

# CITY OF DENHAM SPRINGS

## PHASE II MS4 ANNUAL REPORT

FOR THE YEAR  
2022-2023

REVISED  
JULY 20, 2023



IN COMPLIANCE WITH THE CONDITIONS OF LPDES GENERAL  
PERMIT LAR040000 REGULATING DISCHARGES FROM SMALL MUNICIPAL  
SEPARATE STORM SEWER SYSTEMS AUTHORIZING DISCHARGE UNDER THE  
LOUISIANA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PREPARED BY:



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## Small MS4 Annual Report Form

Please refer to the attached instructions as you prepare your annual report.

### A. General Information

Name of MS4: City of Denham Springs

Contact Name: Rick Foster, City of Denham Springs Building Official

Telephone Number: (225) 667-8325 Email Address: RFoster@cityofdenhamsprings.com

Annual Report Period: January 1, 2022 through December 31, 2023

Prepared: March 8, 2023 Revised: July 20, 2023

### B. SWMP Modifications and Additional Information. Attach a written explanation if you check "yes" to any of the following statements.

- |                                                                                                                                     |                                         |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|
| 1. Changes have been made or are proposed to the SWMP since the last annual report.                                                 | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 2. The MS4 area has expanded through the annexation of lands or the urbanized area has expanded based on the most recent US Census. | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 3. The MS4 discharges directly to an impaired water (i.e. Category 5 on the Integrated Report).                                     | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 4. The MS4 discharges directly to water for which a TMDL has been established.                                                      | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 5. A TMDL has provided a Waste Load Allocation (WLA) to the MS4.                                                                    | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |
| 6. The MS4 has conducted analytical monitoring of stormwater quality.                                                               | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/>            |
| 7. The MS4 is relying on another government entity to satisfy some permit obligations.                                              | YES <input type="checkbox"/>            | NO <input checked="" type="checkbox"/> |



**C. Stormwater Management Program Status.** Provide the status of every BMP and measurable goal in your SWMP as described in the instructions.

**TABLE 1**

Minimum Control Measure(s)	BMP	Measurable Goal (steps to measure progress)	New/ Revised	Start Date	Implementation Status/ Frequency/ Achievement Date (completed, in progress, not started)	Future Plans
Public Education and Outreach on Storm Water Impacts	Utility bill insert with stormwater pollution prevention brochure	Distribute 1,000 utility bill inserts, three (3) separate times a year	Revised	5-01-19	<u>In Progress</u> – Distribution of informational brochures included mail-outs on flood plain management, handouts during outreach events, attachments provided with development applications, and brochures provided at the city permit office. A total of 5,100 brochures were mailed out during the year. A copy of the brochures is provided in Attachment G.	Distributions via utility bill inserts will be mailed out during the year with Rick Foster (City Building Official) preparing the brochures and coordinating the mail-outs in May, August and November. The target number of mailouts is 2,000 in May, 2,000 in August and 2,000 in November.
Public Education and Outreach on Storm Water Impacts	Provide education material on stormwater pollution (causes, effects, etc.) at City Hall	Distribute a minimum of 150 educational pamphlets, brochures, leaflets, etc. during the calendar year	Revised	1-01-16	<u>Completed</u> - Educational pamphlets are currently available at the City Permit Office. Approximately 50 hand-outs were distributed for the 2022 calendar year	The city will continue to provide educational pamphlets, brochures, leaflets, etc. at city hall. An estimated 50 hand-outs are expected to be distributed during the calendar year
Public Education and Outreach on Storm Water Impacts	Give a presentation on stormwater pollution prevention topic at public event	Give a presentation on a storm water pollution prevention topic at two (2) public events	Revised	6-01-19	<u>In Progress</u> – Public presentations were provided in April (D.S. Spring Fest) and October (D.S. Fall Fest).	Rick Foster (City Building Official) will continue to coordinate presentations at a minimum of two (2) public meetings or events during the 2023-2024 calendar year.
Public Education and Outreach on Storm Water Impacts	Give a presentation on stormwater pollution prevention topic at local school	Give a presentation on a storm water pollution prevention topic at two (2) local schools		3-21-19	<u>In Progress</u> – No presentations at local schools were completed for the 2022-2023 calendar year.	Rick Foster (City Building Official) will conduct a stormwater presentation at two (2) local schools during the current calendar year. Presentations will be completed at a date determined by the school board.
Public Education and Outreach on Storm Water Impacts	Provide education material on stormwater pollution (causes, effects, etc.) at public event	Distribute educational pamphlets, brochures, leaflets, etc. at a public event during the calendar year		10-5-19	<u>In Progress</u> – Educational pamphlets were provided in April (D.S. Spring Fest) and October (D.S. Fall Fest).	Rick Foster (City Building Official) will continue to coordinate distribution of educational pamphlets at a minimum of two (2) public events during the 2023-2024 calendar year.



Public Education and Outreach on Storm Water Impacts	Community Service Litter Detail	Host/Assist with a community service event to remove trash, debris, etc. from city right-of-ways		11-13-19	<u>In Progress</u> – Keep Livingston Beautiful and Denham Springs Green organizations completed garden and landscape projects in and around the City of Denham Springs Antique Village. Pictures of the improvements are provided in Attachment L.	Rick Foster (City Building Official) or his designee will host or assist with a community service event(s) which will focus on the removal of trash, debris, etc. from city right-of-ways. Employees of the City of Denham Springs will be encouraged to participate
Public Education and Outreach on Storm Water Impacts	Provide copy of MS4 Annual Report on City website	Publish a copy of the current MS4 Annual Report on the City's public website		3-08-21	<u>In Progress</u> – Once the preceding years MS4 Annual Report has been completed, a copy will be published on the City's public website. A copy of the report is available at: <a href="https://www.cityofdenhamsprings.com/Documents/DocumentResources/Phase%20II%20MS4%20Annual%20Report%20(2022-2023).pdf">https://www.cityofdenhamsprings.com/Documents/DocumentResources/Phase%20II%20MS4%20Annual%20Report%20(2022-2023).pdf</a>	The city will provide a copy of the 2022-2023 MS4 Annual Report on the City's public website throughout the calendar year. The website will be updated to include the report for the previous year and shall be available to the public by April 1 <sup>st</sup> of the calendar year
Public Involvement/ Participation	Give a presentation on stormwater pollution prevention topic at local school	Give a presentation on a storm water pollution prevention topic at two (2) local schools		3-21-19	<u>In Progress</u> – No presentations at local schools were completed for the 2022-2023 calendar year.	Rick Foster (City Building Official) will conduct a stormwater presentation at two (2) local schools during the current calendar year. Presentations will be completed at a date determined by the school board.
Public Involvement/ Participation	Provide education material on stormwater pollution (causes, effects, etc.) at public event	Distribute educational pamphlets, brochures, leaflets, etc. at a public event during the calendar year		10-5-19	<u>In Progress</u> – Educational pamphlets were provided in April (D.S. Spring Fest) and October (D.S. Fall Fest).	Rick Foster (City Building Official) will continue to coordinate distribution of educational pamphlets at a minimum of two (2) public events during the 2023-2024 calendar year.
Public Involvement/ Participation	Give a presentation on stormwater pollution prevention topic at public event	Give a presentation on a storm water pollution prevention topic at two (2) public events	Revised	6-01-19	<u>In Progress</u> – Public presentations were provided in April (D.S. Spring Fest) and October (D.S. Fall Fest).	Rick Foster (City Building Official) will continue to coordinate presentations at a minimum of two (2) public meetings or events during the 2023-2024 calendar year.
Public Involvement/ Participation	Host a public meeting to discuss ways to meet stormwater goals	Host a minimum of one (1) storm water pollution prevention discussion during the year to discuss how members of the public can assist in meeting stormwater goals		8-01-19	<u>In Progress</u> - Discussions with the public on the importance of and methods for storm water pollution prevention were held in April (D.S. Spring Fest) and October (D.S. Fall Fest)	Rick Foster (City Building Official) or his designee will continue to host public discussions on the importance of and methods for storm water pollution prevention

Public Involvement/ Participation	Establish a community hotline	Establish a hotline for reporting actions which do/could adversely impact the city MS4. These actions include, but are not limited to illegal dumping, spills, sewer overflows, drainage ditch maintenance, constriction site maintenance, etc.		6-01-19	<u>In Progress</u> - The city IT department is working to update the city website with the community hotline number which will work in conjunction with the existing emergency hotline for utilities.	The city website will provide a contact number for the hotline which will allow callers to report actions which do/could adversely impact the city MS4
Public Involvement/ Participation	Community Service Litter Detail	Operate a community service litter detail which picks-up trash, debris, etc. from city roadways.		3-05-15	<u>Completed</u> - Each year the City operates a community service litter detail. This year an estimated 10,253 hours were spent removing litter from within the MS4, with an estimated 1,460 CY of contaminants being removed	Under the guidance of Mr. George Lathers, Street Dept. Supervisor, the city will continue to operate a community service litter detail which focuses on the removal of trash, debris, etc. from city roadways.
Public Involvement/ Participation	Provide copy of MS4 Annual Report on City website	Publish a copy of the current MS4 Annual Report on the City's public website		3-10-21	<u>In Progress</u> - Once the preceding years MS4 Annual Report has been completed, a copy will be published on the City's public website. A copy of the report is available at: <a href="https://www.cityofdenhamsprings.com/Documents/DocumentResources/Phase%20II%20MS4%20Annual%20Report%20(2022-2023).pdf">https://www.cityofdenhamsprings.com/Documents/DocumentResources/Phase%20II%20MS4%20Annual%20Report%20(2022-2023).pdf</a>	The city will provide a copy of the MS4 Annual Report on the City's public website throughout the calendar year. The website will be updated to include the report for the previous year and shall be available to the public by April 1 <sup>st</sup> of the calendar year
Illicit Discharge Detection and Elimination	Establish an Ordinance addressing Illicit Discharges to the MS4	Develop and implement a storm water ordinance which addresses illicit discharges to the MS4.		3-10-03	<u>Completed</u> - Enforcement of requirements is on-going throughout the year by the city permit office. A copy of the ordinance is provided in Attachment F. Details on the receiving water body are provided in Attachment J.	The City will continue to enforce the established storm water ordinance, which addresses illicit discharges to the MS4, throughout the year
Illicit Discharge Detection and Elimination	Develop a Stormwater Management Map of the MS4	Develop a detailed map of the MS4 service area which lists the location and name of all outfalls and identifies the locations of all waters of the state that receive discharges from those outfalls, and any major structural controls.	Revised	11-01-21	<u>Completed</u> - A detailed map of the MS4 service area has been prepared by the city's stormwater consultant. A copy of the current map is included as Attachment B. The map was updated in March to identify potential sources of illicit discharges within the MS4 service area	The developed map of the MS4 service area will continue to be updated to identify the location and name of all outfalls and waters of the state that receive discharges from those outfalls, along with any major structural controls



Illicit Discharge Detection and Elimination	Develop and Implement a Stormwater Monitoring Program	Develop a program to sample, test and routinely monitor discharges from the MS4	Revised	11-01-21	<u>In Progress</u> - A monitoring program has been developed and implemented for the MS4. Details on the required monitoring locations, frequency of inspections/samples, and program budget have been prepared. A copy of the Monitoring Program and Sampling Results is included as Attachment C and K. The SWMP has also been updated accordingly	The completed monitoring program will be conducted throughout the year in accordance with the program guidelines. Sampling results will be included in the 23-24 Annual Report.
Illicit Discharge Detection and Elimination	Update the MS4 Storm Water Management Map with Existing and Newly Constructed Controls	Update the map of the MS4 service area with the location and details on new structural controls (retention basins, detention basins, major infiltration devices, etc.).	Revised	11-01-21	<u>In Progress</u> – The map was updated in March to identify potential sources of illicit discharges within the MS4 service area	The developed map of the MS4 service area will continue to be updated to identify the locations and names of all outfalls and waters of the state that receive discharges from those outfalls, along with any major structural controls
Illicit Discharge Detection and Elimination	Provide education material detailing hazards of illicit discharges as a utility bill insert	Distribute 1,000 utility bill inserts, three (3) separate times a year	Revised	5-01-19	<u>In Progress</u> – Distribution of informational brochures included mail-outs on flood plain management, handouts during outreach events, attachments provided with development applications, and brochures provided at the city permit office. A copy of the brochures is provided in Attachment G.	Distributions via utility bill inserts will be mailed out during the year with Rick Foster (City Building Official) preparing the brochures and coordinating the mail-outs in May, August and November. The target number of mailouts is 2,000 in May, 2,000 in August and 2,000 in November.
Illicit Discharge Detection and Elimination	Provide education material detailing hazards of illicit discharges at city hall	Distribute a minimum of 150 educational pamphlets, brochures, leaflets, etc. during the calendar year	Revised	1-01-16	<u>Completed</u> - Educational pamphlets are currently available at the City Permit Office. Approximately 50 hand-outs were distributed and 5,100 mailouts distributed for the 2022 calendar year	The city will continue to provide educational pamphlets, brochures, leaflets, etc. at city hall. An estimated 50 hand-outs are expected to be distributed during the calendar year
Illicit Discharge Detection and Elimination	Install Storm Water Identification Medallions on Catch Basins	Install storm water medallions on roadside catch basins		2018	<u>In Progress</u> – Installation of storm water medallions on roadside catch basins were not completed during the 2022-2023 calendar year	Rick Foster, city building official, will coordinate a community service event which will aim to install a min. 100 stormwater medallions on storm drainage inlets throughout the MS4
Construction Site Storm Water Runoff Control	Establish an Ordinance addressing Storm Water Runoff Control for Construction Sites	Develop, implement, and enforce a storm water ordinance which addresses requirements for controlling storm water from construction sites.		3-10-03	<u>Completed</u> - Enforcement of requirements is on-going throughout the year. A copy of the ordinance is provided as Attachment A	The City will continue to enforce the established storm water ordinance, which addresses illicit discharges to the MS4, throughout the year



Construction Site Storm Water Runoff Control	Review of Development Plans prior to the Start of Earth-Disturbing Activities	Complete a review of the proposed plan of development for all projects within the MS4 which involve earth-disturbing activities		10-12-14	<u>Completed</u> - Review of plans is on-going throughout the year. Attachment D includes details on inspections completed by the City for the 2022-2023 calendar year. Details on completed inspections is provided in Attachment H.	The City will continue to review development plans as part of the permitting review throughout the year
Construction Site Storm Water Runoff Control	Complete Routine site Inspections of All Construction Sites	Complete a minimum of two (2) site inspections for all projects within the MS4 which involve earth-disturbing activities		10-12-14	<u>In Progress</u> - Though site inspections are completed throughout the year, the City inspection policy is being revised to specify a minimum of two (2) site inspections for each project.	The City inspector will complete a minimum of two (2) site inspections for each permitted project
Construction Site Storm Water Runoff Control	Include Educational Materials on Stormwater Pollution with all Construction Permits	Provide educational materials on preventing stormwater pollution with all construction permits issued throughout the calendar year		1-01-19	<u>In Progress</u> – The City Permit Office (office of Rick Foster, City Building Official) provides stormwater pollution educational materials with issuance of all pertinent construction projects. Approximately 25 pamphlets were distributed during the 2022 calendar year.	The City will continue to provide educational materials on preventing stormwater pollution with all construction permits issued throughout the calendar year
Construction Site Storm Water Runoff Control	Develop and Implement a Stormwater Monitoring Program	Develop a program to sample, test and routinely monitor discharges from the MS4	Revised	11-01-21	<u>In Progress</u> - A monitoring program has been developed for the MS4. Details on the required monitoring locations, frequency of inspections/samples, and program budget have been prepared. A copy of the Monitoring Program and Sampling Results is included as Attachment C and K. The Stormwater Monitoring Map was updated in October, 2022.	The completed monitoring program will be conducted throughout the year in accordance with the program guidelines. Sampling results will be included in the 23-24 Annual Report.
Post-Construction Storm Water Management in New Development and Redevelopment	Establish an Ordinance Addressing Storm Water Runoff Control for Sites Post-Construction in New Development and Redevelopment	Develop, implement and enforce a storm water ordinance which defines requirements for controlling storm water from construction sites in the post-development condition.		3-10-03	<u>In Progress</u> - Enforcement of requirements is on-going throughout the year. A copy of the ordinance is provided as Attachment A	The City will continue to enforce the established storm water ordinance, which addresses illicit discharges to the MS4, throughout the year
Post-Construction Storm Water Management in New Development and Redevelopment	Review of Development Plans for Post-Construction Controls	Complete a review of the proposed plan of development for all new development and redevelopment projects to ensure adequate post-construction controls are provided		10-12-14	<u>In Progress</u> - Review of plans is on-going throughout the year. Attachment D includes details on the number and type of plan reviews completed by the City for the 2022-2023 calendar year.	The City will continue to review development plans as part of the permitting review throughout the year



Post-Construction Storm Water Management in New Development and Redevelopment	Complete Routine Inspections of All New Development and Redevelopment Construction Sites	Complete a minimum of one (1) site inspection a minimum of six (6) months after the completion of construction for all projects within the MS4 which involved earth-disturbing activities		3-10-03	<u>In Progress</u> - Though site inspections are completed throughout the year, Rick Foster has issued a memorandum defining requirements for inspections is revising the city inspection policy to specify a minimum of one (1) site inspection to be completed a minimum of six (6) months after completion of site stabilization. Attachment D includes details on inspections completed by the City for the 2022-2023 calendar year. Details on completed inspections is provided in Attachment H.	The City inspector will complete a minimum of one (1) site inspection a minimum of six (6) months after the completion of construction for all projects within the MS4 which involved earth-disturbing activities
Post-Construction Storm Water Management in New Development and Redevelopment	Update the MS4 Storm Water Management Map with Existing and Recently Constructed Structural Controls	Update the map of the MS4 service area with the location and details on new structural controls (retention basins, detention basins, major infiltration devices, etc.).	Revised	11-01-21	<u>In Progress</u> - The map was updated in March to identify potential sources of illicit discharges from new developments and redevelopments within the MS4 service area	The developed map of the MS4 service area will continue to be updated with the location and details on new structural controls
Post-Construction Storm Water Management in New Development and Redevelopment	Develop and Implement a Stormwater Monitoring Program	Develop a program to sample, test and routinely monitor discharges from the MS4	Revised	11-01-21	<u>In Progress</u> - A monitoring program has been developed for the MS4. Details on the required monitoring locations, frequency of inspections/samples, and program budget have been prepared. A copy of the Monitoring Program and Sampling Results is included in Attachment C and K. The Stormwater Monitoring Map was updated in October, 2022.	The completed monitoring program will be conducted throughout the year in accordance with the program guidelines. Sampling results will be included in the 23-24 Annual Report.
Pollution Prevention/Good Housekeeping For Municipal Operations	Develop and Implement an Operations Program for City Personnel to Prevent Discharge of Pollutants into the MS4	Develop, implement and enforce a city operations program which defines procedures and requirements for preventing the discharge of pollutants into the MS4.		3-07-19	<u>In Progress</u> - The manual has been prepared and is provided by Rick Foster to applicable city personnel during discussions/presentations on pollution prevention. A copy of the Municipal Operations Manual is provided in Attachment E.	The completed City Operations Manual will continue to be provided to applicable city personnel in conjunction with pollution prevention discussions/presentations by Rick Foster
Pollution Prevention/Good Housekeeping For Municipal Operations	Hold a workshop for City Personnel on Preventing Introduction of Pollutants into the MS4	Develop and implement a workshop to train city personnel on procedures and requirements for preventing discharge of pollutants into the MS4		3-07-19	<u>In Progress</u> - Rick Foster (City Building Official) is preparing a workshop to be held each year for appropriate city departments	Each year a workshop will be held for appropriate city departments to discuss procedures and requirements for preventing discharge of pollutants into the MS4



Pollution Prevention/Good Housekeeping For Municipal Operations	Implement a Community Service Litter Detail	Operate a community service litter detail which picks-up trash, debris, etc. from city roadways		3-05-15	<u>In Progress</u> - Each year the City operates a community service litter detail. In 2022 an estimated 10,253 hours were spent picking-up trash from within the MS4, with an estimated 1,186 CY of contaminants being removed	Under the guidance of Mr. George Lathers, Street Dept. Supervisor, the city will continue to operate a community service litter detail which focuses on the removal of trash, debris, etc. from city roadways.
Pollution Prevention/Good Housekeeping For Municipal Operations	Implement a Program to Removing Trash, Debris, etc. from City Streets	Operate a city operations program to clean dirt, debris, etc. from city streets.		3-05-15	<u>In Progress</u> - Each year the City Street Department operates a Street Sweeper program. In 2021 more than \$8,510 was expended and more than 845 miles of roadway were cleaned. An estimated 1,460 CY of contaminants were removed for the 2022 calendar year	The City Street Department will continue to operate a street sweeping program to clean dirt, debris, etc. from city streets throughout the year
Pollution Prevention/Good Housekeeping For Municipal Operations	Implement a program for the Maintenance of Roadside Drainage Ways	Implement a city operations program to complete drainage improvement projects on drainage ways throughout the MS4.		3-05-15	<u>In Progress</u> - Each year the City Drainage Department maintains city drainage ways. In 2022 more than \$218,901 was expended on repairs to the city drainage system	The City Drainage Department will continue to complete improvement projects to maintain and improve the city's drainage system. Several projects are proposed for completion in the 2022 calendar year.

#### D. TMDLs

Per the Final TMDLs for Fecal Coliform Bacteria for the Subsegments in the Lake Pontchartrain Basin, Louisiana, dated March 30, 2012, the City of Denham Springs MS4 outfalls into two (2) subsegments of the Lake Pontchartrain Basin, Subsegment 040302 and 040304. TMDL's have been approved for each of these subsegments with the suspected sources of impairment identified as on-site treatment systems (septic systems and similar decentralized systems).

In order to mitigate the negative impacts of existing onsite treatment systems (septic systems and similar decentralized systems) and sanitary sewer overflows (collection system failures), the City of Denham Springs has expanded the existing City wastewater collection system and updated the treatment facility to increase the quality of discharge from the plant. The 18 million dollar project included construction of a new, state-of-the-art plant, capable of purifying up to 6 million gallons per day. The sewer district has expanded its collection system to include an additional 2,700 residential homes and multiple commercial businesses. These new customers are no longer served by underperforming small community treatment plants or septic systems. When operating at full capacity, it is estimated the new plant will remove an additional 2.3 tons of contaminants from the Grays Creek watershed every day.

In order to ensure the receiving waters for the city MS4 are being adequately protected, the city continuously completes actions to identify and eliminate the discharge of pollutants into the environment. These actions include enforcing



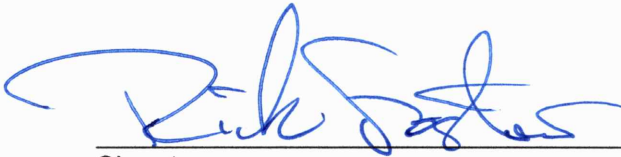
established stormwater regulations, completing routine stormwater quality monitoring of drainage outfalls throughout the MS4, maintaining a map of drainage outfalls and structural controls, and providing educational materials to area residents on the hazards of pollutants entering MS4. Additional details on these measures are provided in Table 1.

As noted, in order to address the suspected sources of contamination to the MS4 receiving waters, the City has established multiple BMPs designed to prevent the discharge of pollutants into the MS4. More specifically, the city sewer department has completed an extensive expansion of the sanitary sewer collection and treatment system. Samples of the effluent from the sewer treatment plant are taken twice a week to ensure the treatment provided is consistent with permit limits and that the appropriate amount of contaminants are being removed from the influent. These samples are analyzed and if necessary adjustments to the treatment system are implemented. Continued expansion of the centralized sanitary sewer system will result in reduction of the identified suspected sources of contaminants (decentralized sanitary systems) which results in significant improvements to the receiving waterways.

