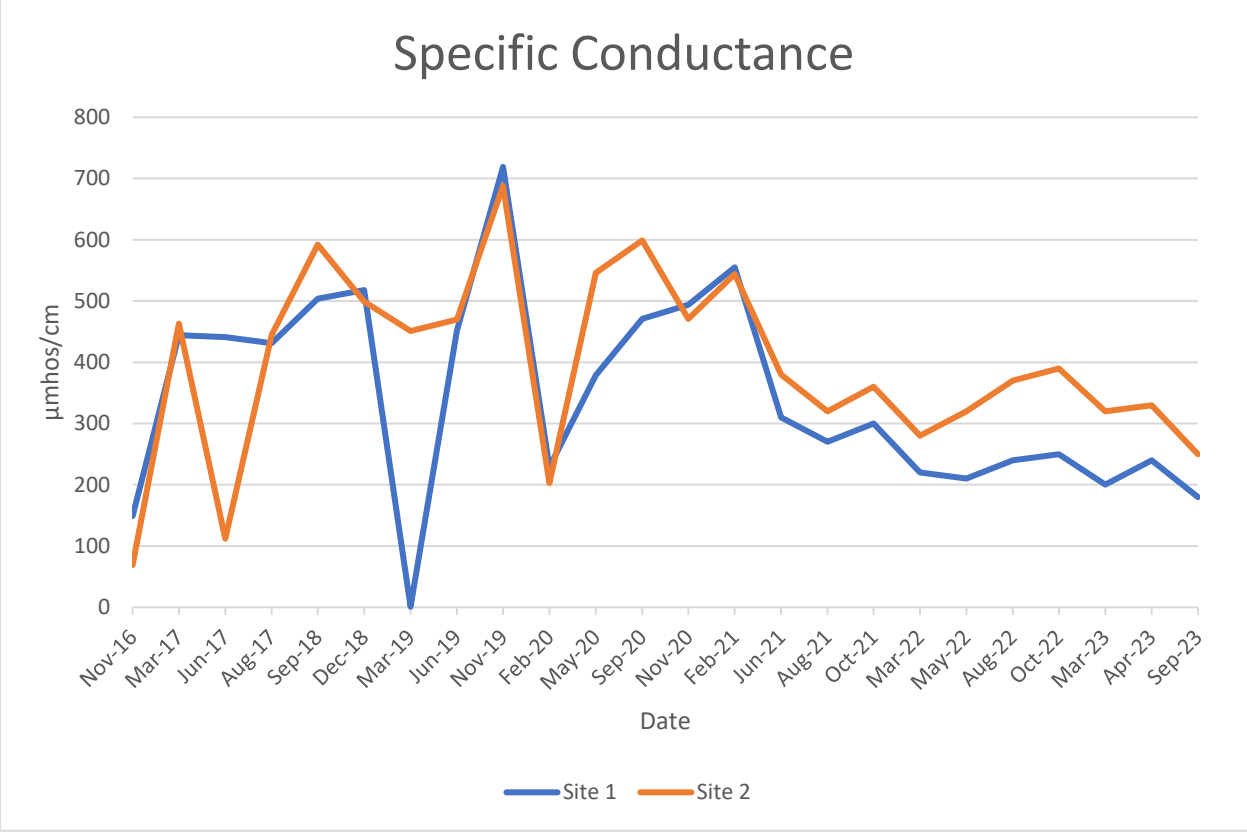
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Specific Conductance
800
700
600
500
400
300
200
100
0
µmhos/cm
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
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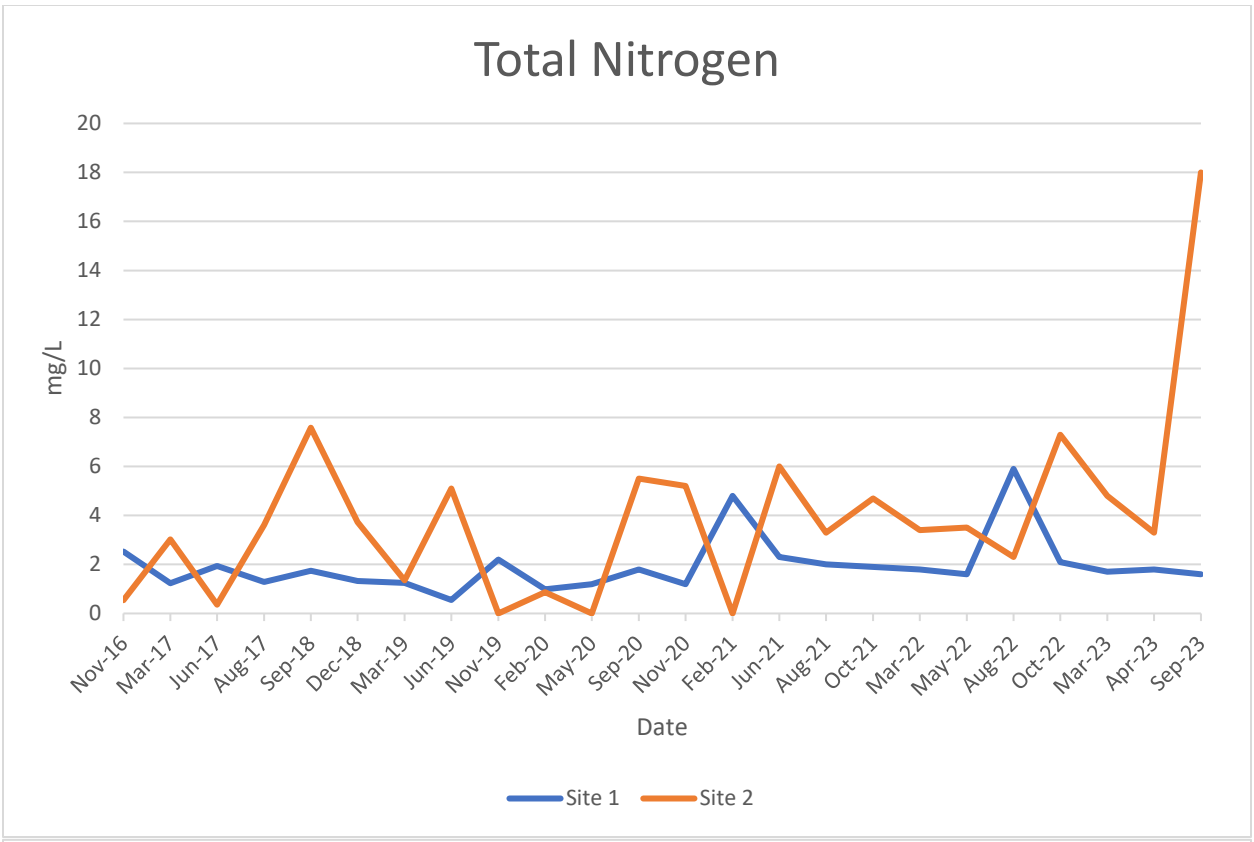
Sep-23
Date
Site 1
Site 2


Total Nitrogen
20
18
16
14
12
10
8
6
4
2
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
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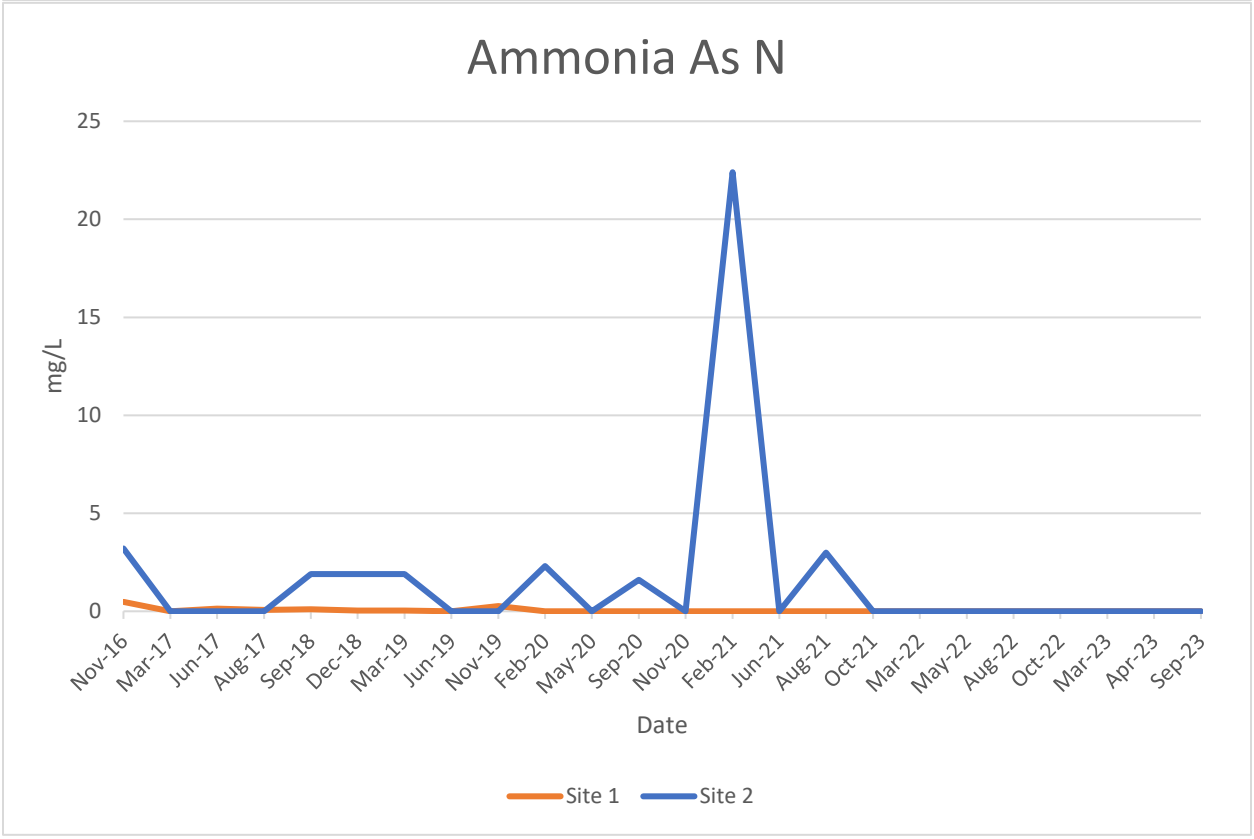
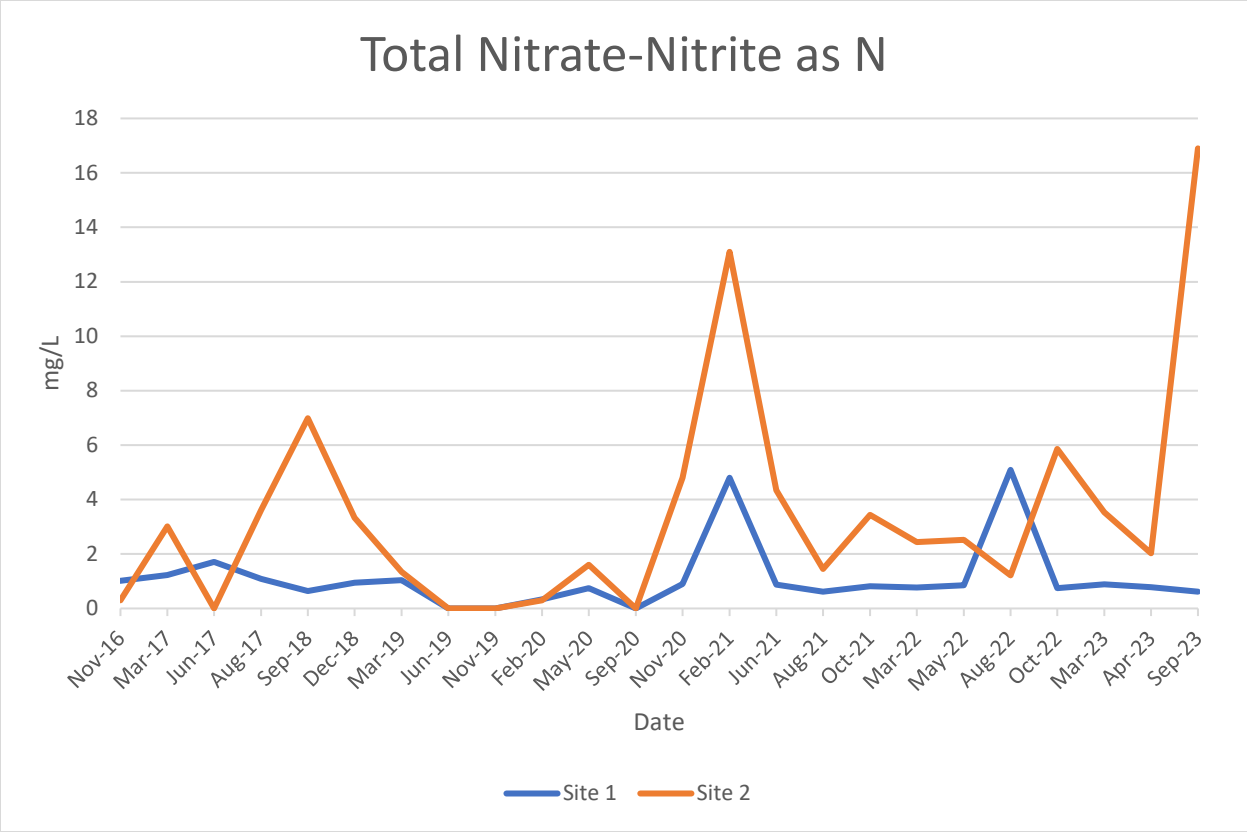
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Ammonia As N