These actions (BMPs) have been implemented in order to reduce the discharge of pollutants into the MS4, which help reduce the impairments of the above referenced subsegments of the Lake Pontchartrain Basin watershed. The BMPs help reduce Total Suspended Solids (TSS) in the city's waterways, help identify illicit discharges which may introduce pollutants into the waterway which directly or indirectly worsen DO and/or Fecal Coliform related issues, and provides guidance on how pollution prevention procedures are to be implemented and maintained throughout the year. The stormwater monitoring program implemented in the 2022-2023 calendar year will be used to quantify the effect the implemented BMPs has made in reducing impairments within the watershed. Though each sample collected will immediately identify pollutants of concern in the waterway, the results from samples collected in subsequent years will also be utilized to determine the effectiveness of the BMPs which have been put into place.

**E. Certification**

I certify under 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 person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted 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.



\_\_\_\_\_  
Signature

\_\_\_\_\_  
July 24, 2023

Date

\_\_\_\_\_  
Rick Foster

Name (printed)

\_\_\_\_\_  
Building Official

Title

## **TABLE OF ATTACHMENTS**

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<b>ATTACHMENT B</b>	<b>CITY OF DENHAM SPRINGS STORM WATER MANAGEMENT MAP</b>
<b>ATTACHMENT C</b>	<b>CITY OF D. S. STORM WATER MONITORING PROGRAM AND MAP</b>
<b>ATTACHMENT D</b>	<b>CITY OF DENHAM SPRINGS 2021-2022 MS4 SUMMARY</b>
<b>ATTACHMENT E</b>	<b>CITY OF D.S. MUNICIPAL OPERATIONS MANUAL</b>
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**ATTACHMENT A**

**CITY OF DENHAM SPRINGS**

**STORM WATER ORDINANCE**

A copy of the City of Denham Springs Stormwater Ordinance is available online at:  
[https://library.municode.com/la/denham\\_springs/codes/code\\_of\\_ordinances?nodeId=COOR\\_CH115STMA](https://library.municode.com/la/denham_springs/codes/code_of_ordinances?nodeId=COOR_CH115STMA)

**ATTACHMENT B**

**CITY OF DENHAM SPRINGS**

**STORM WATER MANAGEMENT MAP**





**ATTACHMENT C**

**CITY OF DENHAM SPRINGS**

**STORM WATER MONITORING PROGRAM**



## **CITY OF DENHAM SPRINGS STORM WATER MONITORING, TESTING, AND REMEDIATION PROGRAM**

The purpose of this program is to protect and promote the health, safety, and general welfare of the citizens of the City of Denham Springs through the regulation and enforcement of non-storm water discharges to the MS4 System to the maximum extent practicable as required by federal and state law. Detailed below are the policies and procedures city officials or designated representatives are to follow in order to ensure existing storm water policies are being upheld, and to address noncompliance.

### **1. Storm Water Monitoring Map (SWMM)**

The Storm Water Monitoring Map (Exhibit 4) includes and numerically designates areas where monitoring is to be completed. The locations identified on the SWMM shall be chosen based on the highest likelihood of illicit connections. The locations shall be evaluated regularly and updated/adjusted as necessary based on changes in conditions or the identification of impacted reaches. The map shall serve as a resource to guide city officials and representatives as to the specific location wet and dry weather monitoring is to be completed.

If a stormwater inspection identifies the presence of pollutants, the Storm Water Monitoring Map shall be evaluated and adjusted as necessary to ensure future releases of the identified pollutant(s) is prevented to the maximum extent practical.

Evaluation and/or modification of the SWMM shall be completed within 30 calendar days of any identified release.

### **2. Potential Contaminants**

Potential contaminants that may be detected may include, but are not limited to:

- Fecal coliform
- Heavy Metals (Mercury, Lead, and Chromium)
- Chloride
- Oxygen demanding waste
- Nitrite/Nitrate
- Phosphorus
- Sulfate
- Water Soluble Organics
- Alkali Earth Metals (Sodium, Potassium, and Calcium)

### **3. Potential Illicit Discharges**

Potential Illicit Discharges to the MS4 system may include, but are not limited to:

- Sanitary wastewater
- Effluent from septic tanks

- Car wash wastewaters
- Improper oil disposal
- Radiator flushing disposal
- Laundry wastewaters
- Spills from roadway accidents
- Improper disposal of auto and household toxics

#### 4. Monitoring Goals

The goal of the Storm Water Monitoring Program is to identify any Illicit Discharges to the City of Denham Springs MS4 System. A comprehensive approach will be taken to protect the citizens and environment of the City of Denham Springs from Illicit Discharge into local waterways.

#### 5. Monitoring Procedures

All sampling and testing shall be conducted in accordance with test procedures approved under 40 CFR Part 136. A representative of the City of Denham Springs will complete routine inspections at the locations designated on the Storm Water Monitoring Map, with the purpose of noting erosion or sedimentation problems as well as visual inspections of effluent samples for color, clarity, and the presence of foam, oil, debris, or noxious odors. Water quality samples shall be collected as water flows to the receiving body as practical in order to evaluate dissolved oxygen, temperature, pH, and other pollutants of concern.

- Evaluation at each sampling location identified on the Stormwater Monitoring Map shall be completed a minimum of three (3) times each calendar year. Inspections and collection of samples shall be completed for both wet and dry weather conditions.
- Dry weather field screening shall be completed for non-stormwater flows and field tests of selected chemical parameters as indicators of discharge sources as detailed below.

##### 1. Dry Weather Screening Location and Schedule

City of Denham Spring's personnel or their representative (sample team) shall screen outfalls in accordance with the MS4 Stormwater Management Plan (SWMP) Best Management Practice MCM 3 - BMP#3. In the event a potential illicit discharge is observed, remediation procedures as detailed in Section 9 below shall be taken. Outfalls sampled during each calendar year shall be noted in the Storm Water Monitoring Log and detailed in the MS4 Annual Report.

##### 2. Field Screening/Sampling Procedures

- Weather Conditions:* Dry Weather Screening shall take place during dry weather conditions (i.e. no rain event for 72 hours previous to sample event). If there is no flowing water at the time of field screening, the sample team shall record "no flow observed." If flow is observed, the sample team shall perform visual/chemical/bacteriological monitoring (as described below) to determine if there is an illicit discharge.
- Visual Monitoring:* Sample team shall record the following observations about the discharge at the outfall using the inspection checklist provided in the Storm Water Monitoring Log:
  - Look for obvious illicit connections to the receiving water way, such as a small diameter drainage pipe.
  - Any outfalls discharging into the receiving water way during dry weather conditions shall be noted on the inspection checklist. Describe the location and note the GPS location.
  - Visually inspect the discharge and complete an MS4 Inspection Checklist for the inspection location. Note findings in the Storm Water Monitoring Log.



- Visually inspect discharge for biological indicators including: emergent vegetation, algae blooms, lack of or stunted vegetation, presence or absence of aquatic life, and fish kills. Note findings on the Storm Water Monitoring Log.
- c) *Chemical Monitoring*: If visual observations indicate the presence of a potential pollutant(s), remediation procedures as detailed in Section 9 below shall be taken.
- d) *Extended Chemical Monitoring*: Sample team shall collect additional samples for other parameters if more information is required to identify potential pollutants. The additional parameters sampled may include, but are not limited to: Ammonia, Metals, Volatile Organic Compounds, Semi-volatile Organic Compounds, Pesticides, Herbicides, or any other water priority pollutants.

### 3. Baseline Limits for Sampling Parameters

If dry weather field sampling detects limits of the above-mentioned parameters that exceed the baseline limits described in the Baseline for Sampled Parameters (below), an illicit discharge is likely, and an attempt to trace the source using the procedures outlined in Section 9 below must be performed. The following parameters were chosen to address the potential contaminants most likely to be found, including wastewater, wash water, construction site runoff, and industrial contaminants.

### 4. Quality Assurance/Quality Control (QA/QC) Procedures

- a.) *Confirmation*: All visual observations must be confirmed by at least two sample team members. Field test must be performed twice if a baseline level is exceeded to confirm positive results.
- b.) *Equipment*: Probe(s) may be used to measure temperature, pH, and conductivity.
- c.) *Probes*: Any probe used to measure temperature, conductivity, and pH shall be calibrated and documented at the start of each day when sampling will take place. Readings should be taken directly in outfall flow, if possible. All probes should be washed with deionized water before and after a reading is taken. If in-flow sampling is not possible, then a container or bucket should be used to collect a sample to take readings. The bucket should be rinsed twice with flow from outfall and readings taken on the third fill.
- d.) *Colorimeter or Test Kits*: Containers used to test samples in the colorimeter or test kits must be rinsed twice with sample water before a sample is analyzed. Manufacturer's directions should be followed for all reagents used. After a sample has been analyzed, the container should be rinsed with distilled water. All reagent waste must be disposed of properly. Reagents will be checked and replaced prior to expiration.
- e.) *Fecal Coliform Procedure*: Fecal Coliform samples must be taken directly in the outfall flow in a sterilized container to avoid contamination. Samples will be dechlorinated with Sodium Thiosulfate, and stored in cooler with ice. Samples will be processed within eight (8) hours of the event. Fecal samples may only be performed once at applicable outfalls during sampling event due to cost and lab scheduling considerations. Fecal Coliform samples will be taken to a local Louisiana-accredited contract laboratory.

### 5. Sample Team and Training

The sample team will consist of two or more people. The City Building Official will ensure that Sample Team members will be trained on the procedures described herein prior to performing dry weather screening. The City Building Official will train staff internally or send staff to similar training being conducted locally.

### 6. Data Collection and Reporting

The sample team will be responsible for collecting all dry weather screening data, keeping a copy on site and including a copy in the Annual Report. Should a suspected illicit discharge be detected through the dry weather screening program, it will also be the responsibility of the Sample Team to notify the City Building Official who will initiate source tracing procedures as described herein.



- C. Stormwater collected during the inspections shall be visually evaluated for color, clarity, and the presence of foam, oil, debris, or noxious odors.
- D. Visual inspections of all receiving water bodies identified on the Stormwater Monitoring Map shall be completed a minimum of three (3) times each calendar year. These inspections shall be to identify any erosion or sedimentation concerns. Instantaneous (*in situ*) water quality measurements shall be taken of the receiving water body and evaluated for dissolved oxygen, temperature, pH, etc.;
- E. Regular inspections of storm drains, major canals, or junctions shall be completed a minimum of three (3) times each calendar year;
- F. Storm water discharges shall be collected and evaluated for pollutants of concern a minimum of three (3) times each calendar year.

These inspections shall be completed in order to assist in identifying Illicit Discharges and taking corrective actions to prevent the discharge of pollutants to the MS4. The inspections shall be completed at least three (3) times each calendar year, for each inspection location, and shall include evaluation of both wet and dry conditions.

The dry weather inspections will be conducted at least 48 hours after the last runoff-producing rain event. An MS4 Inspection Checklist form shall be completed for every location and inspection. The Checklist shall include the location of the inspection, a description of the outfall, physical indicators of illicit discharge, and an illicit discharge status.

If the Checklist indicates the risk for Illicit Discharge is Suspect (Section 5 of the Checklist), then further testing and investigation will be required.

## 6. Testing Goals

The goal of the Testing Program is to ensure that Suspect Illicit Discharges are thoroughly tested and investigated to determine the possible presence, nature, and severity of the discharge.

## 7. Testing Procedures

All sampling and testing shall be conducted in accordance with test procedures approved under 40 CFR Part 136. If a location is found to have Suspect Illicit Discharges, then additional testing shall be completed. A city official or designated representative will collect a sample(s) at the outfall location. Collection of samples shall follow standard Storm Water sampling procedures such as in, but not restricted to, *Standard Methods for the Examination of Water and Wastewater*. This sample will be sent to an EPA certified Private Laboratory for further testing regarding potential contaminants.

## BASELINES FOR SAMPLED PARAMETERS

PARAMETER	BASELINE LIMIT	CONSIDERATIONS	POTENTIAL SOURCE OF CONTAMINATION
pH	<6.0 or > 9.0	pH at outfalls is typically between 7.0 and 8.0	<p>Low pH – Industrial activities including metal plating, metal finishing/fabrication, fertilizer / pesticide application runoff, industrial wastewater spill, or illegal discharge</p> <p>-----</p> <p>High pH – Industrial activities including aircraft depainting, metal plating, concrete wastewater, industrial wastewater spills, or illegal discharge</p>
Conductivity	300 umho/cm (Residential) 2000 umho/cm (Industrial)	Saline waters will have a higher conductivity	Presence of contaminating ions from wastewater (sanitary or industrial)
BOD	45	Biochemical Oxygen Demand	Industrial wastewater, cooling tower discharge, steam condensate, or other industrial process water
TOC	<50 mg/L	Total Organic Carbon	Water Soluble Organics
Anions	<10 mg/L	Anions (Chloride, Nitrate/Nitrite, Fluoride, Sulfate)	Salt water, Industrial Activity and/or Sewer Water Intrusion
T. Phosphorus	<10 mg/L	Total Phosphorous	Fertilizer runoff
Surfactants/ Detergents	>0.25 ppm (Residential) >5.0 ppm (Industrial)	Presence of suds or large quantities of bubbles is indicator.	Industrial and household wash water, wastewater
Total Suspended Solids (TSS)	45		Discharge from construction sites
Fecal Coliform	400	Fecal Coliform in excess of standards could be the result of discharges from sewer treatment systems	On-site treatment systems, package sewer plants, or other small flow discharges

## INDICATOR PARAMETERS USED TO IDENTIFY ILLICIT DISCHARGES

Parameter	<u>Discharge Types That Can Be Detected</u>				Laboratory/Analytical Challenges
	Sewage	Wash Water	Tap Water	Industrial or Commercial Liquid Wastes	
Alkali Earth Metals	⊖	○	○	●	May need to use two separate analytical techniques, depending on the concentration
Ammonia	●	⊖	○	⊖	Can change into other nitrogen forms as the flow travels to the outfall
Chlorine	○	○	○	⊖	High chlorine demand in natural waters limits utility to flows with very high chlorine concentrations
Color	⊖	⊖	○	⊖	
Conductivity	⊖	⊖	○	⊖	Ineffective in saline waters
Detergents Surfactants	●	●	○	⊖	Reagent is a hazardous waste
Fecal Coliform	⊖	○	○	○	24-hour wait period for results
Fluoride*	○	○	●	⊖	Reagent is a hazardous waste. Exception for communities that do not fluoridate their tap water
Hardness	⊖	⊖	⊖	⊖	
Heavy Metals	⊖	⊖	○	●	
pH	○	⊖	○	⊖	
Turbidity	⊖	⊖	○	⊖	

- Can almost always (>80% of samples) distinguish this discharge from clean flow types (e.g. tap water or natural water). For tap water, can distinguish from natural water.
- ⊖ Can sometimes (>50% of samples) distinguish this discharge from clean flow types depending on regional characteristics, or can be helpful in combination with another parameter
- Poor indicator. Cannot reliably detect illicit discharges, or cannot detect tap water

N/A Data are not available to assess the utility of this parameter for this purpose,

- \* Fluoride is a poor indicator when used as a single parameter, but when combined with additional parameter (such as detergents, ammonia and potassium), it can almost always distinguish between sewage and wash water



## 8. Remediation Goals

The goal of the Remediation Program is to remove Illicit Discharges from the City of Denham Springs MS4 System and prevent future discharges to the maximum extent practical.

## 9. Remediation Procedures

If the Private Laboratory and the City of Denham Springs conclude that there is Illicit Discharge into the City of Denham Springs MS4 System, steps shall be taken to address the Illicit Discharge. Standard procedures will be followed in this process, such as those outlined in Chapter 8 of the *Illicit Discharge Detection and Elimination Guidance Manual* ([https://www3.epa.gov/npdes/pubs/idde\\_manualwithappendices.pdf](https://www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf)). When necessary, this may include further testing to determine the exact cause and location of the Illicit Discharge, as well as cooperation with other private or public entities.

### 1. Illicit Discharge Source Tracking

- a.) *Drainage Area:* Upon identification of an illicit discharge, City of Denham Springs staff shall review the Storm Water Monitoring Map and determine flow path of the respective storm sewer, to upstream industrial or municipal activities and identify possible sources within the drainage area.
- b.) *Observation:* City of Denham Springs staff shall perform field work, to include site visits at potential upstream sources to observe activities, sources, and locations. If observation activities do not locate the source, further actions shall be performed.
- c.) *Upstream Sampling:* City of Denham Springs staff shall determine upstream potential drainage pathways that lead to the outfall where sample results indicate an illicit discharge, and try to collect samples from the storm sewer system. The sample collection shall be methodical, focusing at first on large piping systems, to identify which specific area within the drainage system to investigate further. Upstream sampling shall continue until the source is determined, or efforts result in no detectable discharge.
- d.) *Dye Testing:* If determined necessary, continuous discharges may be investigated using biodegradable dye packs approved for use in waterways.
- e.) *Smoke Testing:* If determined necessary, smoke testing may be used to identify illicit connections between the storm sewer and industrial or sanitary sewer systems.
- f.) *CCTV:* If determined necessary, closed-circuit television may be used in the event other source identification activities prove ineffective.

## 10. Program Evaluation

In order to ensure that remediation procedures are effectively removing illicit discharge from the MS4, an analysis of the Storm Water Monitoring, Testing, and Remediation Program shall be conducted annually, and the results will be included in the Annual Report. The analysis will include the results of dry and wet weather screenings and an analysis of the overall trends in water quality as indicated by the screening and water testing results. It is expected that water quality will improve from year to year as illicit connections are discovered and eliminated, and general awareness is improved.

The appropriateness of locations screened will also be included in the program evaluation. The analysis will also include the number of illicit discharge sources identified, and which method was used to identify the source (dye testing, line televising, field sampling, or inspection). This will allow the City of Denham Springs to determine which method of illicit discharge source tracing is most valuable and efficient. Lastly, the analysis will identify the amount and type of illicit connections removed.



# **EXAMPLE MS4 INSPECTION CHECKLIST**

# MS4 WATERWAY INSPECTION CHECKLIST

## SECTION 1: BACKGROUND DATA

Inspector:	Outfall ID:	
Today's date:	Time of Inspection:	
Temperature (°F):	Rainfall (in.):	Last 24 hours: _____ Last 48 hours: _____
Latitude:	Longitude:	

## SECTION 2: OUTFALL DESCRIPTION

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream (applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 4</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			



**SECTION 3: PHYSICAL INDICATORS FOR FLOWING OUTFALLS ONLY**

Are Any Physical Indicators Present in the flow?  Yes  No (If No, Skip to Section 4)

INDICATOR	CHECK if Present	DESCRIPTION				RELATIVE SEVERITY INDEX (1-3)		
		<input type="checkbox"/> Sewage <input type="checkbox"/> Other:	<input type="checkbox"/> Rancid/sour	<input type="checkbox"/> Petroleum/gas	<input type="checkbox"/> Sulfide	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Green	<input type="checkbox"/> Brown <input type="checkbox"/> Orange	<input type="checkbox"/> Gray <input type="checkbox"/> Red Other:	<input type="checkbox"/> Yellow Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity				<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Petroleum (oil sheen)	<input type="checkbox"/> Suds <input type="checkbox"/> Other:			<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

**SECTION 4: PHYSICAL INDICATORS FOR BOTH FLOWING AND NON-FLOWING OUTFALLS**

Are physical indicators that are not related to flow present?  Yes  No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other: _____	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhabited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other: _____	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

**Section 5: Overall Outfall Characterization (Illicit Discharge Status)**

Unlikely  Potential (presence of two or more indicators)  Suspect (one or more indicators with a severity of 3)  Obvious

**Section 6: Data Collection**

- Sample for the lab?  Yes  No
- If yes, collected from:  Flow  Pool

**Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?**

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**ATTACHMENT D**  
**CITY OF DENHAM SPRINGS**  
**2022-2023 MS4 SUMMARY**

**2022 Annual MS4 Report Info**  
**City of Denham Springs**

<p>Approximate budget for stormwater and MS4 related activities (City costs and Consultant costs for plan reviews, inspections, etc. - just a ballpark number)</p>	<p>Figures provided by Ms. Michelle Hood, city treasurer. (Dollar amounts are approximate)</p> <p><b><u>\$324,213 total expenditures:</u></b></p> <ul style="list-style-type: none"> <li>• \$8,600 – Prepare MS4 report &amp; manage other MS4 details (including LDEQ permit)</li> <li>• \$75,830 – Community service litter detail (city employee salaries, vehicle, fuel/maintenance, trash bags, uniforms, etc.)</li> <li>• \$218,901 – Drainage maintenance projects; includes repairs to drainage system, concrete lined canals, etc.</li> <li>• \$8,510 – Street sweeper (labor, equipment, fuel/maintenance, etc.)</li> <li>• \$12,372 - Water sampling program (Program development, sample collection, sample testing, etc.)</li> </ul>
<p>Number of plan reviews completed in 2022</p>	<p>Plan reviews: Approx. 117 (including all new and select residential &amp; commercial remodel projects, fence, swimming pools, additions, and demolition permits)</p>
<p>Number of inspections completed in 2022</p>	<ul style="list-style-type: none"> <li>• Building &amp; occupancy inspections: 1,667 (includes re-inspection of failed inspections as well as flood damaged structures)</li> <li>• SWPPP inspections: 10 inspections were completed either during other construction inspections or as stand-alone SWPPP inspections utilizing the City’s SWPPP inspection form. Contractors/operators were required to rectify any identified deficiency prior to the inspection being passed and the project moving forward. BMP deficiencies, illicit discharges, missing public notices, etc. were noted on reports during foundation, rough-in, or final inspections for all commercial and residential projects.</li> </ul>
<p>Any compliance actions taken in 2022?</p>	<ul style="list-style-type: none"> <li>• Continued educating contractors on SWPPP manual requirements during plan review in addition to on-site inspections.</li> <li>• There were no STOP-WORK orders issued for non-compliance; however, multiple projects were delayed due to missing or improper BMP’s.</li> <li>• The City discussed with two business owners the City’s MS4 requirements and ensured each had the proper permits to discharge into the City’s MS4 from LDEQ: 111 Bass Pro Blvd (new construction), and</li> </ul>
<p>Summary on the City's efforts to eliminate contaminants from the sewer system</p>	<ul style="list-style-type: none"> <li>• Review project/development plans for code compliance, perform inspections for development/construction, code/ordinance enforcement, ensure federal and state floodplain management regulations are enforced, ensure state stormwater management (MS4) regulations are enforced, etc.</li> <li>• Street Department employees continue to maintain roadside ditches to clear rubbish, silt, and debris.</li> <li>• The City continues to coordinate efforts with DOTD and LPGDD1 to clear clogged storm drains on state highways.</li> </ul>

	<ul style="list-style-type: none"> <li>• Prior to major storm events, the City’s Street Department inspects and clears ditches along streets throughout the city to ensure no trash, rubbish, debris, etc. are present to block or pollute waterways.</li> <li>• The Office of Community Development has approved and begun a large scale project whereby empty lots, lots with abandoned homes, and other similar situations will be acquired utilizing grant awards through the Louisiana Watershed Initiative. This project has the potential to purchase over 100 lots in the area just south of the City’s Spring Park and return them back to a natural floodplain state. To date, 17 properties have been acquired, see attached map. Demolition of structures should begin 2<sup>nd</sup> QTR of 2023. Development of these lots will be prohibited for everything other than bike/pedestrian trails, park/play areas, etc.</li> </ul>
Street Sweeper Program - Days in operation, mileage of roads cleaned, etc.	<p>Figures provided by Mr. George Lathers, supervisor – street department. (no change from 2021)</p> <ul style="list-style-type: none"> <li>• Sweeper operated approximately 2 days per week.</li> <li>• @ 936 miles of roadway cleaned (mileage is approximate)</li> <li>• Sweeper dump-bin emptied 2-3 times per day @ 7 cubic yards of debris per dump</li> </ul>
Community Service Summary - Number of hours road cleaning was performed, miles of streets cleaned, quantity of garbage collected	<ul style="list-style-type: none"> <li>• (see attached sheet, “2022 Community Service Trash Detail”)</li> </ul>
Volunteering projects/results, if any	<ul style="list-style-type: none"> <li>• Keep Livingston Beautiful and Denham Springs Green organizations completed garden and landscape projects in and around the Antique Village, including clearing catch basins and improving stormwater flow.</li> </ul>
Summary on the mailout (grass clippings) which was completed - number sent out, copy of the flier, any responses, etc.	<p>No ‘grass clippings’ fliers mailed in 2022.</p>
OUTREACH	<p>April, 2022: Office of Planning &amp; Development participated in the City’s Spring Festival event. OPD provided stormwater and floodplain management information and hands-on displays for attendees. (ref. photos)</p> <p>May, 2022: City of Denham Springs Floodplain Management brochure (attached) mailed with all water/sewer/garbage utility bills. In addition to floodplain management material, the brochure contains information on the following:</p> <ul style="list-style-type: none"> <li>• No dumping into ditches or streams</li> <li>• Utilizing stormwater protection/erosion control when building</li> <li>• How/When to report illegal dumping activities</li> <li>• Drainage system maintenance</li> </ul> <p>October, 2022: Office of Planning &amp; Development participated in the City’s Spring Festival event. OPD provided stormwater and floodplain management information and hands-on displays for attendees. (ref. photos)</p>



The City has applied for a BRIC grant to improve City Hall's parking lot and landscaping to incorporate/illustrate various cost-effective stormwater infrastructure features such as permeable paving, landscaping alternatives, curbside bioswales, etc.