25
20
15
10
5
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Total Nitrate-Nitrite as N
mg/L
18
16
14
12
10
8
6
4
2
0
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
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Apr-23
Sep-23
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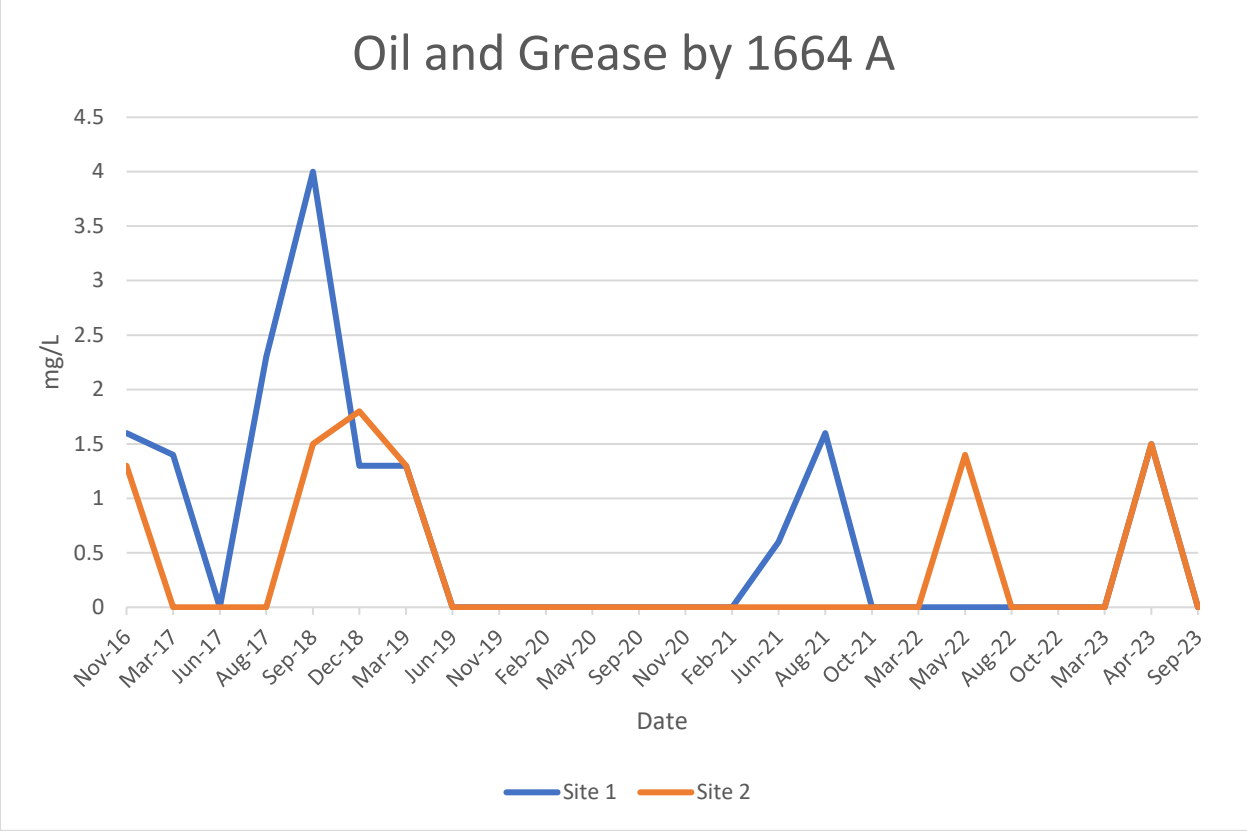