## 2022 Community Service & Trash Detail

Random Daily hour-total selections from files obtained from the Ward 2 probation officer - David Hooter, (225) 665-5505, and Street Department Supervisor - George Lathers, (225)667-8356.

<u>DATE</u>	<u>HOURS WORKED</u>
1/5/2022	8
1/24/2022	24
2/7/2022	16
2/16/2022	16
3/10/2022	16
3/31/2022	24
4/11/2022	24
4/24/2022	32
5/12/2022	24
5/20/2022	16
6/8/2022	8
6/20/2022	16
7/10/2022	32
7/22/2022	32
8/7/2022	32
8/24/2022	8
9/4/2022	24
9/18/2022	16
10/10/2022	16
10/21/2022	16
11/6/2022	36
11/19/2022	0
12/4/2022	40
12/20/2022	8

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484 total hours from random selection of 24 days

20.17 average hours worked per day based on above selection

141.17 average hours worked per '7-day work week' based on above selection

7,341 total "community service" hours worked for 2019 based on fifty-two '7-day work weeks'

2,912 total supervision hours worked by city employees (David and Ed)

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10,253 total community service hours

**10,253 total hours worked cleaning the city while completing community service.**

**Approximately 2.5-5 miles of street are cleaned daily.**

**Approximately 5-8 cu. yards of trash picked up per day.**

**ATTACHMENT E**

**CITY OF DENHAM SPRINGS**

**MUNICIPAL OPERATIONS MANUAL**





## **CITY OF DENHAM SPRINGS PROCEDURES AND PRACTICES FOR MUNICIPAL OPERATIONS**

Preventing pollutants from entering the MS4 is the most effective way to maintain a clean and healthy waterway. Listed below are the procedures and practices for city municipal operations. These policies are focused on preventing pollution before it happens. Municipal activities such as road maintenance, road repairs and other infrastructure work, automobile fleet maintenance, landscaping and park maintenance, and building maintenance can release pollutants into the city's MS4s. Municipal facilities can also be sources of stormwater pollutants if proper BMPs are not utilized to contain spills, manage trash, and handle non-stormwater discharges. The goal of these procedures and practices is to prevent the discharge of pollutants from city properties and operations.

### **1. GOOD HOUSEKEEPING**

#### **Work Areas Shall be kept Neat and Orderly**

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- a) Clean, tidy organized work spaces reduce the chance for storm water pollution. The accumulation of scrap or waste shall be avoided around all municipal properties and work areas. Operation managers shall prepare and implement procedures for cleaning work areas at the end of each shift.
- b) Any chemical drips, spills, etc. shall be cleaned immediately.

#### **Container Management**

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- a) Containers shall be sealed in accordance with manufacturers' recommendations in secure, sheltered containers appropriate for the material being stored.
- b) Lids and covers shall be kept on securely fastened on all containers unless they are actively being used. An effort shall be made to keep all containers correctly labeled.
- c) Unused containers shall be disposed of or stored in accordance with manufacturers recommendations.

#### **Spill Prevention/Management**

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- a) Drip pans shall be utilized temporarily when necessary. Effort shall be taken to ensure the pans are placed on a firm, level surface so as to prevent tipping and spilling of chemicals. When utilized, pans shall be monitored to prevent overflowing.
- b) If a leak or drip is identified, a drip pan shall be placed under the leak to catch the drips until the source can be effectively addressed.

## 2. MATERIALS MANAGEMENT

### All Supplies, Materials, Equipment, Etc. Shall Be Stored Out of the Weather

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- a) When at all possible, supplies, materials, equipment and vehicles shall be stored in areas which are protected from the weather. To the maximum extent possible these materials shall be securely stored indoors, placed under a shelter, or placed under a roof overhang.
- b) Storage and parking areas shall be located as far as possible from downspouts or storm drain inlets.

### Stored Materials Shall be Covered

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- a) If industrial materials are to be stored in the open, the storage shall be temporary only.
- b) A tarp or other water-proof cover shall be placed over them until they can be moved to a more suitable, permanent location. The tarp shall be checked regularly for tears or loosening by the wind.

### Loading and Unloading Operations Shall be Completed in Protected Areas

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- a) Loading and unloading of supplies and materials shall be performed in a secure areas and when possible, under or within a permanent shelter.
- b) "Skirts" shall be used on loading docks.
- c) Any nearby drainage inlets shall be protected from any spills which may occur. Special care shall be taken to prevent spilling of chemicals during loading or unloading operations.
- d) Chemical absorption mats or pads shall be readily available in case of a chemical spill.

## 3. SPILL RESPONSE

### Spill Management

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- a) Any identified spill shall be reported to the National Response Center (NRC), State Police, City of Denham Springs Fire Department, DEQ, and City of Denham Springs Office of Planning and Development. Calls shall be made as soon as possible.

#### EMERGENCY RELEASE REPORTING CONTACTS

##### Report to:

1. NRC 1-800-424-8802 in directed in EPA chart
  2. La State Police 225-389-2050
  3. City of Denham Springs Fire Department 225-667-8370
  4. La DEQ 225-219-3640 or 225-342-1234
  5. City of Denham Springs 225-667-8326
- b) Washing a spill into the street, ditch or storm drain is strictly prohibited by state and federal regulations and is not permissible.
  - c) Cleaning up of all spills, leaks and drips shall be done immediately, before the spill can be washed away by storm water. "Dry" clean-up methods, such as sweeping, squeegeeing or spreading absorbent pads shall be utilized for clean-up of spills. Every attempt shall be made to clean up spills in its entirety, eliminating any residues which could be carried off in storm water runoff.

- d) An impervious drop cloth or tarp shall be utilized under any activities that might cause dust, scraps, shavings, or drips. The drop cloth or tarp shall be cleaned or replaced and the collected materials properly disposed of upon completion of the activities.

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**Protection of Storm Drains**

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- a) Storm drain inlets shall be protected s necessary to prevent pollutants from entering the drainage system. Appropriate BMPs shall be utilized as necessary to protect the system.

**4. WASTE MANAGEMENT****Disposal of Waste**

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- a) Clean-up wastes will be stored in containers appropriate for the specific material being stored.
- b) If hazardous wastes are to be stored it shall be placed in a container specifically designed for the hazardous material.
- c) Disposal of any waste material shall be completed in a lawful manner, in accordance with federal, state and local requirements.
- d) Efforts will be made to encourage that recycled materials be used when possible.

**Waste Containers**

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- a) All waste containers shall be equipped with a lid or cover to ensure pollutants cannot be washed out due to storm water entering the container.
- b) Storage areas shall be located as far as possible from downspouts or storm drain inlets.

**Storm Drains or Ditches Shall not be Used for Waste Disposal**

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- a) Disposal of wastes in storm drains or ditches is strictly prohibited by state and federal regulations and is not permissible.
- b) Disposal of any waste material shall be completed in a lawful manner, in accordance with federal, state and local requirements.

**Secondary Containment Devices**

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- a) Secondary containment devices such as containment berms, drum/container storage areas, containment pallets, drip trays, etc. shall be utilized whenever possible.
- b) Any stormwater captured in a secondary containment structure may be contaminated and shall be disposed of in a lawful manner, in accordance with federal, state and local requirements.

**5. PREVENTATIVE MAINTENANCE****Inspect Operating Equipment Regularly**

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- a) Every action possible shall be taken to prevent the occurrence of leaks and drips. This includes inspection of all equipment, machinery, etc. for any leaks, drips, corrosion, or loose fittings. The purpose of the inspections is to



identify potential sources of leaking fuel, lubricants, hydraulic fluid, solvents or chemicals which, if not addressed, could pollute the storm water system.

- b) Department heads shall be notified immediately of any leaks, seeps and damage to equipment.
- c) Appropriate actions shall be taken immediately to prevent the leaking materials from entering the storm water system and to repair the source of the pollutant.
- d) Repairs shall be completed immediately once the hazard is identified.

## **6. DUST PRODUCING EQUIPMENT**

### **Dust Control**

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- a) Controlling dust during land disturbing activities is essential in preventing pollutants from leaving the construction area and entering the storm system.
- b) Clean up any particulates that might accumulate near or under dust producing operations such as sawing, grinding, milling, or filing. This applies to outdoor and indoor equipment/operations.
- c) Construction activities shall be sequenced to minimize the amount of disturbed area at any one time.
- d) For dry conditions, sprinkling disturbed areas with water shall be completed to prevent airborne dust particles. Repeat as often as needed to maintain moisture.
- e) Calcium chloride, spray-on adhesives such as anionic asphalt emulsions, latex emulsions, resin in water, acrylic and non-acrylic emulsions, etc. may be utilized as directed by the city engineer and/or his representative.

**ATTACHMENT F**

**CITY OF DENHAM SPRINGS**

**ILLICIT DISCHARGE ENFORCEMENT**

**PROCEDURES**



## **CITY OF DENHAM SPRINGS ENFORCEMENT PROCEDURES FOR ILLICIT DISCHARGES**

Listed below are the enforcement procedures as detailed in Chapter 115 of the City of Denham Springs Code of Ordinances for regulating illicit discharges within the MS4. The specific enforcement measure to be issued for a violation of the City of Denham Springs Stormwater Management Ordinance is dependent upon the severity of the violation and/or site specific details such as type of discharge, rate of discharge, evidence of contamination, past environmental compliance or noncompliance of the operator(s) at the site, and the potential to cause environmental harm as a result of the illicit discharge.

The following non-storm water sources may be discharged from the MS4 and are not required to be addressed as part of the Illicit Discharge Detection and Elimination plan or other minimum control measures, provided that they have not been determined to be substantial sources of pollutants to the MS4:

- Discharges or flows from firefighting activities (excludes predictable and controllable discharges from a firefighting training facility)
- Fire hydrant flushings
- Potable water including: water line flushings using potable water, drinking fountain overflows, lawn watering runoff, and similar sources of potable water
- Uncontaminated air conditioning or compressor condensate
- Residual street wash water and pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed)
- Routine external building wash down which does not use detergents
- Drainage from landscape watering
- Rising ground waters
- Uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20))
- Uncontaminated pumped ground water
- Foundation drains
- Irrigation water
- Uncontaminated spring water
- Water from crawl space pumps
- Footing drains
- Water from individual residential car washing
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Other similar occasional incidental discharges (for example, non-commercial or charity car washes) where such discharges will not cause a problem either due to the nature of the discharge or controls the MS4 places on the discharge. Permittees must identify all types of discharges that will be allowed as occasional incidental discharges and must specify those discharges in the storm water management plan
- Discharges that are in compliance with all applicable federal and state requirements



- The following discharges, unless identified by the building official as a significant contributor of pollutants to the city's MS4: Water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; individual car washing; washing of houses and driveways; flows from riparian habitats and wetlands; swimming pool discharges (if dechlorinated—typically less than one PPM chlorine); street wash water; and discharges or flows from firefighting activities
- Dye testing, provided that verbal notification is given to the building official prior to the time of the test and written approval is given by the building official prior to the test
- Discharges specified in writing by the building official as being necessary to protect public health and safety

Any identified spill shall be reported to the National Response Center (NRC), State Police, City of Denham Springs Fire Department, DEQ, and City of Denham Springs Office of Planning and Development. Calls shall be made as soon as possible.

### **EMERGENCY RELEASE REPORTING CONTACTS**

**Report to:**

1. NRC 1-800-424-8802 in directed in EPA chart
2. La State Police 225-389-2050
3. City of Denham Springs Fire Department 225-667-8370
4. La DEQ 225-219-3640 or 225-342-1234
5. City of Denham Springs 225-667-8326

As listed in Chapter 115 of the City of Denham Springs Code of Ordinances, enforcement procedures are as listed below:

**Sec. 115-12. - Prohibition of illicit discharges.**

- a) No person shall cause or allow any illicit discharge to the city's MS4.

**Sec. 115-13. - Prohibition of illicit connections.**

- (a) The construction, use, maintenance, or continued existence of illicit connections to the city's MS4 is prohibited.
- (b) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (c) This prohibition expressly includes, without limitation, connection of a drain, pipe, or other conveyance that conveys sewage to the city's MS4, or allowing such a connection to continue.

**Sec. 115-14. - Industrial or construction activity discharges.**

- (a) This section applies to all persons and facilities that have or allow stormwater discharges associated with industrial activity, including construction activity.
- (b) Any person or facility subject to an industrial or construction activity LPDES stormwater discharge permit shall comply with all provisions of such permit and all other applicable federal and state requirements.

Proof of compliance with said permit and requirements may be required in a form acceptable to the building official prior to the allowing of discharges to the city's MS4.

- (c) The building official shall have the right to enter and inspect facilities subject to [this] section as often as may be necessary to determine compliance with this article. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to the building official or his representatives.
- (d) Facility operators shall allow the building official ready access to all parts of the premises for the purposes of inspection, sampling, examination, and copying of records that must be kept under the conditions of an LPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.
- (e) The building official may set up on any permitted facility such devices as are necessary in the opinion of the building official to conduct monitoring and/or sampling of the facility's stormwater discharge.
- (f) The building official may require the discharger to install such monitoring equipment as is necessary in the opinion of the building official. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.
- (g) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the facility operator at the written or oral request of the building official and shall not be replaced. The costs of clearing such access shall be borne by the facility owner and operator.
- (h) Unreasonable delays in allowing the building official access to a permitted facility is a violation of this article. The owner and operator of a facility with a LPDES permit to discharge stormwater associated with industrial activity, including construction activity, violates this article if the owner or operator denies the building official reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this article.
- (i) If the building official has been refused access to any part of the premises from which stormwater is discharged, and the building official is able to demonstrate probable cause to believe that there may be a violation of this article, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this article or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the building official may seek issuance of a search warrant from any court of competent jurisdiction.

**Sec. 115-15. - Use of best management practices.**

- (a) The building official may adopt best management practices for any activity, operation, or facility that may cause or contribute to any non-stormwater discharge to the city's MS4, and the facility and its owner and operator shall, at their expense, implement and comply with such BMPs.
- (b) Compliance with all terms and conditions of a LPDES permit authorizing the discharge of stormwater from the facility, and all other applicable federal and state requirements, shall be deemed compliance with this section and any BMPs adopted by the building official.

**Sec. 115-16. - Waterway and watercourse protection.**

- a) Every person owning property through which a waterway or watercourse passes, or such person's lessee, shall keep and maintain that part of the waterway or watercourse within the property free of trash, debris,



excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a waterway or watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the waterway or watercourse.

**Sec. 115-17. - Response; notification; records retention.**

- (a) Notwithstanding other requirements of law, as soon as any owner or operator of a facility, or any person responsible for operations at a facility or responsible for emergency response for a facility or operation, has information of any known or suspected illicit discharge or illicit connection to the city's MS4, said person shall take all necessary steps to terminate such illicit discharge or illicit connection and contain and clean up any pollution that resulted from such illicit discharge or illicit connection.
- (b) Any person with knowledge of a known or suspected release of hazardous materials to or that may enter the city's MS4 shall immediately notify the building official and the city police department of such release via emergency dispatch services. Any person with knowledge of a known or suspected release of nonhazardous materials to or that may enter the city's MS4 shall notify the building official in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the building official within three business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years.



**ATTACHMENT G**  
**EDUCATIONAL MATERIALS /**  
**OUTREACH EVENTS**

## INTRODUCTION

The City of Denham Springs is dedicated to minimizing the loss of life and property that is associated with flooding and storm events. Education and prevention are valuable and proven tools that help communities become resistant to these natural disasters. The City of Denham Springs recognizes that its entire community is susceptible to flooding, not just those structures located within Special Flood Hazard Areas (SFHA). The following information has been provided to help inform property owners located within the SFHA, flood prone areas and also all property owners within the City of Denham Springs.



## WHAT IS MY FLOOD HAZARD?

As floods in our area may occur during any season of the year and a large portion of our area is located in the FEMA Special Flood Hazard Area (SFHA); it is **Very Important to Know Your Flood Hazard**. Flooding in our city is caused by three sources: Grey's Creek and Amite River or flash flooding because of excessive rain in a short time frame. Major floods have occurred in our area in 1973, 1977, 1979, 1983, 1991, 1993, 2001, and 2016. Contact your local Floodplain Management Office for more information about the specific conditions you may face.

## SUBSTANTIAL IMPROVEMENTS REQUIREMENTS

What is a substantial improvement? The National Flood Insurance Program (NFIP) requires that any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the start of the construction of the improvement, must conform or meet the same construction requirements as a new building and be constructed above the minimum Base Flood Elevation (BFE) listed on the City of Denham Springs Flood Insurance Rate Map (FIRM).

What is substantial damage? Substantial damage means damage of any origin sustained by a building or structure when the cost of restoring the building to its pre-damaged condition would equal or exceed 50% of the market value of the building before the damage occurred. Substantial damage is determined regardless of the actual repair work performed.

The City of Denham Springs requires by ordinance that any substantial improvement must have a building permit. Permit information can be obtained at the City of Denham Springs Permit Department by calling (225) 667-8326.

## FLASH FLOOD WARNING SYSTEM

If flash flooding is imminent, the City of Denham Springs residents are notified through local radio and cable television networks. Denham Springs' residents can also receive updated weather information from the National Weather Service Offices in Louisiana.



## HOW CAN I PROTECT MY PROPERTY?

While Purchasing Flood Insurance helps you recover from a flood event, there are steps you can take to help lessen the damage prior to flooding: Contact your local Building Official: The City of Denham Springs' Building Official will be familiar with the particular flooding conditions your area encounters and ways you can protect your property against them. If requested the city will visit your property to review its flood problems and explain ways to prevent flood damage such as retrofitting techniques, help you with local drainage problems and offer you financial assistance advise. (225-667-8326)

**Use Flood resistant materials wherever possible. Elevate:** Place essential components above the flood level.

- Retrofitting measures include:
1. Elevating the building so that flood waters do not enter or reach any damageable portion of it.
  2. Constructing barriers out of fill or concrete between the building and flood waters.
  3. "Dry flood proofing" to make the building's walls and floors watertight so water does not enter.
  4. "Wet flood proofing" to modify the structure and relocate the contents so that when flood waters enter the building there is little or no damage.

A free booklet, "Flood Proofing Techniques, Programs and Reference (1991, 25pp)," is available from:

U.S. Army Corps of Engineers  
National Flood Proofing Committee  
ATTN: CFCW/PF  
20 Massachusetts Avenue  
Washington, D.C. 20314-1000

## HOW CAN I BUILD RESPONSIBLY?

- Contact your local Building Department before you build or alter your property.
- Consult Flood Maps and other FEMA approved publications; Determine the materials, flood level, and construction requirements you may face.
- Follow All Required Building Codes and Zoning regulations: Your home will be safer.
- Illegal building or filling should be reported to your Permit Office

## FLOODPLAIN DEVELOPMENT PERMIT REQUIREMENTS

All development in the City of Denham Springs needs local permits. Contact the City of Denham Springs Permit Department at (225) 667-8326 for advice before you build, till, place a manufactured home or otherwise develop within City limits. The zoning ordinance, flood control ordinance, and the International Building Codes have special provisions regulating the construction and other developments within floodplains. Without these provisions, flood insurance through the National Flood Insurance Program (NFIP) would not be available to property owners in the City of Denham Springs. Any development in the floodplain without a permit is illegal; such activity may be reported to the City of Denham Springs Permit Department.

**Elevation Certificates for newly built structures are also available at the Permit Office.**



## FLOOD INFORMATION AVAILABLE

City of Denham Springs adopted the FIRM with the effective date of April 3, 2012.

Insurance Agents, Lenders, Real Estate Officers and residents of Denham Springs may obtain flood information, flood maps, mandatory flood insurance purchase requirements/inquiries and flood zone determination by visiting the Denham Springs Municipal Building at 116 North Range Ave., Denham Springs, LA 70726.



## WHY DO I NEED FLOOD INSURANCE?

Even a small amount of water can cause significant damage. Flood Damage is Not covered by normal homeowners insurance. You should purchase Flood Insurance to protect your property and make recovery after a flood event easier. To find out more about flood insurance contact any licensed insurance agent. Don't wait for the next flood; there is a 30 day waiting period for coverage to take effect.

For more information about flood insurance contact:

[www.fema.gov/info](http://www.fema.gov/info)  
1-800-638-6620

Contact your flood insurance agent.  
Contact the City of Denham Springs CRS Coordinator  
(225) 667-8326

## WHAT CAN I DO TO PROTECT NATURAL FLOODPLAIN FUNCTIONS?

- **Do Not Dump Anything into ditches or streams:** Each item you dump contributes to flooding.
- **Utilize Storm Water Protection/Erosion Control when Building:** Keeping building debris and pollutants out of the storm drains allow for better overall drainage in our area.
- **Report Illegal Dumping activities or any development in these restricted areas:** Contact your Local Permit Department, if you see illegal activity. It can be reported to (225) 667-8326.

Enjoying delicious seafood or engaging in outdoor activities like hunting or fishing is just a few of the many benefits of maintaining relatively undisturbed Natural Floodplains.



**DRAINAGE SYSTEM MAINTENANCE**

It is illegal in the City of Denham Springs to dump any type of debris into a canal, stream, river, drainage ditches, or any other body of water within the City. This debris can become entangled in culverts, canals, or drainage ditches and impedes drainage, causing the flow of water to back up. Citizens should also keep drainage ditches on their property free of debris, foliage and vegetation that would impede the flow of water. Debris dumping should be reported to the City of Denham Springs by calling the Permit Department at (225) 667-8326.

## ONLINE RESOURCES

- <https://www.fema.gov/national-flood-insurance-program>
- <https://www.floodsmart.gov/floodsmart/>
- <http://water.weather.gov/ahps/>
- <http://www.wafl.com/story/1644744/river-flood-center>
- <http://maps.isaaccenter.com/floodmaps/>
- [http://www.isaaccenter.com/enr/family\\_home/hazards\\_and\\_threats/](http://www.isaaccenter.com/enr/family_home/hazards_and_threats/)
- <https://www.lasacrament.org/sgegal/publications/other/homeowners-handbook/>
- <http://www.uno.edu/chart/noatal.aspx>
- <http://www.mylp.in.gov/flood-information>

## HOW CAN I PROTECT MYSELF IN A FLOOD?

When flood warnings are issued, you should take all necessary steps to protect you and your family.