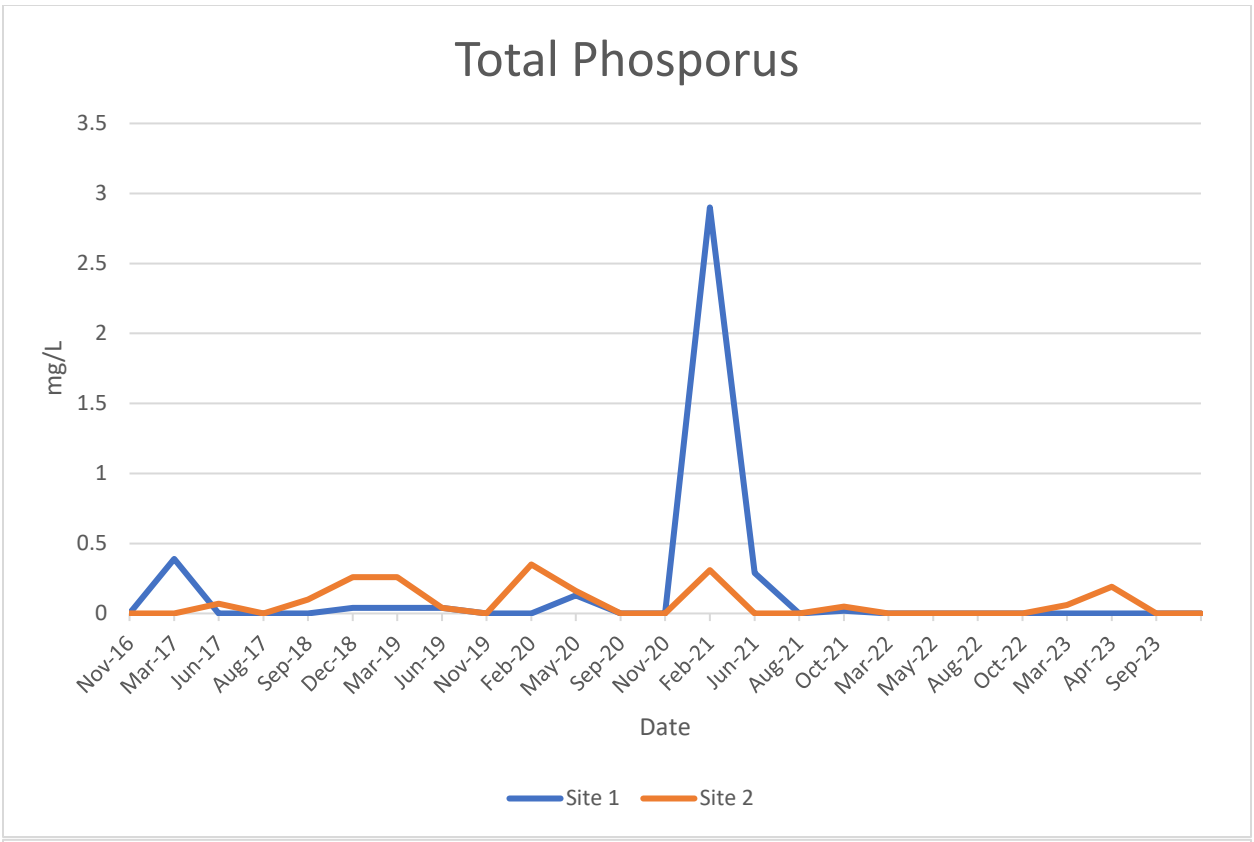
Site 2


Oil and Grease by 1664 A
mg/L
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Total Phosporus
3.5
3
2.5
2
1.5
1
0.5
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