- **Be prepared to evacuate.**
- **Have an Evacuation Plan:** know where you will go and how to get there before the emergency arises.
- **Have all important documents readily available to take with you in the case of an evacuation.**
- **Do not walk through flood waters:** A few inches of moving water can knock you off your feet.
- **Do not drive through a flooded area:** Do not drive around barriers, the road or bridge may be washed out.
- **Stay away from power lines and electrical wires:** Water and Electricity are a shocking combination. Electrocution is the second leading cause of death during a flood. Report downed power lines to the power company or city emergency management office. Turn off all electrical circuits and gas lines that may come in contact with flood water.
- **Look out for animals, especially snakes.** Small animals are running from flood waters just like you.
- **Carbon monoxide exhaust kills:** Use a generator or other gasoline-powered machine outdoors. Fumes from charcoal are especially deadly; cook with charcoal outdoors only.
- **Be alert for gas leaks:** Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns, or open flames.

For 24/7 service, visit the City of Denham Springs website at:

[www.CityofDenhamSprings.com](http://www.CityofDenhamSprings.com)

10/19



## CITY OF DENHAM SPRINGS FLOODPLAIN MANAGEMENT

Office of Planning & Development

116 N Range Ave

Denham Springs, LA 70726

Office : 225-667-8326

Fax : 225-667-8324

[www.CityofDenhamSprings.com](http://www.CityofDenhamSprings.com)





SPRING FESTIVAL - APRIL 30, 2022  
CITY OF DENHAM SPRINGS



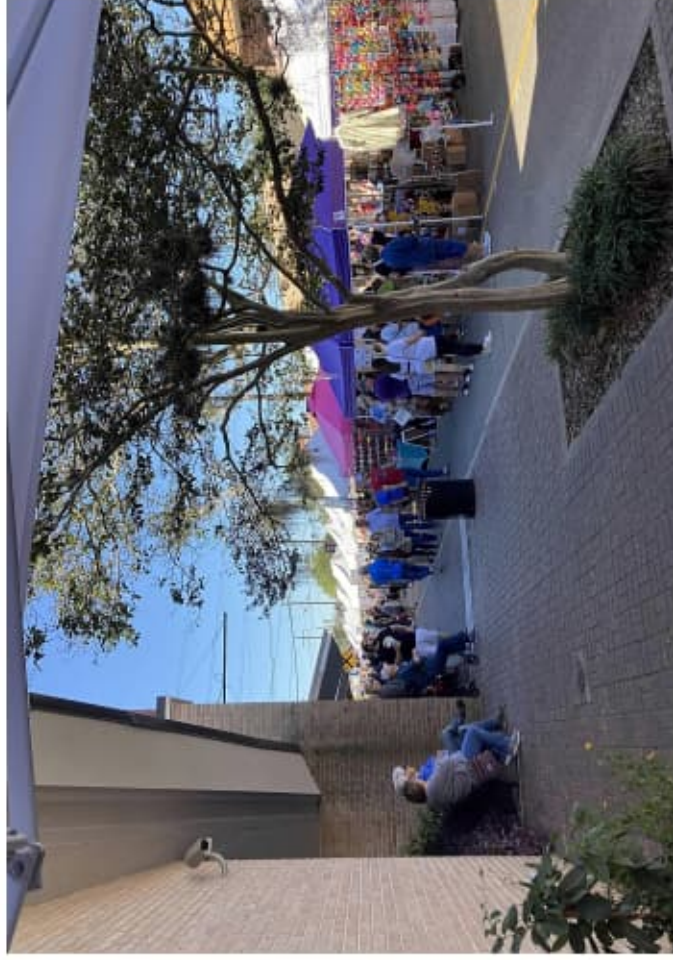


SPRING FESTIVAL - APRIL 30, 2022  
CITY OF DENHAM SPRINGS





FALL FESTIVAL - OCTOBER 1, 2022  
CITY OF DENHAM SPRINGS





FALL FESTIVAL - OCTOBER 1, 2022  
CITY OF DENHAM SPRINGS



**ATTACHMENT H**  
**CITY OF DENHAM SPRINGS**  
**INSPECTION REPORTS**



**City of Denham Springs**  
Office of Planning and Development

# Memo

**To:** Office of Planning & Development employees  
**From:** Rick Foster  
**Date:** July 17, 2023  
**Re:** Post-construction stormwater management procedures (site stabilization)

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Municipal Separate Storm Sewer System permits, or MS4 permits, authorize cities, parishes, or other governmental entities to convey and discharge stormwater collected by their storm sewer systems to waters of the United States. The City's MS4 permit authorizes the City to discharge stormwater into Grey's Creek and the Amite River.

It is the City's responsibility to make every effort possible to reduce the amount of pollutants discharged into these waters. While we currently make at least two stormwater inspections during the construction process for each earth-disturbing activity (new construction, applicable additions, etc.) we must also follow-up to ensure all disturbed soil at these construction sites remains adequately stabilized months after the project is complete.

Effective immediately, upon the issuance of a project's Certificate of Occupancy, a work order shall be created for no less than six months into the future to return and perform this post-construction site inspection and ensure soil stabilization is complete. If a deficiency is observed an NOV shall be created to ensure it is corrected.



Designation1	Site Address	Permit Number	Estimated Value	Issued Date	Permit Fee	Fee Payment	Owner
Commercial: Addition/Change Out	409 N. Range Ave	6289	\$0.00	3/23/2022	\$50.00	\$50.00	Mandi Charlet
	1585 S Range Ave	6368	\$0.00	7/19/2022	\$25.00	\$25.00	Marcos Campablanc
	1291 Florida Ave SW	6503	\$0.00	7/7/2022	\$70.00	\$70.00	Ricky Heroman
	101 Hatchell Lane	6687	\$0.00	7/14/2022	\$25.00	\$25.00	Ricky Heroman
	202 Centerville St NE	6691	\$0.00	7/19/2022	\$50.00	\$50.00	Cox Communications
	101 Hatchell Lane	6752	\$430000.00	4/26/2022	\$197.20	\$197.20	Ernest Cottrill
	240 Range 12 Blvd	6762	\$0.00	1/26/2022	\$25.00	\$25.00	Soul Shine Yoga, LLC - Scott
	2356 S RANGE	6788	\$0.00	2/1/2022	\$20.00	\$20.00	Clint Sandefer
	136 Rushing Rd W	6790	\$0.00	7/14/2022	\$50.00	\$50.00	Crown Castle USA, Inc
	2356 S. Range Ave	6795	\$0.00	7/14/2022	\$60.00	\$60.00	Crown Castle USA, Inc
	245 Florida Blvd	6803	\$0.00	9/26/2022	\$72.00	\$72.00	Nadine' Hair Salon - Nadine Porter
	100 Dixie Street	6815	\$0.00	9/26/2022	\$101.72	\$101.72	Nadine' Hair Salon - Nadine Porter
	1217 N Range	6816	\$0.00	7/20/2022	\$62.00	\$62.00	Marcos Campablanc
	135 Veterans Blvd	6821	\$0.00	8/8/2022	\$176.00	\$176.00	Marcos Campablanc
	3081 S Range Ave	6840	\$0.00	2/21/2022	\$30.00	\$30.00	Soul Shine Yoga, LLC - Scott
	1528 South Range Ave	6923	\$430000.00	8/23/2022	\$18.00	\$20.00	Ernest Cottrill
	8180 Rushing Rd E	6940	\$0.00	2/15/2022	\$29.00	\$29.00	PNP Enterprises, LLC
	121 Bass Pro Blvd	6956	\$0.00	6/2/2022	\$59.00	\$59.00	PNP Enterprises, LLC
	1302 Florida Ave SW	6959	\$0.00	7/11/2022	\$38.00	\$38.00	BIG LOTS
	1712 Florida Ave	6964	\$0.00	8/18/2022	\$259.00	\$259.00	BIG LOTS
100 Dixie Street	6966	\$0.00	10/20/2022	\$44.00	\$44.00	Crown Castle	
168 Del Orleans	6967	\$0.00	6/9/2022	\$50.00	\$50.00	Barraza Properties, LLC - Hector	
141 Aspen Square Ste. A	6998	\$0.00	6/2/2022	\$18.00	\$20.00	Erron Mix	
730 S. Range Ave Ste. 1-A & 1-B	6999	\$0.00	6/22/2022	\$525.00	\$525.00	LA Fireworks - Duke Gronowski	
135 Rushing Rd W	7001	\$0.00	8/16/2022	\$105.00	\$105.00	Chill's Restaurant - Matthew Young	
1160 Hatchell Ln	7092	\$0.00	12/22/2022	\$36.00	\$36.00	Cain Boutique/JOLAS, LLC - Cain	
			<b>\$2220000.00</b>		<b>\$8674.32</b>	<b>\$8,695.32</b>	
Commercial: Demolition	425 Florida Ave SE	6869	\$0.00	4/26/2022	\$20.00	\$20.00	Madden Gulf Coast, LLC. - Matthew Madden
	425 Florida Ave	6870	\$0.00	4/26/2022	\$20.00	\$20.00	Madden Gulf Coast, LLC - Matthew Madden
	425 Florida Ave SE	6873	\$0.00	4/26/2022	\$20.00	\$20.00	Madden Gulf Coast, LLC. - Matthew Madden
	425 Florida Ave SE	6874	\$0.00	4/26/2022	\$20.00	\$20.00	Madden Gulf Coast, LLC - Matthew Madden
			<b>\$0.00</b>		<b>\$80.00</b>	<b>\$80.00</b>	
Commercial: Fence	235 Florida Ave SE	6852	\$0.00	4/11/2022	\$120.00	\$120.00	We Back, LLC - Steve Davis
	426 Florida Ave SE	6922	\$0.00	6/2/2022	\$60.00	\$60.00	Nick's Auto Repair, LLC - An Le
			<b>\$0.00</b>		<b>\$192.00</b>	<b>\$200.00</b>	

# Building Permit Report

City of Denham Springs  
Office of Planning & Dev.

<b>Commercial: New Construction</b>										
1700 S. Range Ave	5873		\$0.00	11/16/2022	\$15402.50	\$15,402.50	Livingston Parish Schools			
1160 Hatchell Ln	6310		\$0.00	10/6/2022	\$50.00	\$50.00	TSM Development, LLC - William Roberts			
111 Bass Pro Blvd	6538		\$0.00	10/13/2022	\$1832.53	\$1,832.53	First Baptist Church Denham Springs			
1200 Robbie St	6607		\$0.00	7/11/2022	\$347.92	\$347.92	First Baptist Church Denham Springs			
200 Yellow Jacket Blvd	6669		\$0.00	10/13/2022	\$50.00	\$50.00	First Baptist Church Denham Springs			
1000 N Range Ave	6761		\$0.00	10/4/2022	\$614.25	\$614.25	Halle Properties, LLC			
27735 La Hwy 16	6926		\$4000000.00	3/28/2022	\$1269.00	\$1,269.00	Carter's Supermarket - Stan Cain			
2302 S. Range Ave	7061		\$0.00	7/27/2022	\$36.00	\$36.00	Livingston Parish School Board - Jimmie Willson			
1110 Ivy Court	6965		\$20000.00	7/21/2022	\$1483.00	\$1,535.00	Eric Mena			
<b>Commercial: Pool</b>										
120 Clinton St	7075		\$0.00	11/16/2022	\$40.00	\$40.00	Brad Jolly			
155 ASPEN SQUARE APT# 29	3071		\$0.00	6/8/2022	\$50.00	\$50.00	Covington & Associates Real Estate, LLC - Kelly			
105 JUDY ST	3203		\$0.00	3/22/2022	\$255.00	\$255.00	N/A			
2224 ELMER ST	3393		\$0.00	3/22/2022	\$40.00	\$40.00	N/A			
1502 Sunset	4572		\$0.00	3/17/2022	\$50.00	\$50.00	James Seidule			
122 BUDLEY ST	4656		\$0.00	3/28/2022	\$50.00	\$50.00	James Seidule			
1114 WANDA AVE	4799		\$0.00	6/8/2022	\$50.80	\$50.80	Jonathan Laurie			
661 JEAN ST	4992		\$0.00	10/13/2022	\$50.00	\$50.00	Jonathan Laurie			
1303 WANDA AVE	5249		\$0.00	10/17/2022	\$20.00	\$20.00	Brittany McDowell			
2080 Jerlyn Dr	5603		\$0.00	8/31/2022	\$25.00	\$25.00	Frank Mire			
206 LASALLE ST	5914		\$0.00	1/12/2022	\$20.00	\$20.00	Valarie Hodges			
554 EAST ST	6002		\$0.00	4/12/2022	\$20.00	\$20.00	Tim Rowland			
563 EAST ST	6003		\$0.00	4/18/2022	\$25.00	\$25.00	Yvonne Stevens			
809 Poplar Street	6187		\$0.00	9/12/2022	\$50.00	\$50.00	Bobby Smith			
2468 Florida Ave	6382		\$0.00	9/19/2022	\$20.00	\$20.00	Sandra Ortega			
930 DON AVE	6675		\$0.00	1/17/2022	\$20.00	\$20.00	LaSalle Enterprise, LLC - Darin			
376 Rushing	6704		\$0.00	2/24/2022	\$12.00	\$12.00	Parris George			
933 Kathryn Drive	6769		\$0.00	7/12/2022	\$34.00	\$34.00	Bobby Smith			
933 Kathryn	6770		\$0.00	8/25/2022	\$40.00	\$40.00	Bobby Smith			
1992 Elmer	6778		\$0.00	5/31/2022	\$40.00	\$40.00	Romelia Rubio			
1058 Maywood	6799		\$0.00	8/17/2022	\$60.00	\$60.00	Romelia Rubio			
	6801		\$0.00	6/20/2022	\$48.00	\$48.00	Juencio Hernandez			
117 WOODLAND ST	6811		\$0.00	6/20/2022	\$174.00	\$174.00	Juencio Hernandez			
2224 Elmer	6837		\$0.00	10/19/2022	\$114.00	\$114.00	Juencio Hernandez			
1425 Lansdowne	6841		\$0.00	7/12/2022	\$80.00	\$80.00	Richard Johnson			
1350 S River Road	6842		\$0.00	5/17/2022	\$204.00	\$204.00	James Seidule			



# Building Permit Report

City of Denham Springs  
Office of Planning & Dev.

2310 Carolyn Ave	6857	\$0.00	5/9/2022	\$6.00	\$20.00	Sam Nickroo
1495 Cottonwood Dr	6882	\$0.00	5/25/2022	\$20.00	\$20.00	Tracie Porter
313 Rose St	6891	\$0.00	6/27/2022	\$18.00	\$20.00	Tracie Porter
650 Jean	6903	\$0.00	4/4/2022	\$20.00	\$20.00	Joan Bordelon
216 Oak St	6925	\$0.00	5/4/2022	\$41.00	\$41.00	Yvonne Stevens
2432 Cavalier Dr	6938	\$0.00	6/20/2022	\$90.00	\$90.00	Yvonne Stevens
8545 Harold Drive	6945	\$0.00	12/19/2022	\$20.00	\$20.00	Yvonne Stevens
1050 Alme Street	7009	\$0.00	10/5/2022	\$64.00	\$64.00	Jonathan Laurie
141 Hickory Street	7017	\$0.00	5/3/2022	\$6.00	\$20.00	Kerry Mendel
1581 N. Woodcrest Ave	7062	\$0.00	5/5/2022	\$20.00	\$20.00	Dedrick Perkins
120 Clinton St	7075	\$0.00	5/19/2022	\$24.00	\$24.00	Bobby Riles
1011 Jason Dr	7104	\$0.00	6/16/2022	\$80.00	\$80.00	Blitter Heating and Air Conditioning
		<b>\$0.00</b>		<b>\$3301.80</b>	<b>\$3,436.80</b>	
111 Rose St	6759	\$0.00	1/18/2022	\$25.00	\$25.00	Chris Prescott
726 Maple St	6768	\$0.00	1/24/2022	\$20.00	\$20.00	St. Frands Episcopal Church - Ed Ballou
223 Hazelnut St	6834	\$0.00	3/29/2022	\$20.00	\$20.00	YAJIS, LLC - Alex Milazzo
543 East St	6805	\$0.00	3/7/2022	\$20.00	\$20.00	Verdeb, Inc - Vernon Phillips
650 Knoll St	7097	\$0.00	1/17/2022	\$20.00	\$20.00	Livingston Parish -Grant Dept
126 Easterly St	7108	\$0.00	11/17/2022	\$20.00	\$20.00	Angele & Patrick Guy
		<b>\$0.00</b>		<b>\$125.00</b>	<b>\$125.00</b>	
1104 Southern Living Ln	7064	\$0.00	10/13/2022	\$20.00	\$20.00	Amanda Ott
1661 Carey Ave	6958	\$0.00	7/11/2022	\$20.00	\$20.00	Eloy Comejo-Perez
216 Oak St	7034	\$0.00	9/15/2022	\$20.00	\$20.00	Darryl Jarreau
308 Beech St	6824	\$0.00	3/22/2022	\$20.00	\$20.00	Enrique Montoya
223 Pine Street	6885	\$0.00	5/4/2022	\$20.00	\$20.00	Michael & Michelle Gonzales
715 Poplar St	7006	\$0.00	8/18/2022	\$25.00	\$25.00	Riva McCay
130 Easterly St	7094	\$0.00	11/1/2022	\$20.00	\$20.00	Maria Hernandez
		<b>\$0.00</b>		<b>\$145.00</b>	<b>\$145.00</b>	
8360 Harold Dr	5958	\$420000.00	4/12/2022	\$940.00	\$940.00	Ann Marie Erie
1414 Don Ave	5974	\$420000.00	4/12/2022	\$40.00	\$40.00	Ann Marie Erie
1107 Camellia Way	6447	\$0.00	7/11/2022	\$1277.00	\$1,277.00	Douglas Searest
1104 Southern Living Ln	6490	\$0.00	7/11/2022	\$40.00	\$40.00	Douglas Searest
507 Sullivan Ln	6592	\$0.00	5/25/2022	\$780.00	\$780.00	Kokesh Construction Inc
1148 Ivy Court	6636	\$0.00	3/9/2022	\$404.00	\$404.00	JT Davidson
2575 Cavalier Ave	6660	\$320000.00	4/19/2022	\$740.00	\$740.00	JMC Builders - John McDowell
110 Pine Street	6756	\$0.00	6/23/2022	\$50.00	\$50.00	Jarreau Construction - Chase
1425 Cottonwood Dr	6780	\$0.00	7/25/2022	\$40.00	\$40.00	Brandon Elkins
120 THORNTON LN	6792	\$410000.00	9/14/2022	\$20.00	\$20.00	Josh & Amanda Ott
400 N River Road	6793	\$0.00	1/19/2022	\$59.00	\$59.00	SLC Development Of Ascension,
		<b>\$420000.00</b>		<b>\$145.00</b>	<b>\$145.00</b>	



# Building Permit Report

City of Denham Springs  
Office of Planning & Dev.

1169 Southern Living Lane	6817		\$0.00	2/24/2022	\$100.00	\$130.00	SLC Development Of Ascension, LLC
2040 Falconcrest Dr	6830		\$1800000.00	7/28/2022	\$40.00	\$40.00	Logan Moser
1105 Camellia Way	6846		\$2800000.00	4/11/2022	\$198.00	\$198.00	Tracy & Ricki Shirley
1130 Cockerham Road	6878		\$3850000.00	9/28/2022	\$264.00	\$264.00	Knighten Investments
1132 Camellia Way	6881		\$0.00	12/1/2022	\$116.00	\$116.00	ACW Investments, LLC - Kirk
1246 S. River Rd	6924		\$3200000.00	10/11/2022	\$100.00	\$100.00	JMC Builders - John McDowell
1126 Ivy Court	6932		\$0.00	5/31/2022	\$152.00	\$152.00	Kokesh Construction Inc
1001 Rodeo Dr	6953		\$0.00	6/2/2022	\$158.00	\$158.00	Kokesh Construction Inc
1113 Irish Ivy	7022		\$0.00	9/15/2022	\$232.00	\$232.00	Douglas Searest
			<b>\$8875000.00</b>		<b>\$14223.81</b>	<b>\$13,725.81</b>	
<b>Residential: Pool</b>			\$0.00	9/12/2022	\$50.00	\$50.00	Joseph Willey
1481 Cottonwood Dr	6877		\$0.00	5/31/2022	\$40.00	\$40.00	N/A
704 Dawes Dr	6888		\$0.00	5/5/2022	\$25.00	\$25.00	Mike Rogers
1040 Benton St	6677		\$0.00	1/18/2022	\$12.00	\$20.00	Lee Rouse
1107 Camellia Way	6858		\$0.00	4/27/2022	\$0.00	\$20.00	Joseph Willey
			<b>\$0.00</b>		<b>\$2755.61</b>	<b>\$2,789.61</b>	
<b>Total</b>			<b>\$23615000.00</b>		<b>\$63348.39</b>	<b>\$63,168.39</b>	

## Inspector Stats

1/1/2022 through 12/31/2022

Inspector	# of Inspections	# Passed	# Failed	% Passed	% Failed
Stephen Davidson	1611	1051	560	65.2	34.8
Rick Foster	48	28	20	58.3	41.7
Not Assigned	2	1	1	50.0	50.0
Shawn Hima	6	2	4	33.3	66.7

(1,667 INSPECTIONS TOTAL)

Permit Number	Review Date
<b>Plan Review Fees   Number of Reviews: 9</b>	
<a href="#">6310</a>	6/15/2022 1:27:05 PM
<a href="#">6310</a>	6/15/2022 1:27:05 PM
<a href="#">6538</a>	9/7/2022 4:59:33 PM
<a href="#">6538</a>	9/7/2022 4:59:33 PM
<a href="#">6538</a>	9/7/2022 4:59:33 PM
<a href="#">6788</a>	5/23/2022 5:05:38 PM
<a href="#">7061</a>	12/28/2022 3:49:11 PM
<a href="#">7061</a>	12/28/2022 3:49:11 PM
<a href="#">7061</a>	12/28/2022 3:49:11 PM
<b>Total Permits</b>	<b>9</b>



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report



**GENERAL INFORMATION**

Project Name: Take 5 Carwash	
Location: 111 Bas Pro Blvd	
Date of Inspection: 3/23/2022	Time In/Out: 2:15
Inspector: Stephen Davidson	Inspector phone: 3:15
Present phase of construction (clearing, framing, final grade, etc.): Framing	
Type of Inspection: <input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input checked="" type="checkbox"/> Post-storm event	

**GENERAL PERMIT**

<input type="checkbox"/> LAR 100000	<input type="checkbox"/> LAR 200000	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> N/A
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**PUBLIC NOTICE (at entrance)**

Notice posted	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
LPDES Permit Number	<input type="checkbox"/> Yes <input type="checkbox"/> No	?
Contact info (name, phone, etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	?
Project description	<input type="checkbox"/> Yes <input type="checkbox"/> No	?
Location of SWPPP identified	<input type="checkbox"/> Yes <input type="checkbox"/> No	?

Additional Comments: Please provide above information as required.