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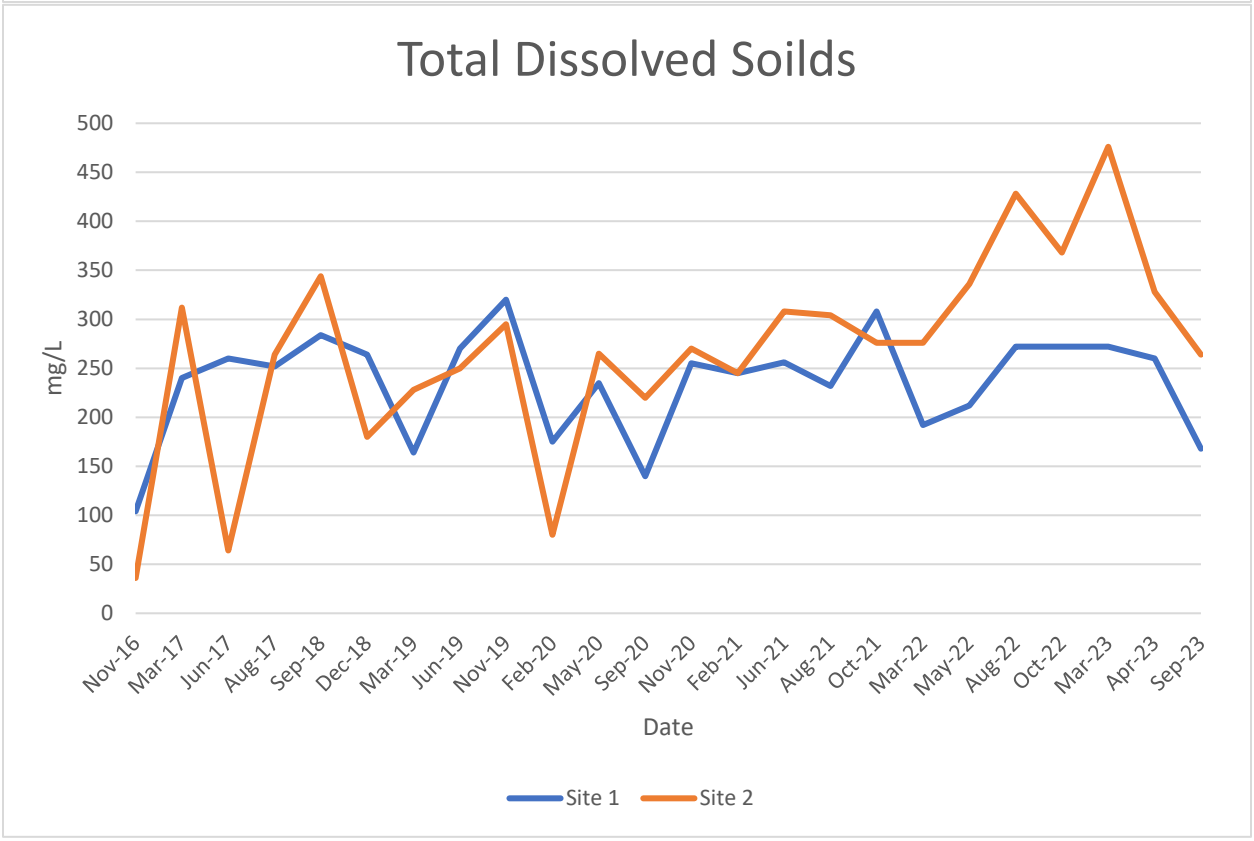
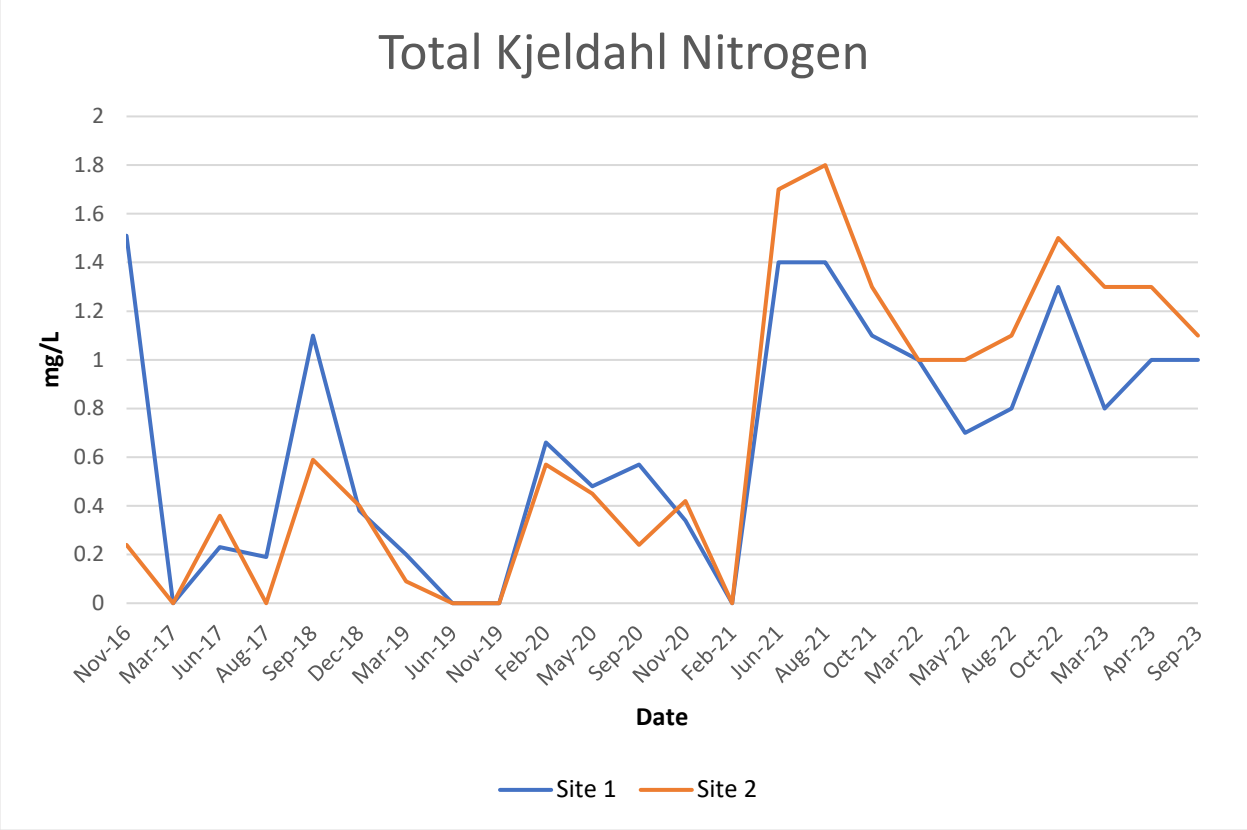
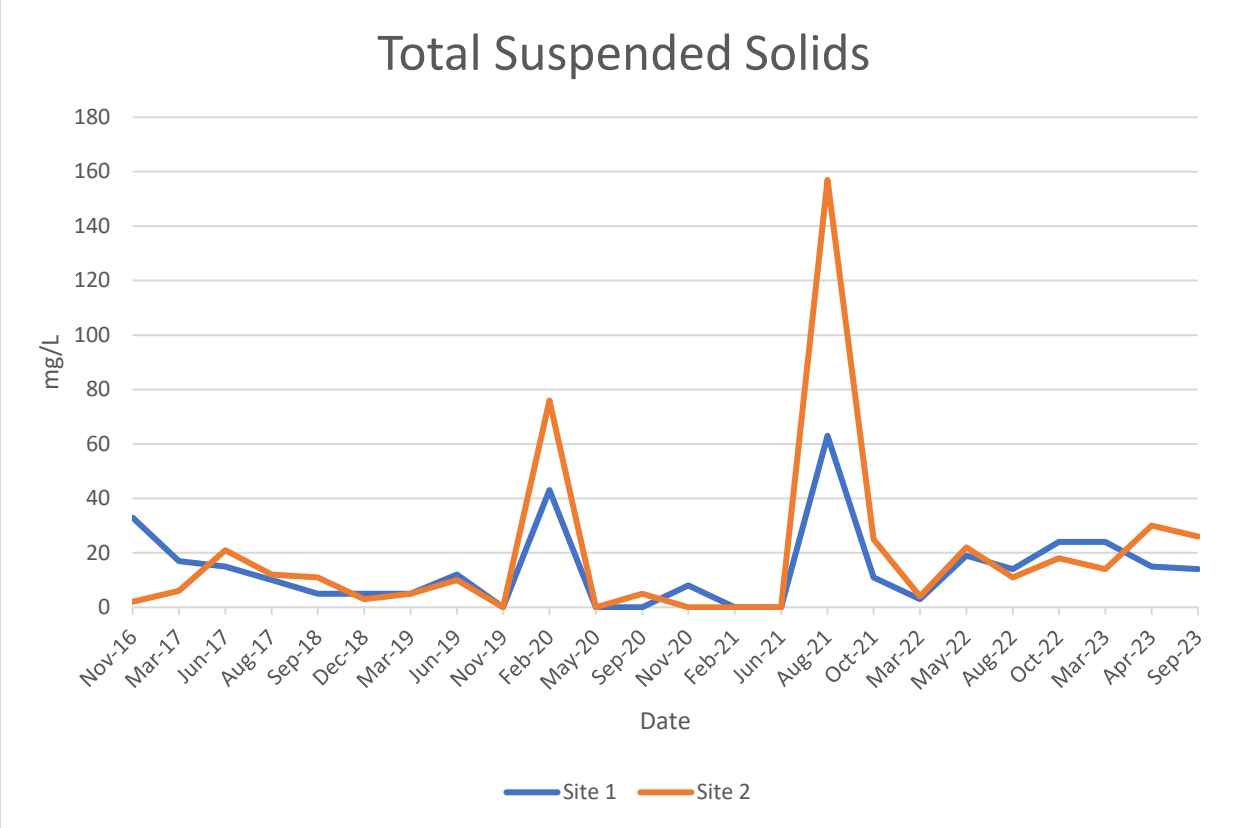
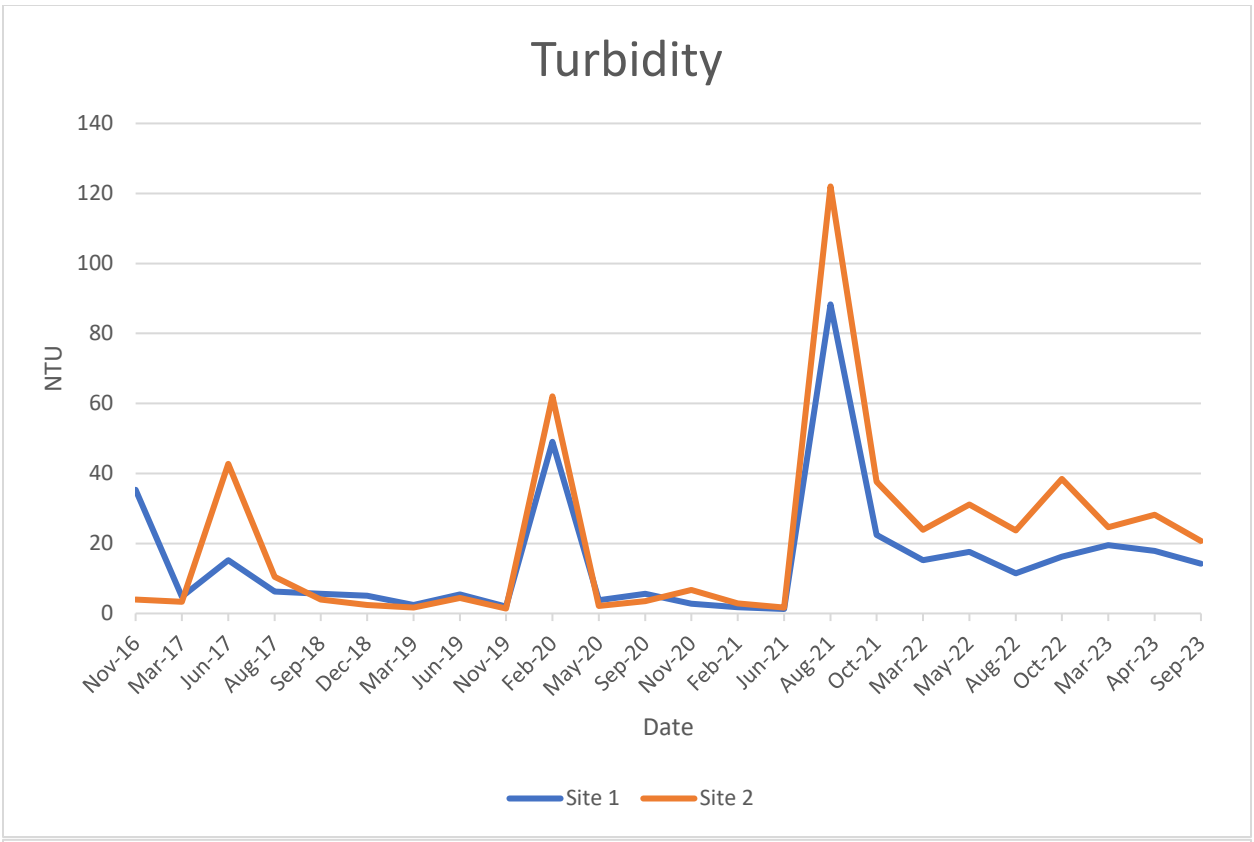
Site 1
Site 2


Total Dissolved Soilds
500
450
400
350
300
250
200
150
100
50
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Total Kjeldahl Nitrogen
mg/L
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Total Suspended Solids
mg/L
180
160
140
120
100
80
60
40
20
0
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Turbidity
140
120
100
80
60
40
20
0
NTU
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
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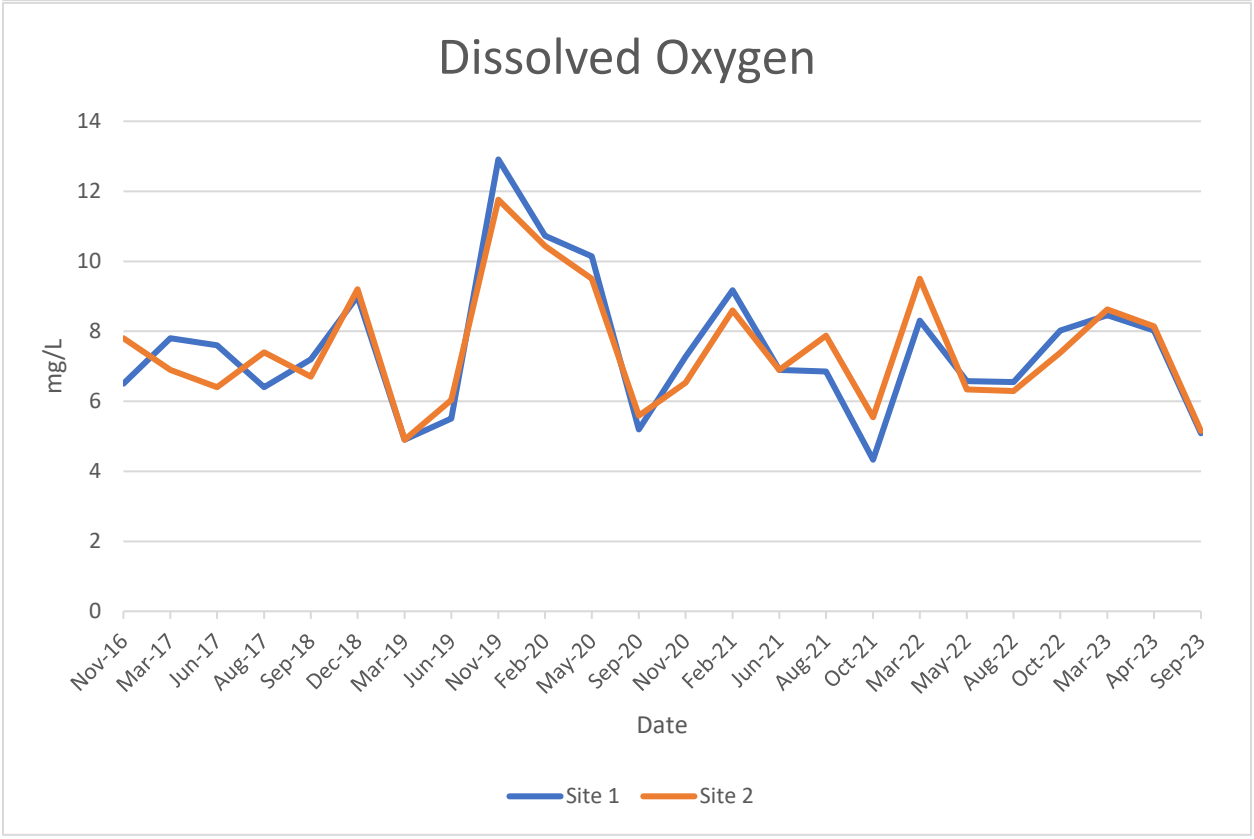
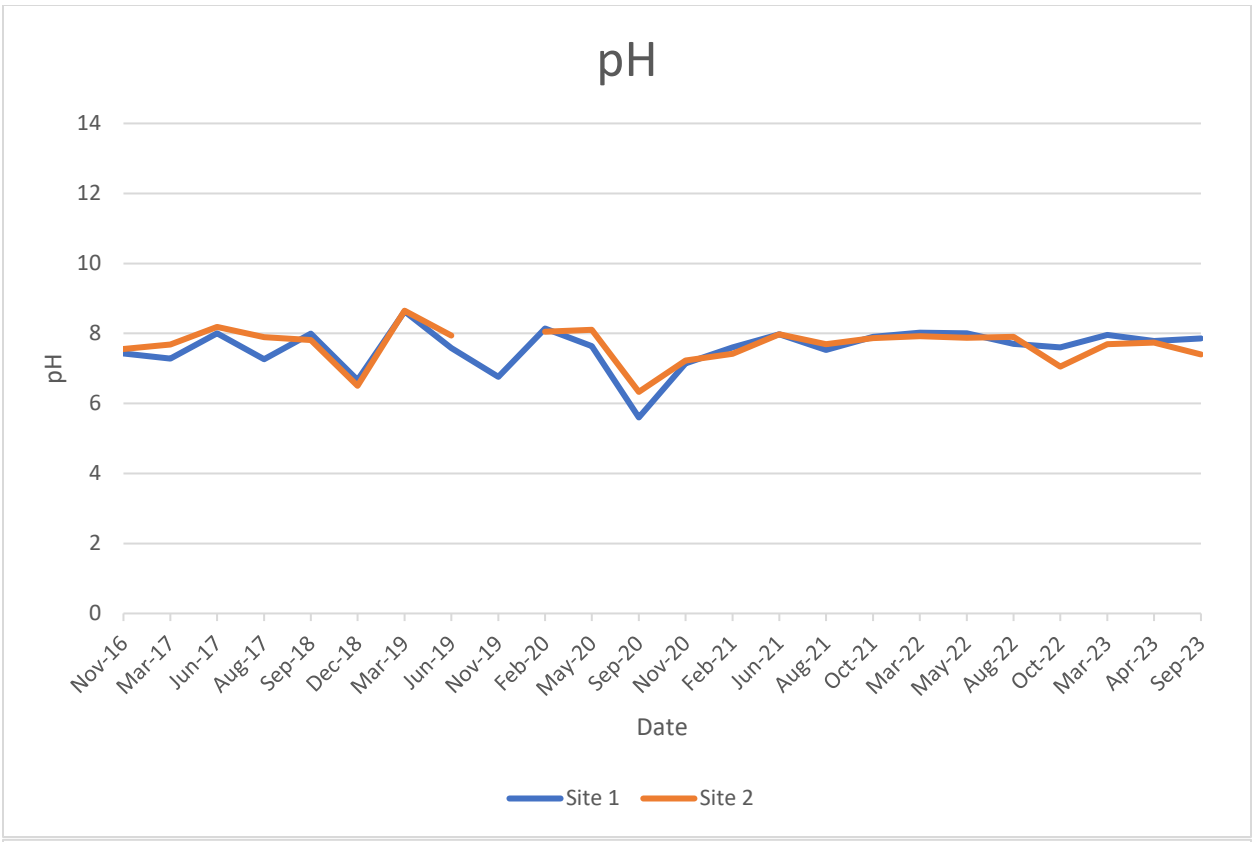
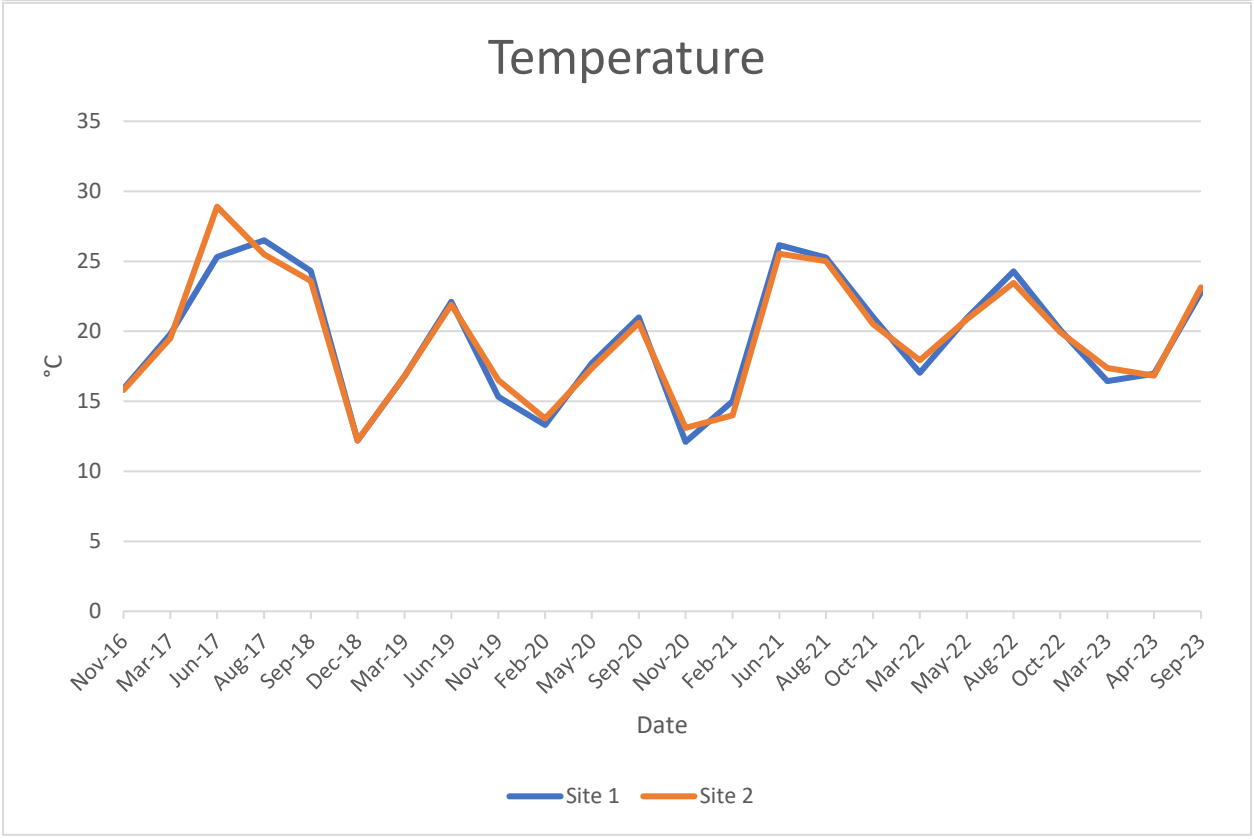
Site 2


Dissolved Oxygen
14
12
10
8
6
4
2
0
mg/L
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


pH
14
12
10
8
6
4
2
0
pH
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
Site 1
Site 2


Temperature
35
30
25
20
15
10
5
0
°C
Nov-16
Mar-17
Jun-17
Aug-17
Sep-18
Dec-18
Mar-19
Jun-19
Nov-19
Feb-20
May-20
Sep-20
Nov-20
Feb-21
Jun-21
Aug-21
Oct-21
Mar-22
May-22
Aug-22
Oct-22
Mar-23
Apr-23
Sep-23
Date
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