**SWPPP**

**SWPPP MANUAL:**

Approved manual on-site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	unknown
Inspection reports current	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**SWPPP SITE PLANS:**

Approved plans on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Modifications to plans	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Approved BMPs installed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Additional Comments:

**ADDITIONAL COMMENTS:**

Take 5 Carwash  
111 Bass Pro Blvd



OVERALL SITE ISSUES / BMPs			
BMP / activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. <u>Construction exit</u> : Is construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add more crushed concrete as discussed and move cement mixer away from entrance.
2. <u>Silt fence</u> : Are perimeter controls and sediment barriers installed correctly (keyed into substrate)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Silt fencing need to be re-stood as sediment has push fencing over in some locations.
3. <u>Outfall protection</u> : Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See catch basins below
4. <u>Outfall protection</u> : Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Catch basins must be protected from sediment better.
5. <u>Inlet protection</u> : Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Catch basins must be protected from sediment better.
6. <u>Washouts</u> : Are washout facilities (e.g. concrete, stucco, paint, etc.) available, clearly marked and maintained?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	As discussed please move cement mixer away from road traffic to limit mud on streets.
7. <u>Discharges</u> : Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. <u>Covered contaminants</u> : Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. <u>Trash/Litter</u> : Is trash/litter from work areas collected and placed in covered dumpsters or other approved containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. <u>Fueling station(s)</u> : Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. <u>Stabilized soil</u> : Are all inactive slopes and areas of disturbed soil been stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Several areas of concern: 1) rear of building; 2) excess dirt piles to be removed later per GC.
12. (Other)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	SWPPP notes from approve print

# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report



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GIVE A DETAILED DESCRIPTION OF ALL CONTROLS, BEST MANAGEMENT PRACTICES (BWPS) AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES SECTION. PROVIDE TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED. NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

1. PRIOR TO CLEARING, A SILT FENCE (TRENCHED 4 INCHES DEEP AND BACKED FILLED ON THE UPHILL SIDE), SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE.
2. DURING, THE CLEARING, GRUBBING, AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED RYE GRASS.
3. AFTER THE INITIAL SITE GRADING WORK, ALL PROPOSED INLETS/OUTFALLS, ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF USING PROPERLY INSTALLED INLET PROTECTION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENT STABILIZATION METHODS (IF OTHER METHODS ARE UTILIZED, THIS SWPPP WILL BE MODIFIED.
4. ALL INSTALLATION SHALL BE COMMENCED AS DEPICTED ON THE ATTACHED SITE PLAN AND DETAIL SHEET.

DESCRIBE ALL TEMPORARY AND PERMANENT STABILIZATION PRACTICES. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, MULCHING, PERMANENT SEEDING, GEOTEXTILES, SOOBTABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, VEGETATIVE PRESERVATIONS, ETC.

1. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT THE MANUFACTURE'S RECOMMENDATION TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS.
2. MULCHING PRACTICES AND SOD SHALL BE APPLIED TO REQUIRED AREAS.

DESCRIBE ALL STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS AND STRUCTURAL PRACTICES TO STORE FLOWS, RETAIN SEDIMENT ON-SITE OR IN ANY OTHER WAY LIMIT STORMWATER RUNOFF. THESE CONTROLS INCLUDE SILT FENCES, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, COAGULATING AGENTS AND TEMPORARY OR PERMANENT SEDIMENT BASINS.

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DESCRIBE ALL STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS AND STRUCTURAL PRACTICES TO STORE FLOWS, RETAIN SEDIMENT ON-SITE OR IN ANY OTHER WAY LIMIT STORMWATER RUNOFF. THESE CONTROLS INCLUDE SILT FENCES, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, COAGULATING AGENTS AND TEMPORARY OR PERMANENT SEDIMENT BASINS.

1. A SILT FENCE REINFORCED SHALL BE PLACED AROUND THE ENTIRE PERIMETER IN ADDITION TO A VEGETATION BARRIER THAT SHALL BE PLACED AROUND THE VEGETATIVE BUFFERS.
2. INLET(S)/OUTFALLS SHALL BE PROTECTED WITH PROPERLY INSTALLED INLET/OUTLET PROTECTION.

DESCRIBE ALL SEDIMENT BASINS TO BE IMPLEMENTED FOR AREAS THAT WILL DISTURB 10 OR MORE ACRES AT ONE TIME. THE SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) SHOULD BE ABLE TO PROVIDE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE DRAINED. TEMPORARY SEDIMENT BASINS (OR AN EQUIVALENT ALTERNATIVE) ARE RECOMMENDED FOR DRAINAGE AREAS UNDER 10 ACRES.

DESCRIBE ALL PERMANENT STORMWATER MANAGEMENT CONTROLS SUCH AS, BUT NOT LIMITED TO, DETENTION OR RETENTION SYSTEMS OR VEGETATED SWALES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS.

SEE CONSTRUCTION PLANS FOR LOCATION OF PERMANENT CONTROL STRUCTURES.



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report

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Take 5 Carwash  
111 Bass Pro Blvd

City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report

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Take 5 Carwash  
111 Bass Pro Blvd



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report



Take 5 Carwash  
111 Bass Pro Blvd



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report

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Take 5 Carwash  
111 Bass Pro Blvd

City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report

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Take 5 Carwash  
111 Bass Pro Blvd



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report

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Take 5 Carwash  
111 Bass Pro Blvd



# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report



#### GENERAL INFORMATION

Project Name: Carter's Supermarket	
Location: 1160 Hatchell Lane Denham Springs, La	
Date of Inspection: 3/8/2022	Time In/Out: 10:00 / 10:30 am
Inspector: Stephen Davidson	Inspector phone: 225-436-0453
Present phase of construction (clearing, framing, final grade, etc.): Framing stage	
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event	

#### GENERAL PERMIT

<input checked="" type="checkbox"/> LAR 100000	<input type="checkbox"/> LAR 200000	<input type="checkbox"/> Unknown	<input type="checkbox"/> N/A
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#### PUBLIC NOTICE (at entrance)

Notice posted	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
LPDES Permit Number	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	227871
Contact info (name, phone, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Project description	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Location of SWPPP identified	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Additional Comments:		

#### SWPPP

##### SWPPP MANUAL:

Approved manual on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspection reports current	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

##### SWPPP SITE PLANS:

Approved plans on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Modifications to plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Approved BMPs installed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Noted below.
Additional Comments:		

##### ADDITIONAL COMMENTS:

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OVERALL SITE ISSUES / BMPs			
BMP / activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. <u>Construction exit</u> : Is construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Question issues on Cockerham when construction road is muddy
2. <u>Silt fence</u> : Are perimeter controls and sediment barriers installed correctly (keyed into substrate)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Must re-install silt fencing rear of property.
3. <u>Outfall protection</u> : Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Must add hay bails or other BMP to prevent sediment run off North East corner of property during construction.
4. <u>Outfall protection</u> : Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. <u>Inlet protection</u> : Are storm drain inlets properly protected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. <u>Washouts</u> : Are washout facilities (e.g. concrete, stucco, paint, etc.) available, clearly marked and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
7. <u>Discharges</u> : Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. <u>Covered contaminants</u> : Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. <u>Trash/Litter</u> : Is trash/litter from work areas collected and placed in covered dumpsters or other approved containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. <u>Fueling station(s)</u> : Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. <u>Stabilized soil</u> : Are all inactive slopes and areas of disturbed soil been stabilized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	



City of Denham Springs

MS4 / Stormwater

Construction Site SWPPP Inspection Report





City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report





**Inspection Report**

Inspection Date:  
3/23/2022 4:35:00  
PM

**FAILED**

should contact City of Denham Springs at  
(225) 667-8326 for further information.

Project Number	Work Order ID	Inspection ID
6538	16557590	12267905

Jurisdiction	Inspection type	Inspector
Denham Springs	Building Other	Stephen Davidson

Customer	Address	Phone
	111 Bass Pro Blvd Denham Springs, LA 70726	

Scheduled	Completed	Uploaded
3/23/2022 12:00:00 AM	3/23/2022 4:35:00 PM	3/23/2022 4:36:11 PM

Details
MS4 Stormwater report: issues noted on report and follow up inspection to be done in 14 days.

**You can download this report or request additional inspections at [www.MyGovernmentOnline.org](http://www.MyGovernmentOnline.org).  
For software assistance please call 866.957.3764.  
For questions about this inspection please contact your jurisdiction**







### Inspection Report

Inspection Date:  
3/7/2022 9:46:00  
AM

**PASSED**

should contact City of Denham Springs at  
(225) 667-8326 for further information.

Project Number	Work Order ID	Inspection ID
6742	16466577	12199176

Jurisdiction	Inspection type	Inspector
Denham Springs	Foundation	Stephen Davidson

Customer	Address	Phone
	1320 BENTON LANE Denham Springs , LA 70726	

Scheduled	Completed	Uploaded
3/7/2022 12:00:00 AM	3/7/2022 9:46:00 AM	3/7/2022 9:48:33 AM

Details
Provide cement wash out box as discussed and submit "as built" stamp foundation drawing before final.

**You can download this report or request additional inspections at [www.MyGovernmentOnline.org](http://www.MyGovernmentOnline.org).**  
**For software assistance please call 866.957.3764.**  
**For questions about this inspection please contact your jurisdiction**





### Inspection Report

Inspection Date:  
6/21/2022 2:06:00  
PM

**PASSED**

should contact City of Denham Springs at  
(225) 667-8326 for further information.

Project Number	Work Order ID	Inspection ID
6857	18112612	14005468

Jurisdiction	Inspection type	Inspector
Denham Springs	Plumbing Rough-in	Stephen Davidson

Customer	Address	Phone
	2310 Carolyn Ave Denham Springs, LA 70726	

Scheduled	Completed	Uploaded
6/21/2022 12:00:00 AM	6/21/2022 2:06:00 PM	6/21/2022 2:07:31 PM

Details
Provide cement wash out box before call for Foundation inspection.

**You can download this report or request additional inspections at [www.MyGovernmentOnline.org](http://www.MyGovernmentOnline.org).**  
**For software assistance please call 866.957.3764.**  
**For questions about this inspection please contact your jurisdiction**







**Inspection Report**

Inspection Date:  
7/19/2022 1:21:00  
PM

**FAILED** Loretta Boyle should contact City of Denham Springs at  
(225) 667-8326 for further information.

Project Number	Work Order ID	Inspection ID
6904	18250146	14123179

Jurisdiction	Inspection type	Inspector
Denham Springs	Foundation Footing	Stephen Davidson

Customer	Address	Phone
Loretta Boyle	1280 Benton Lane Denham Springs, LA 70726	5045540493

Scheduled	Completed	Uploaded
7/19/2022 12:00:00 AM	7/19/2022 1:21:00 PM	7/19/2022 1:27:36 PM

Details
1. Contact city gas department for safe relocation of gas meter out of cement work. 2. License Electrician to safely work electrical service and contact Entergy for extending feeder wires. 3. Post address on home visible from road. 4. Provide cement washout box on site. 5. Pump water out of footings. 6. Mulk out mud from cave ins. 7. Place rebar in footings with bricks to designed height.

**You can download this report or request additional inspections at [www.MyGovernmentOnline.org](http://www.MyGovernmentOnline.org).  
For software assistance please call 866.957.3764.  
For questions about this inspection please contact your jurisdiction**







**Inspection Report**

**Inspection Date:**  
12/13/2022 7:36:00  
AM

**FAILED**

should contact City of Denham Springs at  
(225) 667-8326 for further information.

Project Number	Work Order ID	Inspection ID
7061	20944917	16303181

Jurisdiction	Inspection type	Inspector
Denham Springs	Building Other	Stephen Davidson

Customer	Address	Phone
	2302 S. Range Ave Denham Springs, LA 70726	

Scheduled	Completed	Uploaded
12/13/2022 12:00:00 AM	12/13/2022 7:36:00 AM	12/13/2022 8:03:58 AM

**Details**

SWPPP site inspection: Please see office for report details; improvements need to be made before next heavy rain event. Items to be noted from report: 1. Post LPDES to be posted on site. 2. Protect open drainage piping inside silk fencing better. 3. Question temp pole permitting. 4. Silk fencing along South Range knock over.

**You can download this report or request additional inspections at [www.MyGovernmentOnline.org](http://www.MyGovernmentOnline.org).  
For software assistance please call 866.957.3764.  
For questions about this inspection please contact your jurisdiction**



# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report



GENERAL INFORMATION	
Project Name: DS HS Football field	
Location:	
Date of Inspection: 10/26/2022	Time In/Out: 1:00 / 1:30
Inspector: Stephen Davidson	Inspector phone: 225-436-0453
Present phase of construction (clearing, framing, final grade, etc.): Framing	
Type of Inspection: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event	

GENERAL PERMIT	
<input checked="" type="checkbox"/> LAR 100000 <input type="checkbox"/> LAR 200000 <input type="checkbox"/> Unknown <input type="checkbox"/> N/A	

PUBLIC NOTICE (at entrance)		
Notice posted	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Replace missing road SWPPP poster
LPDES Permit Number	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Contact info (name, phone, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Project description	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Location of SWPPP identified	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Additional Comments: SWPPP binder located in GC (Todd) truck		

SWPPP		
<b>SWPPP MANUAL:</b>		
Approved manual on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspection reports current	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>SWPPP SITE PLANS:</b>		
Approved plans on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Modifications to plans	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Approved BMPs installed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Issues with unprotected drain covers.
Additional Comments:		

<b>ADDITIONAL COMMENTS:</b>
-----------------------------





OVERALL SITE ISSUES / BMPs			
BMP / activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. <u>Construction exit</u> : Is construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2. <u>Silt fence</u> : Are perimeter controls and sediment barriers installed correctly (keyed into substrate)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. <u>Outfall protection</u> : Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. <u>Outfall protection</u> : Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Several drain covers need protecting.
5. <u>Inlet protection</u> : Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Several drain covers need protecting.
6. <u>Washouts</u> : Are washout facilities (e.g. concrete, stucco, paint, etc.) available, clearly marked and maintained?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Concrete mixing station must be cleaned up and storm drain protected from sediment.
7. <u>Discharges</u> : Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. <u>Covered contaminants</u> : Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. <u>Trash/Litter</u> : Is trash/litter from work areas collected and placed in covered dumpsters or other approved containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. <u>Fueling station(s)</u> : Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. <u>Stabilized soil</u> : Are all inactive slopes and areas of disturbed soil been stabilized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	



# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report





# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report





City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report



**STUART & CO**  
GENERAL CONTRACTORS

**Storm Water Pollution Prevention Plan (SWPPP)**

Permit Number: LAR \_\_\_\_\_ 180000

**Prepared for:**  
Denham Springs High School Food & Track Improvements

**Development Name & Location:**  
\_\_\_\_\_

Stuart & Company General Contractors, LLC

**Prepared by:**  
Blake Pasopinto

**Date:**  
01/09/2022  
0000000001

Phone: 225.293.8650 • Fax: 225.293.8651

# City of Denham Springs

## MS<sup>4</sup> / Stormwater

### Construction Site SWPPP Inspection Report



#### GENERAL INFORMATION

Project Name: <a href="#">Baseball Complex</a>	
Location: <a href="#">200 Yellow Jacket Blvd</a>	
Date of Inspection: <a href="#">10/4/2022</a>	Time In/Out:
Inspector: <a href="#">Stephen Davidson</a>	Inspector phone: <a href="#">225-436-0453</a>
Present phase of construction (clearing, framing, final grade, etc.): <a href="#">Framing</a>	
Type of Inspection: <input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event	

#### GENERAL PERMIT

LAR 100000     LAR 200000     Unknown     N/A

#### PUBLIC NOTICE (at entrance)

Notice posted	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<a href="#">Notice must be posted at entrance</a>
LPDES Permit Number	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Contact info (name, phone, etc.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Project description	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Location of SWPPP identified	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Additional Comments:		

#### SWPPP

##### SWPPP MANUAL:

Approved manual on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspection reports current	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

##### SWPPP SITE PLANS:

Approved plans on-site	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Modifications to plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Approved BMPs installed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<a href="#">See notes</a>

Additional Comments:

#### ADDITIONAL COMMENTS:

--

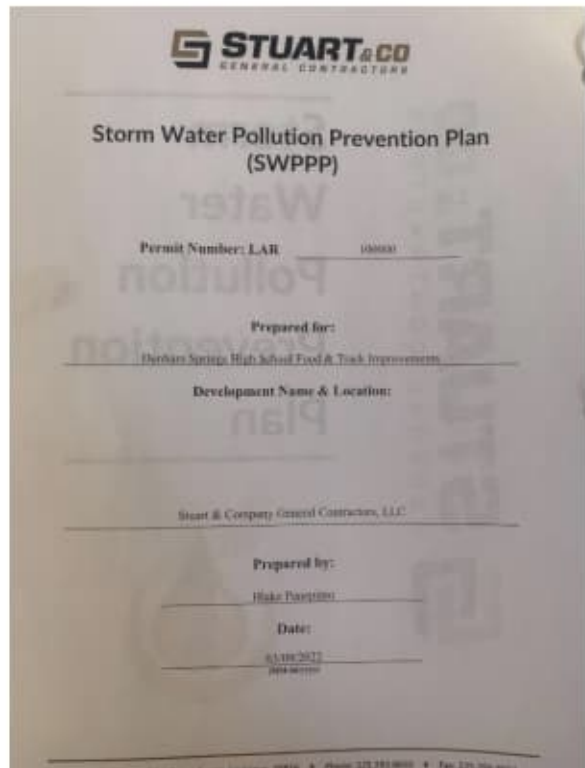
# SWPPP / Stormwater Construction Site Inspection Report



OVERALL SITE ISSUES / BMPs			
BMP / activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. <u>Construction exit</u> : Is construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2. <u>Silt fence</u> : Are perimeter controls and sediment barriers installed correctly (keyed into substrate)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. <u>Outfall protection</u> : Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. <u>Outfall protection</u> : Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. <u>Inlet protection</u> : Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add proper drain cover protection
6. <u>Washouts</u> : Are washout facilities (e.g. concrete, stucco, paint, etc.) available, clearly marked and maintained?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Clean up cement washout stations.
7. <u>Discharges</u> : Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. <u>Covered contaminants</u> : Are materials that are potential stormwater contaminants stored inside or under cover?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. <u>Trash/Litter</u> : Is trash/litter from work areas collected and placed in covered dumpsters or other approved containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. <u>Fueling station(s)</u> : Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. <u>Stabilized soil</u> : Are all inactive slopes and areas of disturbed soil been stabilized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Complete all sod work
12. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	



# SWPPP / Stormwater Construction Site Inspection Report



City of Denham Springs

MS<sup>4</sup> / Stormwater

Construction Site SWPPP Inspection Report



**GENERAL INFORMATION**

Project Name: <b>Small's Sliders (#7061)</b>	
Location: <b>2302 S Range</b>	
Date of Inspection: <b>12/12/2022</b>	Time In/Out: <b>2:35</b>
Inspector: <b>Stephen Davidson</b>	Inspector phone: <b>225-436-0453</b>
Present phase of construction ( <b>clearing</b> , framing, final grade, etc.):	
Type of Inspection: <input type="checkbox"/> Regular <input checked="" type="checkbox"/> <b>Pre-storm event</b> <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event	

**GENERAL PERMIT**

<input type="checkbox"/> LAR 100000	<input type="checkbox"/> LAR 200000	<input type="checkbox"/> Unknown	<input type="checkbox"/> N/A
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**PUBLIC NOTICE (at entrance)**

Notice posted	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	
LPDES Permit Number	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	
Contact info (name, phone, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	
Project description	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	
Location of SWPPP identified	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	
Additional Comments: <b>Notice must be posted at site entrance.</b>		

**SWPPP**

<b>SWPPP MANUAL:</b>		
Approved manual on-site	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Undetermined</b>
Inspection reports current	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Undetermined</b>
<b>SWPPP SITE PLANS:</b>		
Approved plans on-site	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Undetermined</b>
Modifications to plans	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Undetermined</b>
Approved BMPs installed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> <b>No</b>	<b>Schedule site meeting asap</b>
Additional Comments:		

<b>ADDITIONAL COMMENTS:</b> <b>No inspections made on Electrical T-pole nor job trailer service.</b>
------------------------------------------------------------------------------------------------------



# SWPPP / Stormwater Construction Site Inspection Report



OVERALL SITE ISSUES / BMPs			
BMP / activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. <u>Construction exit</u> : Is construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Keep mud off roads including parking area.
2. <u>Silt fence</u> : Are perimeter controls and sediment barriers installed correctly (keyed into substrate)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Attention needed western side near contractor's sign.
3. <u>Outfall protection</u> : Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Caution northern side of site to protect city street catch basin if heavy rains occur.
4. <u>Outfall protection</u> : Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Attention needed at open drainage pipe inside silk fencing.
5. <u>Inlet protection</u> : Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Undetermined
6. <u>Washouts</u> : Are washout facilities (e.g. concrete, stucco, paint, etc.) available, clearly marked and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Undetermined
7. <u>Discharges</u> : Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Undetermined
8. <u>Covered contaminants</u> : Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Undetermined
9. <u>Trash/Litter</u> : Is trash/litter from work areas collected and placed in covered dumpsters or other approved containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. <u>Fueling station(s)</u> : Are vehicle and equipment fueling, cleaning and maintenance areas free of spills, leaks or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
11. <u>Stabilized soil</u> : Are all inactive slopes and areas of disturbed soil been stabilized?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Attention needed south-west corner of site.
12. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13. (Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14.			



SWPPP / Stormwater  
Construction Site Inspection Report



SWPPP / Stormwater  
Construction Site Inspection Report





SWPPP / Stormwater  
Construction Site Inspection Report





**ATTACHMENT I**

**CITY OF DENHAM SPRINGS**

**SPRING PARK BUYOUT PROGRAM**

## **CITY OF DENHAM SPRINGS SPRING PARK BUYOUT PROGRAM**

The Office of Community Development has approved and begun a large scale project whereby empty lots, lots with abandoned homes, and other similar situations will be acquired utilizing grant awards through the Louisiana Watershed Initiative. This project has the potential to purchase over 100 lots in the area just south of the City's Spring Park and return them back to a natural floodplain state.

To date, 17 properties have been acquired, reference attached maps for additional details. Demolition of structures should begin 2<sup>nd</sup> QTR of 2023. Redevelopment of these lots will be prohibited for everything other than bike/pedestrian trails, park/play areas, etc.

# SPRING PARK BUYOUT PROGRAM

MAP  
UPDATED:  
3/8/2023

OWNED BY:  
DS, LP, OR  
LA LAND TRUST

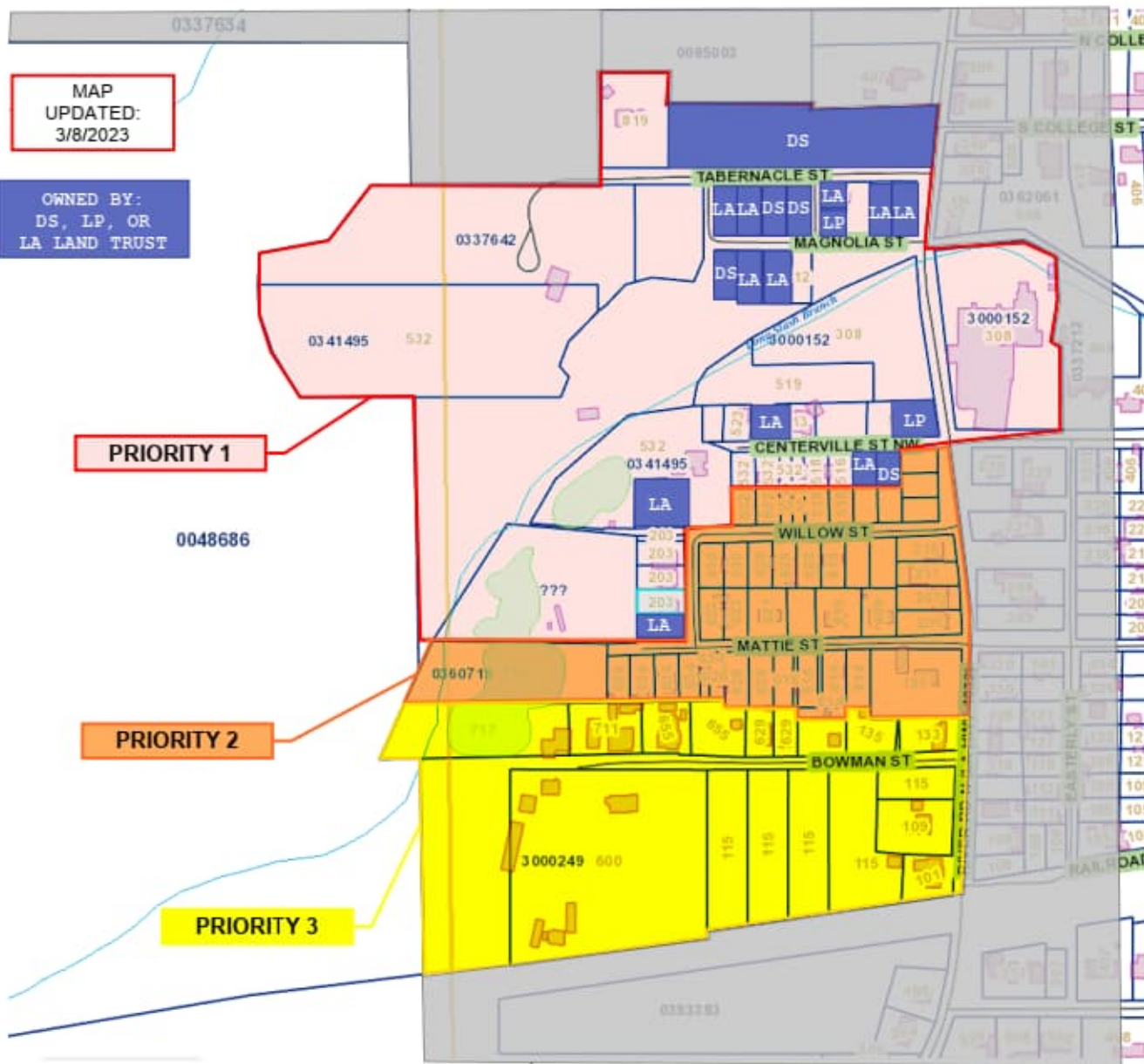
PRIORITY 1

0048686

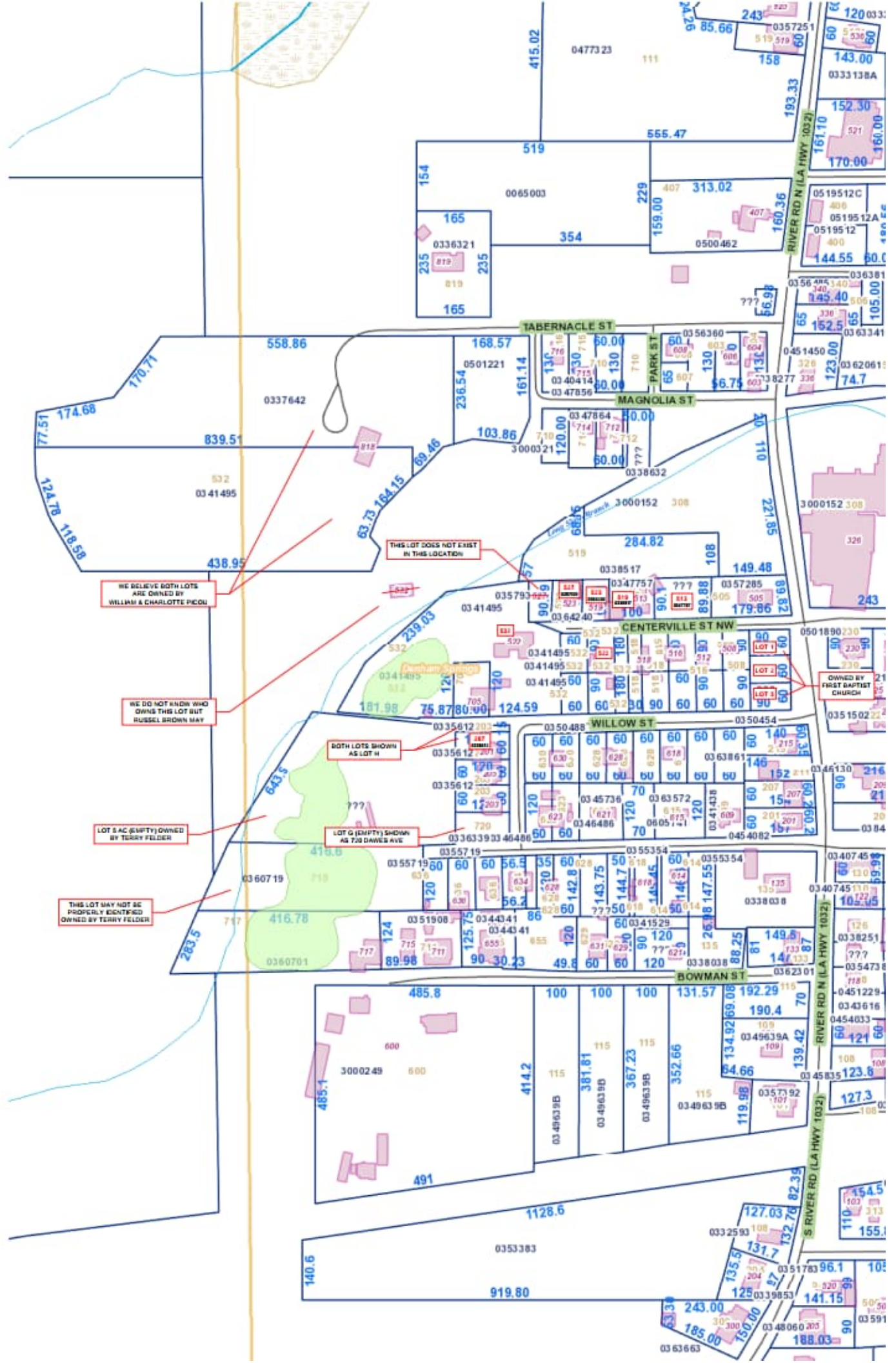
PRIORITY 2

PRIORITY 3

NOT PART OF THE  
PROGRAM







WE BELIEVE BOTH LOTS ARE OWNED BY WILLIAM & CHARLOTTE PICOU

WE DO NOT KNOW WHO OWNS THIS LOT BUT RUSSEL BROWN MAY

LOT 5 AC (EMPTY) OWNED BY TERRY FELDER

THIS LOT MAY NOT BE PROPERLY IDENTIFIED OWNED BY TERRY FELDER

THIS LOT DOES NOT EXIST IN THIS LOCATION

BOTH LOTS SHOWN AS LOT H

LOT G (EMPTY) SHOWN AS 700 DAWES AVE

OWNED BY FIRST BAPTIST CHURCH

# **ATTACHMENT J**

## **CITY OF DENHAM SPRINGS MS4 RECEIVING WATER SUMMARY**

The City of Denham Springs MS4 is comprised of approximately 4,767 acres and discharges into two (2) subsegments. Approximately 54% of the MS4 outfalls into subsegment 040302 - Amite River from La. Hwy 37 to the LMRAP Ecoregion boundary. The remaining 46% of the MS4 drains to subsegment 040304 - Grays Creek from headwaters to the Amite River.

Per Attachment A of the Final 2018 Integrated Report of Water Quality in Louisiana, each of the above referenced subsegments has been identified as having an approved TMDL (Integrated Report Cat. 4a). Listed below is a summary of the impairment from each subsegment which a TMDL has been established.

For a complete copy of the 2018 Integrated Report visit:

[https://www.deq.louisiana.gov/assets/docs/Water/Integrated\\_Report/2018\\_Integrated\\_Report/18\\_IR1\\_A\\_Master\\_Text\\_FINAL-CORRECTIONS\\_For\\_Website\\_04-17-19.pdf](https://www.deq.louisiana.gov/assets/docs/Water/Integrated_Report/2018_Integrated_Report/18_IR1_A_Master_Text_FINAL-CORRECTIONS_For_Website_04-17-19.pdf)

# ATTACHMENT K

## CITY OF DENHAM SPRINGS

### STORM WATER MONITORING RESULTS

In accordance with the City of Denham Springs Stormwater Monitoring Program, sampling of the city's MS4 was completed in July and October of 2022. Samples were collected at eleven (11) specific locations, as detailed on the Storm Water Monitoring Map (Attachment C).

At each location seven (7) separate stormwater samples were collected. These samples were delivered to Pace Analytical for testing. The results of the sample analyses are attached and a summary of the results is provided below.

ANALYTICAL RESULTS 7/30/2022												
PARAMETER	BASILINE LIMIT	1	2	3	4	5	6	7	8	9	10	11
pH	<6.0 or >9.0	7.3	7	7.1	6.8	8.1	7.4	7.6	7	7.1	7.4	7.4
Conductivity	300 umho/cm (Residential) 2000 umho/cm (Industrial)	160	230	120	270	110	360	220	100	180	130	110
BOD	45	5	19	ND	ND	3	ND	ND	ND	ND	ND	ND
TOC	<50 mg/L	8.8	27	15.2	8.4	9.1	8	7.5	9.5	12	11.8	16.8
Anions	<10 mg/L	2.99	9.94	4.79	26.8	5.17	43.2	4.17	4.85	14.9	8.66	3.02
Surfactants/Detergents	>0.25 ppm (Residential) >5.0 ppm (Industrial)	ND	1.04	ND	ND	ND	ND	ND	ND	0.12	ND	ND
Total Suspended Solids (TSS)	45	24	70	22	11	5	7	8	16	17	17	14
Fecal Coliform	400	>2000	>2000	90	30	150	350	390	140	30	>2000	1110

ANALYTICAL RESULTS 10/12/2022												
PARAMETER	BASILINE LIMIT	1	2	3	4	5	6	7	8	9	10	11
pH	<6.0 or >9.0	N/A	6.9	6.9	6.7	9.6	7.3	8.14	7.4	7.3	7.5	7.6
Conductivity	300 umho/cm (Residential) 2000 umho/cm (Industrial)	N/A	360	190	380	240	1400	280	230	410	420	29
BOD	45	N/A	41	45	16	69	25	20	27	24	30	34
TOC	<50 mg/L	N/A	19	10.5	3.9	10.6	8	ND	11.9	4.3	3.3	ND
Anions	<10 mg/L	9.38	6.74	52.6	17.3	128	150	8.52	13.6	24.4	52.4	14.7
Surfactants/Detergents	>0.25 ppm (Residential) >5.0 ppm (Industrial)	N/A	0.37	ND	0.32	0.2	0.2	ND	ND	ND	ND	ND
Total Suspended Solids (TSS)	45	N/A	272	14	ND	79	15	20	13	9	6	18
Fecal Coliform	400	N/A	ND	ND	110	ND	ND	ND	ND	ND	ND	ND



Review of the water sample analysis identified several locations with potential concerns. The increased levels identified for the sampling events does not appear to be location specific, though with the program is just beginning and historical results for each location is limited.

The results for the 2022-2023 sampling events have been forwarded to Mr. Nathan Levy, III with Lion Environmental, LLC. Mr. Levy is the water quality consultant for the City of Denham Springs Storm Water Monitoring Program. Additional testing or remediation actions will be taken as suggested by Mr. Levy once analysis of the results is complete. Additionally, results from future testing events will be compiled and compared to results from previous analyses to determine if additional remediation actions are warranted.



LELAP Certificate Number: 01955  
A2LA Accredited (DoD ELAP-QSM 5.4) Certificate Number: 6429.01

# ANALYTICAL RESULTS

## PERFORMED BY

**Pace Analytical Gulf Coast**  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

**Report Date 07/30/2022**

**Report # 222072277**



**Project WET WEATHER STORMWATER**

**Samples Collected 7/22/22**

<b><i>Deliver To</i></b>	<b><i>Additional Recipients</i></b>
Shawn Hima Alvin Fairburn & Associates 1289 Del Este Ave Denham Springs, LA 70726 225-276-4621	H. Nathan Levy III, Lion Environmental - LLC Marie Levy, PACE Analytical

## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified reporting limit
<b>NO</b>	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>DL</b>	Detection Limit
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation
<b>RE</b>	Re-analysis
<b>CF</b>	HPLC or GC Confirmation
<b>00:01</b>	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

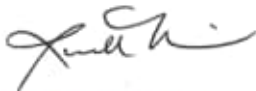
<b>J or I</b>	Indicates the result is between the MDL and LOQ
<b>J</b>	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B or V</b>	Indicates the analyte was detected in the associated Method Blank
<b>Q</b>	Indicates a non-compliant QC Result (See Q Flag Application Report)
<b>*</b>	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
<b>E</b>	Organics - The result is estimated because it exceeded the instrument calibration range
<b>E</b>	Metals - % difference for the serial dilution is > 10%
<b>L</b>	Reporting Limits adjusted to meet risk-based limit.
<b>P</b>	RPD between primary and confirmation result is greater than 40
<b>DL</b>	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Authorized Signature  
Pace Gulf Coast Report 222072277



## Certifications

Certification	Certification Number
A2LA Accredited (DoD ELAP-QSM 5.4)	6429.01
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234



## Case Narrative

**Client:** Alvin Fairburn & Associates      **Report:** 222072277

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### GENERAL CHEMISTRY

In the SM 5210 B-2016 analysis for analytical batch 746433, the LCS and/or LCSD recoveries are outside the control limits



## Sample Summary

<b>Lab ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Collect Date</b>	<b>Receive Date</b>
22207227701	#1	Water	7/22/22 14:48	7/22/22 16:14
22207227702	#2	Water	7/22/22 15:15	7/22/22 16:14





## Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

### EPA 300.0, Rev 2.1

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207227701	#1	Chloride	mg/L	2.99	1	NA
22207227701	#1	Fluoride	mg/L	0.233	1	NA
22207227701	#1	Nitrate	mg/L-N	0.246	1	NA
22207227701	#1	Sulfate	mg/L	29.7	5	NA
22207227702	#2	Chloride	mg/L	8.29	1	NA
22207227702	#2	Sulfate	mg/L	9.94	1	NA

### SM 2540 D-2011

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207227701	#1	Total Suspended Solids	mg/L	24	1	NA
22207227702	#2	Total Suspended Solids	mg/L	70	1	NA

### SM 5210 B-2016

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207227701	#1	BOD	mg/L	5	1	NA
22207227702	#2	BOD	mg/L	19	1	NA

### SM 5310 B-2010

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207227701	#1	Total Inorganic Carbon	mg/L	5.2	1	NA
22207227701	#1	Total Organic Carbon	mg/L	8.8	1	NA
22207227702	#2	Total Inorganic Carbon	mg/L	18.3	1	NA
22207227702	#2	Total Organic Carbon	mg/L	27.0	1	NA

### SM 5540 C-2011

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207227702	#2	Surfactants	mg/L-LAS	1.04	1	NA

## Sample Results

<b>#1</b>	Collect Date	07/22/2022 14:48	Lab ID	22207227701
	Receive Date	07/22/2022 16:14	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/23/22 10:48	746078	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
16887-00-6	Chloride		2.99	0.200			mg/L
16984-48-8	Fluoride		0.233	0.200			mg/L
14797-55-8	Nitrate		0.246	0.200			mg/L-N
14797-65-0	Nitrite		ND	0.200			mg/L-N

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	5	07/23/22 10:28	746078	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
14808-79-8	Sulfate		29.7	1.00			mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/25/22 09:55	746125	LHM	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-009	Total Suspended Solids		24	5			mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/23/22 12:40	746081	BOD PREP	1	07/23/22 12:40	746433	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-002	BOD		5	3			mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/25/22 20:42	746128	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-017	Total Inorganic Carbon		5.2	2.0			mg/L
C-012	Total Organic Carbon		8.8	2.0			mg/L

## Sample Results

<b>#1</b>	Collect Date	07/22/2022 14:48	Lab ID	22207227701
	Receive Date	07/22/2022 16:14	Matrix	Water

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/23/22 12:30	746084	SM 5540 C-2011	1	07/23/22 13:22	746085	EAN	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/22/22 16:50	746035	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	>2000	10	Col/100mL

<b>#2</b>	Collect Date	07/22/2022 15:15	Lab ID	22207227702
	Receive Date	07/22/2022 16:14	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/24/22 01:31	746078	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>8.29</b>	<b>0.200</b>	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>9.94</b>	<b>0.200</b>	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/25/22 09:55	746125	LHM	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	<b>70</b>	<b>5</b>	mg/L



## Sample Results

<b>#2</b>	Collect Date	07/22/2022 15:15	Lab ID	22207227702
	Receive Date	07/22/2022 16:14	Matrix	Water

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/23/22 12:40	746081	BOD PREP	1	07/23/22 12:40	746433	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	19	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/25/22 21:04	746128	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	Total Inorganic Carbon	18.3	2.0	mg/L
C-012	Total Organic Carbon	27.0	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/23/22 12:30	746084	SM 5540 C-2011	1	07/23/22 13:22	746085	EAN	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	1.04	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/22/22 16:50	746035	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	>2000	10	Col/100mL

## General Chemistry QC Summary

<b>Analytical Batch</b> 746433		Client ID MB746081	LCS746081				
<b>Prep Batch</b> 746081		Lab ID 2374971	2374973				
<b>Prep Method</b> BOD PREP		Sample Type MB	LCS				
		Prep Date 07/23/22 12:40	07/23/22 12:40				
		Analysis Date 07/23/22 12:40	07/23/22 12:40				
		Matrix Water	Water				
<b>SM 5210 B-2016</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
BOD	C-002	ND	3	198	315	159*	84.5 - 115.5

<b>Analytical Batch</b> 746085		Client ID MB746084	LCS746084		LCSD746084							
<b>Prep Batch</b> 746084		Lab ID 2375038	2375039		2375040							
<b>Prep Method</b> SM 5540 C-2011		Sample Type MB	LCS		LCSD							
		Prep Date 07/23/22 12:30	07/23/22 12:30		07/23/22 12:30							
		Analysis Date 07/23/22 13:21	07/23/22 13:20		07/23/22 13:21							
		Matrix Water	Water		Water							
<b>SM 5540 C-2011</b>		Units Result	mg/L-LAS LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Surfactants	000000-03-6	ND	0.100	1.00	1.01	101	80 - 120	1.00	1.03	103	2	25

<b>Analytical Batch</b> 746078		Client ID MB746078	LCS746078		LCSD746078							
		Lab ID 2374953	2374954		2374955							
		Sample Type MB	LCS		LCSD							
		Prep Date NA	NA		NA							
		Analysis Date 07/23/22 23:12	07/23/22 22:52		07/24/22 03:11							
		Matrix Water	Water		Water							
<b>EPA 300.0, Rev 2.1</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	ND	0.200	2.50	2.43	97	80 - 120	2.50	2.43	97	0	15
Fluoride	16984-48-8	ND	0.200	2.50	2.44	97	80 - 120	2.50	2.44	97	0	15
Nitrate	14797-55-8	ND	0.200	2.50	2.40	96	80 - 120	2.50	2.40	96	0	15
Nitrite	14797-65-0	ND	0.200	2.50	2.38	95	80 - 120	2.50	2.38	95	0	15
Sulfate	14808-79-8	ND	0.200	2.50	2.41	96	80 - 120	2.50	2.41	96	0	15

<b>Analytical Batch</b> 746125		Client ID MB746125	LCS746125	
		Lab ID 2375171	2375171	
		Sample Type MB	LCS	
		Prep Date NA	NA	
		Analysis Date 07/25/22 09:55	07/25/22 09:55	
		Matrix Water	Water	
<b>SM 2540 D-2011</b>		Units Result	mg/L LOQ	
Total Suspended Solids	C-009	ND	5	

<b>Analytical Batch</b> 746128		Client ID MB746128	LCS746128		LCSD746128							
		Lab ID 2375180	2375181		2375182							
		Sample Type MB	LCS		LCSD							
		Prep Date NA	NA		NA							
		Analysis Date 07/25/22 12:15	07/25/22 11:19		07/25/22 17:27							
		Matrix Water	Water		Water							
<b>SM 5310 B-2010</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	ND	2.0	50.0	49.6	99	80 - 120	50.0	49.9	100	1	20





# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Alvin Fairburn & Associates  
 Address: 1289 Del Este Ave  
 Report To: Shawn Hima  
 Copy To:

Billing Information:  
 Email To:  
 Site Collection Info/Address:

Customer Project Name/Number: WET WEATHER STORMWATER  
 Phone: 225-276-4621  
 Email:  
 Collected By (print):  
 Collected By (signature):  
 Sample Disposal:  
 Dispose as appropriate  
 Return  
 Archive:  
 Hold:

State: County/City: Time Zone Collected:  
 Compliance Monitoring?  
 Yes  No  
 DW PWS ID #:  
 DW Location Code:  
 Immediately Packed on Ice:  
 Yes  No  
 Field Filtered (if applicable):  
 Yes  No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
H1	WW	G	7/22	2:48			7	
H2	WW	G	"	3:15			7	
	WW						7	
	WW						7	
	WW						7	
	WW						7	
	WW						7	
	WW						7	
	WW						7	
	WW						7	

LAB USE ONLY - Affix Microscopic Label Here or List Data Microscopic Number on Label

Client ID: 5464 - Alvin Fairburn & Associates

ALL SI SDG: 222072277

Container Present: 8

PM: IML

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line: PGC 295428	
BOD	TSS	FECAL COLIFORM	SURFACTANTS	CL <sub>2</sub> , N, F, SO <sub>4</sub>	TOC						Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signatures Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA CI Strips: Sample pH Acceptable Y N NA pH Strips: Sulfide Present Y N NA Lead Acetate Strips: _____
											LAB USE ONLY: Lab Sample # / Comments: COND 1600 umhos/cm pH=7.3 7/22 2:58 PM 1 COND. 232 mg/L pH=7.0 7/22 3:18 2

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used:  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
 Lab Tracking #:  
 Samples received via:  
 FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature)  
 Date/Time: 7/22 3:25  
 Relinquished by/Company: (Signature)  
 Date/Time: 7/22  
 Relinquished by/Company: (Signature)

Received by/Company: (Signature)  
 Date/Time: 7/22 3:25  
 Received by/Company: (Signature)  
 Date/Time: 7/22/22  
 Received by/Company: (Signature)

MTJL LAB USE ONLY  
 Table #:  
 Actnum:  
 Template:  
 Prelogin:  
 PM:  
 PB:

LAB Sample Temperature Info:  
 Temp Blank Received: Y N NA  
 Therm ID#:  
 Cooler 1 Temp Upon Receipt: °C  
 Cooler 1 Therm Corr. Factor: °C  
 Cooler 1 Corrected Temp: °C  
 Comments: E42  
 11.4 ON ICE  
 Trip Blank Received: Y N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): Page: 1  
 YES / NO of: 1





# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP <b>222072277</b>		CHECKLIST		YES	NO
<b>Client</b> 5464 - Alvin Fairburn & Associates	<b>PM IL</b> 5464 - Alvin Fairburn & Associates	<b>Transport Method</b> CUSTOMER	Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Samples collected in containers provided by Pace Gulf Coast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
COOLERS			DISCREPANCIES	LAB PRESERVATIONS	
<b>Airbill</b>	<b>Thermometer ID:</b> E42	<b>Temp °C</b>	None		
		11.4			
NOTES	ON ICE				



**Report#:** 222072617

**Project ID:** WET WEATHER STORMWATER

**Report Date:** 08/01/2022

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## Case Narrative

**Client:** Alvin Fairburn & Associates      **Report:** 222072617

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**No anomalies were found for the analyzed sample(s).**



## Sample Summary

Lab ID	Client ID	Matrix	Collect Date	Receive Date
22207261701	#3	Water	7/26/22 11:20	7/26/22 11:35
22207261702	#4	Water	7/26/22 08:40	7/26/22 11:35
22207261703	#5	Water	7/26/22 09:00	7/26/22 11:35
22207261704	#6	Water	7/26/22 09:10	7/26/22 11:35
22207261705	#7	Water	7/26/22 09:20	7/26/22 11:35
22207261706	#8	Water	7/26/22 09:27	7/26/22 11:35
22207261707	#9	Water	7/26/22 09:35	7/26/22 11:35
22207261708	#10	Water	7/26/22 09:50	7/26/22 11:35
22207261709	#11	Water	7/26/22 10:15	7/26/22 11:35





## Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

### EPA 300.0, Rev 2.1

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261701	#3	Chloride	mg/L	4.79	1	NA
22207261701	#3	Sulfate	mg/L	3.66	1	NA
22207261702	#4	Chloride	mg/L	26.8	10	NA
22207261702	#4	Sulfate	mg/L	11.7	10	NA
22207261703	#5	Chloride	mg/L	5.09	1	NA
22207261703	#5	Sulfate	mg/L	5.17	1	NA
22207261704	#6	Chloride	mg/L	13.2	20	NA
22207261704	#6	Fluoride	mg/L	0.299	1	NA
22207261704	#6	Sulfate	mg/L	43.2	20	NA
22207261705	#7	Chloride	mg/L	4.17	1	NA
22207261705	#7	Sulfate	mg/L	4.15	1	NA
22207261706	#8	Chloride	mg/L	4.85	1	NA
22207261706	#8	Sulfate	mg/L	3.96	1	NA
22207261707	#9	Chloride	mg/L	14.9	10	NA
22207261707	#9	Sulfate	mg/L	11.5	10	NA
22207261708	#10	Chloride	mg/L	8.66	1	NA
22207261708	#10	Sulfate	mg/L	4.97	1	NA
22207261709	#11	Chloride	mg/L	3.02	1	NA
22207261709	#11	Sulfate	mg/L	2.04	1	NA

### SM 2540 D-2011

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261701	#3	Total Suspended Solids	mg/L	22	1	NA
22207261702	#4	Total Suspended Solids	mg/L	11	1	NA
22207261703	#5	Total Suspended Solids	mg/L	5	1	NA
22207261704	#6	Total Suspended Solids	mg/L	7	1	NA
22207261705	#7	Total Suspended Solids	mg/L	8	1	NA
22207261706	#8	Total Suspended Solids	mg/L	16	1	NA
22207261707	#9	Total Suspended Solids	mg/L	17	1	NA
22207261708	#10	Total Suspended Solids	mg/L	17	1	NA
22207261709	#11	Total Suspended Solids	mg/L	14	1	NA

### SM 5210 B-2016

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261703	#5	BOD	mg/L	3	1	NA

### SM 5310 B-2010

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261701	#3	Total Inorganic Carbon	mg/L	10.2	1	NA



## Detect Summary (Continued)

Results and Detection Limits are adjusted for dilution and moisture when applicable

SM 5310 B-2010						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261701	#3	Total Organic Carbon	mg/L	15.2	1	NA
22207261702	#4	Total Inorganic Carbon	mg/L	17.8	1	NA
22207261702	#4	Total Organic Carbon	mg/L	8.4	1	NA
22207261703	#5	Total Inorganic Carbon	mg/L	6.7	1	NA
22207261703	#5	Total Organic Carbon	mg/L	9.1	1	NA
22207261704	#6	Total Inorganic Carbon	mg/L	24.6	1	NA
22207261704	#6	Total Organic Carbon	mg/L	8.0	1	NA
22207261705	#7	Total Inorganic Carbon	mg/L	20.4	1	NA
22207261705	#7	Total Organic Carbon	mg/L	7.5	1	NA
22207261706	#8	Total Inorganic Carbon	mg/L	9.2	1	NA
22207261706	#8	Total Organic Carbon	mg/L	9.5	1	NA
22207261707	#9	Total Inorganic Carbon	mg/L	15.3	1	NA
22207261707	#9	Total Organic Carbon	mg/L	12.0	1	NA
22207261708	#10	Total Inorganic Carbon	mg/L	9.3	1	NA
22207261708	#10	Total Organic Carbon	mg/L	11.8	1	NA
22207261709	#11	Total Inorganic Carbon	mg/L	8.2	1	NA
22207261709	#11	Total Organic Carbon	mg/L	16.8	1	NA

SM 5540 C-2011						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261707	#9	Surfactants	mg/L-LAS	0.120	1	NA

SM 9222 D-1997 (Online Ed)						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22207261701	#3	Fecal Coliform	Col/100mL	90	1	NA
22207261702	#4	Fecal Coliform	Col/100mL	30	1	NA
22207261703	#5	Fecal Coliform	Col/100mL	150	1	NA
22207261704	#6	Fecal Coliform	Col/100mL	350	1	NA
22207261705	#7	Fecal Coliform	Col/100mL	390	1	NA
22207261706	#8	Fecal Coliform	Col/100mL	140	1	NA
22207261707	#9	Fecal Coliform	Col/100mL	30	1	NA
22207261709	#11	Fecal Coliform	Col/100mL	1110	1	NA



## Sample Results

<b>#3</b>	Collect Date	07/26/2022 11:20	Lab ID	22207261701
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 14:14	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	4.79	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	3.66	0.200	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 12:45	746316	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	22	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 22:18	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	<b>Total Inorganic Carbon</b>	10.2	2.0	mg/L
C-012	<b>Total Organic Carbon</b>	15.2	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:56	746268	LMH	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS





## Sample Results

<b>#3</b>	Collect Date	07/26/2022 11:20	Lab ID	22207261701
	Receive Date	07/26/2022 11:35	Matrix	Water

SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:23	746392	SW1	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
WET-042	<b>Fecal Coliform</b>	90	10	Col/100mL

<b>#4</b>	Collect Date	07/26/2022 08:40	Lab ID	22207261702
	Receive Date	07/26/2022 11:35	Matrix	Water

EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 14:53	746242	KEG	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N

EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	07/26/22 14:34	746242	KEG	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
16887-00-6	<b>Chloride</b>	26.8	2.00	mg/L
14808-79-8	<b>Sulfate</b>	11.7	2.00	mg/L

SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
C-009	<b>Total Suspended Solids</b>	11	5	mg/L



## Sample Results

<b>#4</b>	Collect Date	07/26/2022 08:40	Lab ID	22207261702
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 22:40	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	Total Inorganic Carbon	17.8	2.0	mg/L
C-012	Total Organic Carbon	8.4	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:56	746268	LMH	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:23	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	30	10	Col/100mL

<b>#5</b>	Collect Date	07/26/2022 09:00	Lab ID	22207261703
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 16:33	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	5.09	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N



## Sample Results

<b>#5</b>	Collect Date	07/26/2022 09:00	Lab ID	22207261703
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 16:33	746242	KEG	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
14808-79-8	Sulfate	5.17	0.200	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
C-009	Total Suspended Solids	5	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
C-002	BOD	3	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 22:57	746264	JGD	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
WET-017	Total Inorganic Carbon	6.7	2.0	mg/L
C-012	Total Organic Carbon	9.1	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:57	746268	LMH	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
000000-03-6	Surfactants	ND	0.100	mg/L-LAS





## Sample Results

<b>#5</b>	Collect Date	07/26/2022 09:00	Lab ID	22207261703
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:23	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	150	10	Col/100mL

<b>#6</b>	Collect Date	07/26/2022 09:10	Lab ID	22207261704
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 11:12	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	0.299	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	20	07/26/22 16:53	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	13.2	4.00	mg/L
14808-79-8	Sulfate	43.2	4.00	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	7	5	mg/L



## Sample Results

<b>#6</b>	Collect Date	07/26/2022 09:10	Lab ID	22207261704
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 23:15	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	Total Inorganic Carbon	24.6	2.0	mg/L
C-012	Total Organic Carbon	8.0	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:57	746268	LMH	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:34	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	350	10	Col/100mL

<b>#7</b>	Collect Date	07/26/2022 09:20	Lab ID	22207261705
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 17:57	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	4.17	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N



## Sample Results

<b>#7</b>	Collect Date	07/26/2022 09:20	Lab ID	22207261705
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 17:57	746242	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
14808-79-8	Sulfate		4.15	0.200			mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-009	Total Suspended Solids		8	5			mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-002	BOD		ND	3			mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 23:32	746264	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-017	Total Inorganic Carbon		20.4	2.0			mg/L
C-012	Total Organic Carbon		7.5	2.0			mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:58	746268	LMH	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
000000-03-6	Surfactants		ND	0.100			mg/L-LAS





## Sample Results

<b>#7</b>	Collect Date	07/26/2022 09:20	Lab ID	22207261705
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:23	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	390	10	Col/100mL

<b>#8</b>	Collect Date	07/26/2022 09:27	Lab ID	22207261706
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 18:37	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	4.85	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	Sulfate	3.96	0.200	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	16	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 23:50	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	Total Inorganic Carbon	9.2	2.0	mg/L



## Sample Results

<b>#8</b>	Collect Date	07/26/2022 09:27	Lab ID	22207261706
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 5310 B-2010 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 23:50	746264	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-012	Total Organic Carbon		9.5	2.0			mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:58	746268	LMH	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
000000-03-6	Surfactants		ND	0.100			mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:23	746392	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-042	Fecal Coliform		140	10			Col/100mL

<b>#9</b>	Collect Date	07/26/2022 09:35	Lab ID	22207261707
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 19:16	746242	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
16984-48-8	Fluoride		ND	0.200			mg/L
14797-55-8	Nitrate		ND	0.200			mg/L-N
14797-65-0	Nitrite		ND	0.200			mg/L-N

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	07/26/22 18:57	746242	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
16887-00-6	Chloride		14.9	2.00			mg/L



## Sample Results

<b>#9</b>	Collect Date	07/26/2022 09:35	Lab ID	22207261707
	Receive Date	07/26/2022 11:35	Matrix	Water

**EPA 300.0, Rev 2.1 (Continued)**

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	07/26/22 18:57	746242	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
14808-79-8	Sulfate		11.5	2.00			mg/L

**SM 2540 D-2011**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-009	Total Suspended Solids		17	5			mg/L

**SM 5210 B-2016**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-002	BOD		ND	3			mg/L

**SM 5310 B-2010**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 01:24	746264	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-017	Total Inorganic Carbon		15.3	2.0			mg/L
C-012	Total Organic Carbon		12.0	2.0			mg/L

**SM 5540 C-2011**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:58	746268	LMH	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
000000-03-6	Surfactants		0.120	0.100			mg/L-LAS





## Sample Results

<b>#9</b>	Collect Date	07/26/2022 09:35	Lab ID	22207261707
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:34	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	30	10	Col/100mL

<b>#10</b>	Collect Date	07/26/2022 09:50	Lab ID	22207261708
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 20:56	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	8.66	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	Sulfate	4.97	0.200	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 15:00	746265	LHM	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	17	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 01:42	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
WET-017	Total Inorganic Carbon	9.3	2.0	mg/L



## Sample Results

<b>#10</b>	Collect Date	07/26/2022 09:50	Lab ID	22207261708
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 5310 B-2010 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 01:42	746264	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	11.8	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:59	746268	LMH	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:34	746392	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	>2000	10	Col/100mL

<b>#11</b>	Collect Date	07/26/2022 10:15	Lab ID	22207261709
	Receive Date	07/26/2022 11:35	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 21:35	746242	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	3.02	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	Sulfate	2.04	0.200	mg/L



## Sample Results

<b>#11</b>	Collect Date	07/26/2022 10:15	Lab ID	22207261709
	Receive Date	07/26/2022 11:35	Matrix	Water

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 12:45	746316	JGD	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
C-009	Total Suspended Solids	14	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/27/22 14:45	746328	BOD PREP	1	07/27/22 14:45	746623	SW1	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
C-002	BOD	ND	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/27/22 02:00	746264	JGD	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
WET-017	Total Inorganic Carbon	8.2	2.0	mg/L
C-012	Total Organic Carbon	16.6	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
07/26/22 13:01	746249	SM 5540 C-2011	1	07/26/22 14:59	746268	LMH	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	07/26/22 12:34	746302	SW1	NA

<b>CAS#</b>	<b>Parameter</b>	<b>Result</b>	<b>LOQ</b>	<b>Units</b>
WET-042	Fecal Coliform	1110	10	Col/100mL





## General Chemistry QC Summary

<b>Analytical Batch</b> 746623		Client ID	MB746328	LCS746328				
<b>Prep Batch</b> 746328		Lab ID	2376293	2376295				
<b>Prep Method</b> BOD PREP		Sample Type	MB	LCS				
		Prep Date	07/27/22 14:45	07/27/22 14:45				
		Analysis Date	07/27/22 14:45	07/27/22 14:45				
		Matrix	Water	Water				
<b>SM 5210 B-2016</b>			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
BOD	C-002		ND	3	198	180	91	84.5 - 115.5

<b>Analytical Batch</b> 746268		Client ID	MB746249	LCS746249		LCSD746249							
<b>Prep Batch</b> 746249		Lab ID	2375780	2375781		2375782							
<b>Prep Method</b> SM 5540 C-2011		Sample Type	MB	LCS		LCSD							
		Prep Date	07/26/22 13:01	07/26/22 13:01		07/26/22 13:01							
		Analysis Date	07/26/22 14:55	07/26/22 14:55		07/26/22 14:55							
		Matrix	Water	Water		Water							
<b>SM 5540 C-2011</b>			Units Result	mg/L-LAS LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Surfactants	000000-03-6		ND	0.100	1.00	1.01	101	80 - 120	1.00	1.00	100	1	25

<b>Analytical Batch</b> 746242		Client ID	MB746242	LCS746242		LCSD746242							
		Lab ID	2375752	2375753		2376034							
		Sample Type	MB	LCS		LCSD							
		Prep Date	NA	NA		NA							
		Analysis Date	07/26/22 10:55	07/26/22 11:15		07/26/22 15:33							
		Matrix	Water	Water		Water							
<b>EPA 300.0, Rev 2.1</b>			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6		ND	0.200	2.50	2.45	98	80 - 120	2.50	2.46	98	0	15
Fluoride	16984-48-8		ND	0.200	2.50	2.46	99	80 - 120	2.50	2.48	99	1	15
Nitrate	14797-55-8		ND	0.200	2.50	2.42	97	80 - 120	2.50	2.43	97	1	15
Nitrite	14797-65-0		ND	0.200	2.50	2.44	98	80 - 120	2.50	2.46	98	0	15
Sulfate	14808-79-8		ND	0.200	2.50	2.43	97	80 - 120	2.50	2.44	97	0	15

<b>Analytical Batch</b> 746265		Client ID	MB746265
		Lab ID	2375902
		Sample Type	MB
		Prep Date	NA
		Analysis Date	07/26/22 15:00
		Matrix	Water
<b>SM 2540 D-2011</b>			Units Result
Total Suspended Solids	C-009		ND

<b>Analytical Batch</b> 746316		Client ID	MB746316
		Lab ID	2376231
		Sample Type	MB
		Prep Date	NA
		Analysis Date	07/27/22 12:45
		Matrix	Water
<b>SM 2540 D-2011</b>			Units Result
Total Suspended Solids	C-009		ND



## General Chemistry QC Summary

<b>Analytical Batch</b> 746264	Client ID	MB746264	LCS746264				LCSD746264						
	Lab ID	2375898	2375899				2375900						
	Sample Type	MB	LCS				LCSD						
	Prep Date	NA	NA				NA						
	Analysis Date	07/26/22 20:33	07/26/22 19:36				07/27/22 00:08						
	Matrix	Water	Water				Water						
<b>SM 5310 B-2010</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit	
Total Organic Carbon		C-012	ND	2.0	50.0	50.0	100	80 - 120	50.0	49.8	100	0	20



### CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.paceinfo.com/submit/pos-standard-terms.pdf>  
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY:

Client ID: 5464 - Alvin Fairburn & Associates

SDG: 222072617

PM: IML



ALL BO

Container Pr

Company: Alvin Fairburn & Associates  
Address: 1289 Del Este Ave., D.S., La 70726  
Report To: Shawn Hima  
Copy To:

Billing Information:  
Email To:  
Site Collection Info/Address:

Customer Project Name/Number: WET WEATHER STORMWATER

State: County/City: Time Zone Collected:  
LA / Denham Springs | |PT | |MT | |CT | |ET

Phone: (225) 276-4621  
Email: shawn@alvinfairburn.com

Site/Facility ID #:  
Purchase Order #:  
Quote #:

Compliance Monitoring?  
 Yes  No  
DWPWS ID #:  
DW Location Code:

Collected By (print):  
Shawn Hima

Turnaround Date Required:

Immediately Packed on Ice:  
 Yes  No

Collected By (signature):

Rush: (Expedite Charges Apply)  
 Same Day  Next Day  
 2 Day  3 Day  
 4 Day  5 Day

Field Filtered (if applicable):  
 Yes  No

Sample Disposal:  
 Dispose as appropriate  
 Return  
 Archive:  
 Hold:

Analysis:

Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	BOD	TSS	FECAL COLIFORM	SJRFACTANTS	CL-, N/N-, F-, SO4	TOC							
			Date	Time																	
#3	WW	G	7/26/22	11:20			7		X	X	X	X	X	X							
#4	WW	G	7/26/22	8:40			7		X	X	X	X	X	X							
#5	WW	G	7/26/22	9:00			7		X	X	X	X	X	X							
#6	WW	G	7/26/22	9:10			7		X	X	X	X	X	X							
#7	WW	G	7/26/22	9:20			7		X	X	X	X	X	X							
#8	WW	G	7/26/22	9:27			7		X	X	X	X	X	X							
#9	WW	G	7/26/22	9:35			7		X	X	X	X	X	X							
#10	WW	G	7/26/22	9:50			7		X	X	X	X	X	X							
#11	WW	G	7/26/22	10:15			7		X	X	X	X	X	X							

Container Type: Plastic (P) or Glass (G)

Lab Profile/Line: PGC 295428

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
MSDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA

Cl Strips: \_\_\_\_\_  
Sample pH Acceptable Y N NA  
pH Strips: \_\_\_\_\_  
Sulfide Present Y N NA  
Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY: Lab Sample # / Comments:

COND. umhas/cm	
Ph= 7.1	COND.= 120 mS/cm
Ph= 6.8	COND.= 270 mS/cm
Ph= 8.1	COND.= 110 mS/cm
Ph= 7.4	COND.= 360 mS/cm
Ph= 7.6	COND.= 220 mS/cm
Ph= 7.0	COND.= 100 mS/cm
Ph= 7.1	COND.= 180 mS/cm
Ph= 7.4	COND.= 130 mS/cm
Ph= 7.4	COND.= 110 mS/cm

#3  
#4  
#5  
#6  
#7  
#8  
#9  
#10  
#11

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None  
Packing Material Used:  
Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A  
Lab Tracking #:  
Samples received via:  
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:  
Temp Blank Received: Y N NA  
Therm ID#:  
Cooler 1 Temp Upon Receipt: °C  
Cooler 1 Therm Corr. Factor: °C  
Cooler 1 Corrected Temp: °C  
Comments:

Relinquished by/Company: (Signature)  
Date/Time: 7/26/22

Received by/Company: (Signature)  
Date/Time: 7-26-22 11:35

MTJL LAB USE ONLY  
Table #:  
Acctnum:  
Template:  
Prelogin:  
PM:  
PB:

516 E42  
Trip Blank Received: Y N NA  
HCL MeOH TSP Other  
Non-Conformance(s): Page: \_\_\_\_\_  
YES / NO of: \_\_\_\_\_





# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222072617			CHECKLIST		YES	NO
<b>Client</b> PM ML 5464 - Alvin Fairburn & Associates	<b>Transport Method</b> CUST		Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Profile Number</b> 295428	<b>Received By</b> Henderson, Jacob R.		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Line Item(s)</b> 1 - Stormwater	<b>Receive Date(s)</b> 07/26/22		All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Samples collected in containers provided by Pace Gulf Coast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
COOLERS			DISCREPANCIES	LAB PRESERVATIONS		
<b>Airbill</b>	<b>Thermometer ID:</b> E42	<b>Temp °C</b> 5.6	None	None		
<b>NOTES</b>						



LELAP Certificate Number: 01955  
A2LA Accredited (DoD ELAP-QSM 5.4) Certificate Number: 6429.01

# ANALYTICAL RESULTS

## PERFORMED BY

**Pace Analytical Gulf Coast**  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

**Report Date** 10/12/2022

**Report #** 222100608



**Project** Dry Weather Stormwater

**Samples Collected** 10/5/22

### ***Deliver To***

Shawn Hima  
Alvin Fairburn & Associates  
1289 Del Este Ave  
Denham Springs, LA 70726  
225-276-4621

### ***Additional Recipients***

H. Nathan Levy III, Lion Environmental - LLC



## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified reporting limit
<b>NO</b>	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>DL</b>	Detection Limit
<b>LOD</b>	Limit of Detection
<b>LOQ</b>	Limit of Quantitation
<b>RE</b>	Re-analysis
<b>CF</b>	HPLC or GC Confirmation
<b>00:01</b>	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

<b>J or I</b>	Indicates the result is between the MDL and LOQ
<b>J</b>	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B or V</b>	Indicates the analyte was detected in the associated Method Blank
<b>Q</b>	Indicates a non-compliant QC Result (See Q Flag Application Report)
<b>*</b>	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
<b>E</b>	Organics - The result is estimated because it exceeded the instrument calibration range
<b>E</b>	Metals - % difference for the serial dilution is > 10%
<b>L</b>	Reporting Limits adjusted to meet risk-based limit.
<b>P</b>	RPD between primary and confirmation result is greater than 40
<b>DL</b>	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Authorized Signature  
Pace Gulf Coast Report 222100608



## Certifications

<b>Certification</b>	<b>Certification Number</b>
A2LA Accredited (DoD ELAP-QSM 5.4)	6429.01
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234

## Case Narrative

**Client:** Alvin Fairburn & Associates      **Report:** 222100608

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### MISCELLANEOUS

Sample 22210060801 (1 NO FLOW) was received with a minimal volume of sample.

Sample 22210060802 (2) was received with a minimal volume of sample.

Sample 22210060803 (3) was received with a minimal volume of sample.

Sample 22210060804 (4) was received with a minimal volume of sample.

Sample 22210060805 (5) was received with a minimal volume of sample.

Sample 22210060806 (6) was received with a minimal volume of sample.

Sample 22210060807 (7) was received with a minimal volume of sample.

Sample 22210060808 (8) was received with a minimal volume of sample.

Sample 22210060809 (9) was received with a minimal volume of sample.

Sample 22210060810 (10) was received with a minimal volume of sample.

Sample 22210060811 (11) was received with a minimal volume of sample.

For Sample 22210060811 (11), a date, time of collection or sample ID discrepancy between a container label and the chain of custody was noted at receipt.



## Sample Summary

<b>Lab ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Collect Date</b>	<b>Receive Date</b>
22210060802	2	Water	10/05/22 11:45	10/05/22 14:19
22210060803	3	Water	10/05/22 12:00	10/05/22 14:19
22210060804	4	Water	10/05/22 12:10	10/05/22 14:19
22210060805	5	Water	10/05/22 12:25	10/05/22 14:19
22210060806	6	Water	10/05/22 12:35	10/05/22 14:19
22210060807	7	Water	10/05/22 12:45	10/05/22 14:19
22210060808	8	Water	10/05/22 12:55	10/05/22 14:19
22210060809	9	Water	10/05/22 13:05	10/05/22 14:19
22210060810	10	Water	10/05/22 13:30	10/05/22 14:19
22210060811	11	Water	10/05/22 00:01	10/05/22 14:19



## Detect Summary

Results and Detection Limits are adjusted for dilution and moisture when applicable

### EPA 300.0, Rev 2.1

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060802	2	Chloride	mg/L	9.38	1	NA
22210060802	2	Sulfate	mg/L	4.83	1	NA
22210060803	3	Chloride	mg/L	6.74	1	NA
22210060803	3	Sulfate	mg/L	1.59	1	NA
22210060804	4	Chloride	mg/L	52.6	10	NA
22210060804	4	Sulfate	mg/L	18.3	5	NA
22210060805	5	Chloride	mg/L	17.3	2	NA
22210060805	5	Sulfate	mg/L	6.05	1	NA
22210060806	6	Chloride	mg/L	128	20	NA
22210060806	6	Fluoride	mg/L	0.555	2	NA
22210060806	6	Sulfate	mg/L	150	20	NA
22210060807	7	Chloride	mg/L	6.75	1	NA
22210060807	7	Sulfate	mg/L	8.52	1	NA
22210060808	8	Chloride	mg/L	13.6	2	NA
22210060808	8	Sulfate	mg/L	2.22	1	NA
22210060809	9	Chloride	mg/L	24.4	5	NA
22210060809	9	Sulfate	mg/L	11.3	2	NA
22210060810	10	Chloride	mg/L	52.4	10	NA
22210060810	10	Nitrate	mg/L-N	0.572	1	NA
22210060810	10	Sulfate	mg/L	14.0	2	NA
22210060811	11	Chloride	mg/L	14.7	2	NA
22210060811	11	Sulfate	mg/L	8.96	1	NA

### SM 2540 D-2011

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060802	2	Total Suspended Solids	mg/L	272	1	NA
22210060803	3	Total Suspended Solids	mg/L	14	1	NA
22210060805	5	Total Suspended Solids	mg/L	79	1	NA
22210060806	6	Total Suspended Solids	mg/L	15	1	NA
22210060807	7	Total Suspended Solids	mg/L	20	1	NA
22210060808	8	Total Suspended Solids	mg/L	13	1	NA
22210060809	9	Total Suspended Solids	mg/L	9	1	NA
22210060810	10	Total Suspended Solids	mg/L	6	1	NA
22210060811	11	Total Suspended Solids	mg/L	18	1	NA

### SM 5210 B-2016

Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060802	2	BOD	mg/L	41	1	NA
22210060803	3	BOD	mg/L	45	1	NA

## Detect Summary (Continued)

Results and Detection Limits are adjusted for dilution and moisture when applicable

SM 5210 B-2016						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060804	4	BOD	mg/L	16	1	NA
22210060805	5	BOD	mg/L	69	1	NA
22210060806	6	BOD	mg/L	25	1	NA
22210060807	7	BOD	mg/L	20	1	NA
22210060808	8	BOD	mg/L	27	1	NA
22210060809	9	BOD	mg/L	24	1	NA
22210060810	10	BOD	mg/L	30	1	NA
22210060811	11	BOD	mg/L	34	1	NA

SM 5310 B-2010						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060802	2	Total Organic Carbon	mg/L	19.0	1	NA
22210060803	3	Total Organic Carbon	mg/L	10.5	1	NA
22210060804	4	Total Organic Carbon	mg/L	3.9	1	NA
22210060805	5	Total Organic Carbon	mg/L	10.6	1	NA
22210060806	6	Total Organic Carbon	mg/L	8.0	1	NA
22210060808	8	Total Organic Carbon	mg/L	11.9	1	NA
22210060809	9	Total Organic Carbon	mg/L	4.3	1	NA
22210060810	10	Total Organic Carbon	mg/L	3.3	1	NA

SM 5540 C-2011						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060802	2	Surfactants	mg/L-LAS	0.370	1	NA
22210060804	4	Surfactants	mg/L-LAS	0.320	1	NA
22210060805	5	Surfactants	mg/L-LAS	0.200	1	NA
22210060806	6	Surfactants	mg/L-LAS	0.200	1	NA

SM 9222 D-1997 (Online Ed)						
Lab ID	Client ID	Parameter	Units	Result	Dil.	%Moist
22210060804	4	Fecal Coliform	Col/100mL	110	1	NA

## Sample Results

<b>2</b>	Collect Date: 10/05/2022 11:45	Lab ID: 22210060802
	Receive Date: 10/05/2022 14:19	Matrix: Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 22:33	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	9.38	0.200	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	4.83	0.200	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 11:30	751346	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	272	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	<b>BOD</b>	41	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 23:39	751295	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	<b>Total Organic Carbon</b>	19.0	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:53	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	<b>Surfactants</b>	0.370	0.100	mg/L-LAS



## Sample Results

<b>2</b>	Collect Date	10/05/2022 11:45	Lab ID	22210060802
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 15:40	751235	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

<b>3</b>	Collect Date	10/05/2022 12:00	Lab ID	22210060803
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 22:51	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>6.74</b>	<b>0.200</b>	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>1.59</b>	<b>0.200</b>	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 11:30	751346	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	<b>14</b>	<b>5</b>	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	<b>BOD</b>	<b>45</b>	<b>3</b>	mg/L

## Sample Results

<b>3</b>	Collect Date	10/05/2022 12:00	Lab ID	22210060803
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 01:03	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	10.5	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:54	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 15:40	751235	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

<b>4</b>	Collect Date	10/05/2022 12:10	Lab ID	22210060804
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 23:08	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	5	10/06/22 15:18	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
14808-79-8	Sulfate	18.3	1.00	mg/L

## Sample Results

<b>4</b>	Collect Date	10/05/2022 12:10	Lab ID	22210060804
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	10/07/22 16:56	751363	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	52.6	2.00	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 11:30	751346	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	ND	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	16	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 01:20	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	3.9	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:54	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	0.320	0.100	mg/L-LAS



## Sample Results

<b>4</b>	Collect Date	10/05/2022 12:10	Lab ID	22210060804
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 15:40	751235	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	<b>Fecal Coliform</b>	<b>110</b>	<b>10</b>	Col/100mL

<b>5</b>	Collect Date	10/05/2022 12:25	Lab ID	22210060805
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 23:25	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>6.05</b>	<b>0.200</b>	mg/L

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/06/22 15:35	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>17.3</b>	<b>0.400</b>	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 11:30	751346	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	<b>79</b>	<b>5</b>	mg/L

## Sample Results

<b>5</b>	Collect Date	10/05/2022 12:25	Lab ID	22210060805
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-002	BOD		69	3			mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 01:38	751296	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-012	Total Organic Carbon		10.6	2.0			mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:55	751313	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
000000-03-6	Surfactants		0.200	0.100			mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 15:40	751235	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-042	Fecal Coliform		ND	10			Col/100mL

<b>6</b>	Collect Date	10/05/2022 12:35	Lab ID	22210060806
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/05/22 23:43	751231	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
16984-48-8	Fluoride		0.555	0.400			mg/L
14797-55-8	Nitrate		ND	0.400			mg/L-N
14797-65-0	Nitrite		ND	0.400			mg/L-N

## Sample Results

<b>6</b>	Collect Date	10/05/2022 12:35	Lab ID	22210060806
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	20	10/06/22 15:52	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	128	4.00	mg/L
14808-79-8	Sulfate	150	4.00	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 13:30	751347	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	15	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	25	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 01:58	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	8.0	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:56	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	0.200	0.100	mg/L-LAS



## Sample Results

<b>6</b>	Collect Date	10/05/2022 12:35	Lab ID	22210060806
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 15:40	751235	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

<b>7</b>	Collect Date	10/05/2022 12:45	Lab ID	22210060807
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 00:00	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>6.75</b>	<b>0.200</b>	mg/L
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>8.52</b>	<b>0.200</b>	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 13:30	751347	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	<b>20</b>	<b>5</b>	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	<b>BOD</b>	<b>20</b>	<b>3</b>	mg/L

## Sample Results

7	Collect Date	10/05/2022 12:45	Lab ID	22210060807
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 02:16	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	ND	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:56	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 16:08	751237	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

8	Collect Date	10/05/2022 12:55	Lab ID	22210060808
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 00:18	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>2.22</b>	<b>0.200</b>	mg/L

## Sample Results

<b>8</b>	Collect Date	10/05/2022 12:55	Lab ID	22210060808
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/06/22 16:10	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	13.6	0.400	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 13:30	751347	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	13	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	27	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 02:36	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	11.9	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:57	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS



## Sample Results

<b>8</b>	Collect Date	10/05/2022 12:55	Lab ID	22210060808
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 16:08	751237	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

<b>9</b>	Collect Date	10/05/2022 13:05	Lab ID	22210060809
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 00:35	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/06/22 16:44	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
14808-79-8	<b>Sulfate</b>	<b>11.3</b>	<b>0.400</b>	mg/L

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	5	10/06/22 16:27	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>24.4</b>	<b>1.00</b>	mg/L

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 13:30	751347	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-009	<b>Total Suspended Solids</b>	<b>9</b>	<b>5</b>	mg/L

## Sample Results

9	Collect Date	10/05/2022 13:05	Lab ID	22210060809
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-002	BOD		24	3			mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 02:54	751296	JGD	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
C-012	Total Organic Carbon		4.3	2.0			mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:57	751313	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
000000-03-6	Surfactants		ND	0.100			mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 16:08	751237	SW1	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
WET-042	Fecal Coliform		ND	10			Col/100mL

10	Collect Date	10/05/2022 13:30	Lab ID	22210060810
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 00:52	751231	KEG	NA
<b>CAS#</b>	<b>Parameter</b>		<b>Result</b>	<b>LOQ</b>			<b>Units</b>
16984-48-8	Fluoride		ND	0.200			mg/L
14797-55-8	Nitrate		0.572	0.200			mg/L-N
14797-65-0	Nitrite		ND	0.200			mg/L-N

## Sample Results

<b>10</b>	<b>Collect Date</b> 10/05/2022 13:30	<b>Lab ID</b> 22210060810
	<b>Receive Date</b> 10/05/2022 14:19	<b>Matrix</b> Water

**EPA 300.0, Rev 2.1**

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/06/22 17:19	751293	KEG	NA

<b>CAS#</b> 14808-79-8	<b>Parameter</b> Sulfate	<b>Result</b> 14.0	<b>LOQ</b> 0.400	<b>Units</b> mg/L
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**EPA 300.0, Rev 2.1**

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	10	10/07/22 17:13	751363	KEG	NA

<b>CAS#</b> 16887-00-6	<b>Parameter</b> Chloride	<b>Result</b> 52.4	<b>LOQ</b> 2.00	<b>Units</b> mg/L
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**SM 2540 D-2011**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 13:30	751347	JGD	NA

<b>CAS#</b> C-009	<b>Parameter</b> Total Suspended Solids	<b>Result</b> 6	<b>LOQ</b> 5	<b>Units</b> mg/L
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**SM 5210 B-2016**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

<b>CAS#</b> C-002	<b>Parameter</b> BOD	<b>Result</b> 30	<b>LOQ</b> 3	<b>Units</b> mg/L
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**SM 5310 B-2010**

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 03:12	751296	JGD	NA

<b>CAS#</b> C-012	<b>Parameter</b> Total Organic Carbon	<b>Result</b> 3.3	<b>LOQ</b> 2.0	<b>Units</b> mg/L
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## Sample Results

10	Collect Date	10/05/2022 13:30	Lab ID	22210060810
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:58	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 16:08	751237	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

11	Collect Date	10/05/2022 00:01	Lab ID	22210060811
	Receive Date	10/05/2022 14:19	Matrix	Water

### EPA 300.0, Rev 2.1

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 01:10	751231	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16984-48-8	Fluoride	ND	0.200	mg/L
14797-55-8	Nitrate	ND	0.200	mg/L-N
14797-65-0	Nitrite	ND	0.200	mg/L-N
14808-79-8	<b>Sulfate</b>	<b>8.96</b>	<b>0.200</b>	mg/L

### EPA 300.0, Rev 2.1

\*Results and limits are adjusted for dilution.

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	2	10/06/22 18:31	751293	KEG	NA

CAS#	Parameter	Result	LOQ	Units
16887-00-6	<b>Chloride</b>	<b>14.7</b>	<b>0.400</b>	mg/L

## Sample Results

11	Collect Date	10/05/2022 00:01	Lab ID	22210060811
	Receive Date	10/05/2022 14:19	Matrix	Water

### SM 2540 D-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/06/22 14:35	751269	LHM	NA

CAS#	Parameter	Result	LOQ	Units
C-009	Total Suspended Solids	18	5	mg/L

### SM 5210 B-2016

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/06/22 13:52	751320	BOD PREP	1	10/06/22 13:52	751650	LFL	NA

CAS#	Parameter	Result	LOQ	Units
C-002	BOD	34	3	mg/L

### SM 5310 B-2010

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/07/22 03:29	751296	JGD	NA

CAS#	Parameter	Result	LOQ	Units
C-012	Total Organic Carbon	ND	2.0	mg/L

### SM 5540 C-2011

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
10/05/22 15:00	751312	SM 5540 C-2011	1	10/05/22 16:58	751313	KEG	NA

CAS#	Parameter	Result	LOQ	Units
000000-03-6	Surfactants	ND	0.100	mg/L-LAS

### SM 9222 D-1997 (Online Ed)

Prep Date	Prep Batch	Prep Method	Dilution	Run Date	Run Batch	Analyst	%Moisture
NA	NA	NA	1	10/05/22 16:08	751237	SW1	NA

CAS#	Parameter	Result	LOQ	Units
WET-042	Fecal Coliform	ND	10	Col/100mL

## General Chemistry QC Summary

<b>Analytical Batch</b> 751650		Client ID MB751320	LCS751320				
<b>Prep Batch</b> 751320		Lab ID 2405112	2405114				
<b>Prep Method</b> BOD PREP		Sample Type MB	LCS				
		Prep Date 10/06/22 13:52	10/06/22 13:52				
		Analysis Date 10/06/22 13:52	10/06/22 13:52				
		Matrix Water	Water				
<b>SM 5210 B-2016</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
BOD	C-002	ND	3	198	201	102	84.5 - 115.5

<b>Analytical Batch</b> 751313		Client ID MB751312	LCS751312		LCSD751312							
<b>Prep Batch</b> 751312		Lab ID 2405012	2405013		2405014							
<b>Prep Method</b> SM 5540 C-2011		Sample Type MB	LCS		LCSD							
		Prep Date 10/05/22 15:00	10/05/22 15:00		10/05/22 15:00							
		Analysis Date 10/05/22 16:52	10/05/22 16:52		10/05/22 16:53							
		Matrix Water	Water		Water							
<b>SM 5540 C-2011</b>		Units Result	mg/L-LAS LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Surfactants	000000-03-6	ND	0.100	1.00	0.950	95	80 - 120	1.00	0.930	93	2	25

<b>Analytical Batch</b> 751231		Client ID MB751231	LCS751231		LCSD751231							
		Lab ID 2404278	2404279		2404280							
		Sample Type MB	LCS		LCSD							
		Prep Date NA	NA		NA							
		Analysis Date 10/05/22 17:50	10/05/22 18:13		10/05/22 21:59							
		Matrix Water	Water		Water							
<b>EPA 300.0, Rev 2.1</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	ND	0.200	2.50	2.31	93	80 - 120	2.50	2.33	93	1	15
Fluoride	16984-48-8	ND	0.200	2.50	2.55	102	80 - 120	2.50	2.56	102	0	15
Nitrate	14797-55-8	ND	0.200	2.50	2.40	96	80 - 120	2.50	2.40	96	0	15
Nitrite	14797-65-0	ND	0.200	2.50	2.45	98	80 - 120	2.50	2.46	98	0	15
Sulfate	14808-79-8	ND	0.200	2.50	2.39	96	80 - 120	2.50	2.42	97	1	15

<b>Analytical Batch</b> 751293		Client ID MB751293	LCS751293		LCSD751293							
		Lab ID 2404629	2404630		2404631							
		Sample Type MB	LCS		LCSD							
		Prep Date NA	NA		NA							
		Analysis Date 10/06/22 10:05	10/06/22 10:22		10/06/22 14:08							
		Matrix Water	Water		Water							
<b>EPA 300.0, Rev 2.1</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	ND	0.200	2.50	2.30	92	80 - 120	2.50	2.29	92	0	15
Sulfate	14808-79-8	ND	0.200	2.50	2.41	96	80 - 120	2.50	2.43	97	1	15

<b>Analytical Batch</b> 751363		Client ID MB751363	LCS751363		LCSD751363							
		Lab ID 2405268	2405269		2405270							
		Sample Type MB	LCS		LCSD							
		Prep Date NA	NA		NA							
		Analysis Date 10/07/22 10:51	10/07/22 11:09		10/07/22 14:37							
		Matrix Water	Water		Water							
<b>EPA 300.0, Rev 2.1</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloride	16887-00-6	ND	0.200	2.50	2.34	94	80 - 120	2.50	2.29	92	2	15



## General Chemistry QC Summary

<b>Analytical Batch</b> 751269	Client ID MB751269	Lab ID 2404471	Sample Type MB	Prep Date NA	Analysis Date 10/06/22 14:35	Matrix Water
<b>SM 2540 D-2011</b>						
		Units Result	mg/L LOQ			
Total Suspended Solids	C-009	ND	5			

<b>Analytical Batch</b> 751346	Client ID MB751346	Lab ID 2405188	Sample Type MB	Prep Date NA	Analysis Date 10/07/22 11:30	Matrix Water
<b>SM 2540 D-2011</b>						
		Units Result	mg/L LOQ			
Total Suspended Solids	C-009	ND	5			

<b>Analytical Batch</b> 751347	Client ID MB751347	Lab ID 2405189	Sample Type MB	Prep Date NA	Analysis Date 10/07/22 13:30	Matrix Water
<b>SM 2540 D-2011</b>						
		Units Result	mg/L LOQ			
Total Suspended Solids	C-009	ND	5			

<b>Analytical Batch</b> 751295	Client ID MB751295	Lab ID 2404666	Sample Type MB	Prep Date NA	Analysis Date 10/06/22 15:39	Matrix Water	LCS751295 2404667 LCS NA 10/06/22 14:44 Water	LCSD751295 2404668 LCSD NA 10/06/22 19:37 Water				
<b>SM 5310 B-2010</b>												
		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	ND	2.0	50.0	49.3	99	80 - 120	50.0	50.2	100	2	20

<b>Analytical Batch</b> 751296	Client ID MB751296	Lab ID 2404669	Sample Type MB	Prep Date NA	Analysis Date 10/07/22 00:43	Matrix Water	LCS751296 2404670 LCS NA 10/06/22 23:58 Water	LCSD751296 2404671 LCSD NA 10/07/22 04:10 Water				
<b>SM 5310 B-2010</b>												
		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	ND	2.0	50.0	50.7	101	80 - 120	50.0	50.7	101	0	20



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Alvin Fairburn & Associates  
Address: 1789 Del Este Ave  
Report To: Shawn Hima

Billing Information:  
Email To:

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: DRY WEATHER STORMWATER

State: County/City: Time Zone Collected:  
[ ] PT [ ] MT [ ] CT [ ] ET

Phone: 225-276-4621  
Email:

Site/Facility ID #:  
Purchase Order #:  
Quote #:

Compliance Monitoring?  
[ x ] Yes [ ] No

Collected By (print):

Turnaround Date Required:

DW PWS ID #:  
DW Location Code:  
Immediately Packed on Ice:  
[ x ] Yes [ ] No

Collected By (signature):

Rush:  
[ ] Same Day [ ] Next Day  
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ X ] 5 Day  
(Expedite Charges Apply)

Field Filtered (if applicable):  
[ ] Yes [ ] No

Sample Disposal:  
[ x ] Dispose as appropriate  
[ ] Return  
[ ] Archive:  
[ ] Hold:

Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	BOD	TSS	FECAL COLIFORM	SURFACTANTS	CL,N,N,F,SO4	TOC
			Date	Time	Date	Time								
1	WW	G	10/5	11:40			7	X	X	X	X	X	X	X
2	WW	G	10/5	11:45			7	X	X	X	X	X	X	X
3	WW	G	10/5	12:00			7	X	X	X	X	X	X	X
4	WW	G	10/5	12:10			7	X	X	X	X	X	X	X
5	WW	G	10/5	12:25			7	X	X	X	X	X	X	X
6	WW	G	10/5	12:35			7	X	X	X	X	X	X	X
7	WW	G	10/5	12:45			7	X	X	X	X	X	X	X
8	WW	G	10/5	12:55			7	X	X	X	X	X	X	X
9	WW	G	10/5	1:05			7	X	X	X	X	X	X	X
10	WW	G	10/5	1:30			7	X	X	X	X	X	X	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

LAB Sample Temperature Info:  
Temp Blank Received: Y N NA

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #:  
Samples received via:  
FEDEX UPS Client Courier Pace Courier

Therm ID#:  
Cooler 1 Temp Upon Receipt: °C  
Cooler 1 Therm Corr. Factor: °C  
Cooler 1 Corrected Temp: °C

Relinquished by/Company: (Signature)

Date/Time: 10-5-22 14:19

Received by/Company: (Signature)  
Date/Time: 10/5/22

Comments: 15.4  
21.2

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)  
Date/Time:

Trip Blank Received: Y N NA  
HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)  
Date/Time:

Acctnum:  
Template:  
Prelogin:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)  
Date/Time:

PM:  
PB:

Non Conformance(s): YES / NO

Page: 1 of 1

MTJL LAB USE ONLY  
Table #:

Page: 1 of 1

LAB USE ONLY - A

Client ID: 5464 - Alvin Fairburn & Associates

SDG: 222100608



PM: IML

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

ALL:

Container Pres

Analyses

Lab Profile/Line: PGC 295428

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:  
Lab Sample # / Comments:

Ph = N/A Cond = N/A  
Ph = 6.9 Cond = 360  
Ph = 6.9 Cond = 190  
Ph = 6.7 Cond = 380  
Ph = 9.6 Cond = 240  
Ph = 7.3 Cond = 1,400  
Ph = 8.1 Cond = 250  
Ph = 7.4 Cond = 250  
Ph = 7.3 Cond = 410  
Ph = 7.5 Cond = 420





### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Alvin Fairburn & Associates

Address:  
1789 Del Este Ave  
Report To: Shawn Hima

Copy To:

Customer Project Name/Number: DRY WEATHER  
STORMWATER

Phone: 225-276-4621

Email:

Collected By (print):

Collected By (signature):

Sample Disposal:  
 Dispose as appropriate  
 Return  
 Archive:  
 Hold:

Billing Information:

Email To:

Site Collection Info/Address:

State: County/City: Time Zone Collected:  
 PT  MT  CT  ET

Compliance Monitoring?  
 Yes  No

DW PWS ID #: DW Location Code:

Turnaround Date Required: Immediately Packed on Ice:  
 Yes  No

Rush:  
 Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
 (Expedite Charges Apply)  
 Field Filtered (if applicable):  
 Yes  No  
 Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	BOD	TSS	FECAL COLIFORM	SURFACTANTS	CL,N,N,F,SO4	TOC
			Date	Time	Date	Time								
11	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X
	WW							7	X	X	X	X	X	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) Date/Time: 10/5/22

Received by/Company: (Signature) Date/Time: 10/5/22

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

LAB USE OF

Client ID: 5464 - Alvin Fairburn & Associates

SDG: 222100608



PM: IML

Container: 8

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: PGC 295428

Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signature Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: \_\_\_\_\_  
 Sample pH Acceptable Y N NA  
 pH Strips: \_\_\_\_\_  
 Sulfide Present Y N NA  
 Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
 Lab Sample # / Comments:

Ph = 7.6 Cond = 29

uS/cm

LAB Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: °C

Cooler 1 Therm Corr. Factor: °C

Cooler 1 Corrected Temp: °C

Comments: E42 71.2

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: 1

of: 1





# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 222100608		CHECKLIST		YES	NO
<b>Client</b> PM IL 5464 - Alvin Fairburn & Associates	<b>Transport Method</b> CUST	Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Profile Number</b> 295428	<b>Received By</b> Henderson, Jacob R	COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Line Item(s)</b> 1 - Stormwater	<b>Receive Date(s)</b> 10/05/22	All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
		If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Samples collected in containers provided by Pace Gulf Coast?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
COOLERS		DISCREPANCIES	LAB PRESERVATIONS		
<b>Airbill</b>	<b>Thermometer ID:</b> E42	<b>Temp °C</b>  21.3	None		
		Low sample volume: 22210060801 - 1 22210060802 - 2, 22210060803 - 3 22210060804 - 4, 22210060805 - 5 22210060806 - 6, 22210060807 - 7 22210060808 - 8, 22210060809 - 9 22210060810 - 10, 22210060811 - 11 Missing sample: 22210060801 - 1 Sample Discrepancy: 22210060811 - 11			
NOTES					

**ATTACHMENT L**

**CITY OF DENHAM SPRINGS**  
**GARDEN AND LANDSCAPING**  
**IMPROVEMENTS**  
**MUNICIPAL OAKS PAVILLION**

