



St. Bernard Parish Government

Department of Public Works

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Guy McInnis
Parish President

December 17, 2019

Permit Compliance Unit
Office of Environmental Compliance
Louisiana Department of Environmental Quality
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312

Re: NPDES MS4 Permit No. LAR040000
2019 Annual Report (1/1/2019 through 12/31/2019)

In accordance with the provisions of the Municipal Separate Storm Sewer System (MS4) Permit compliance, St. Bernard Parish is hereby submitting the Annual Report which covers the period of January 1, 2019 to December 31, 2019.

I certify under penalty of law that this document and all attachments were prepared under my direction in accordance with a system designed to assure that qualified professional personnel of St Bernard Parish Government 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.

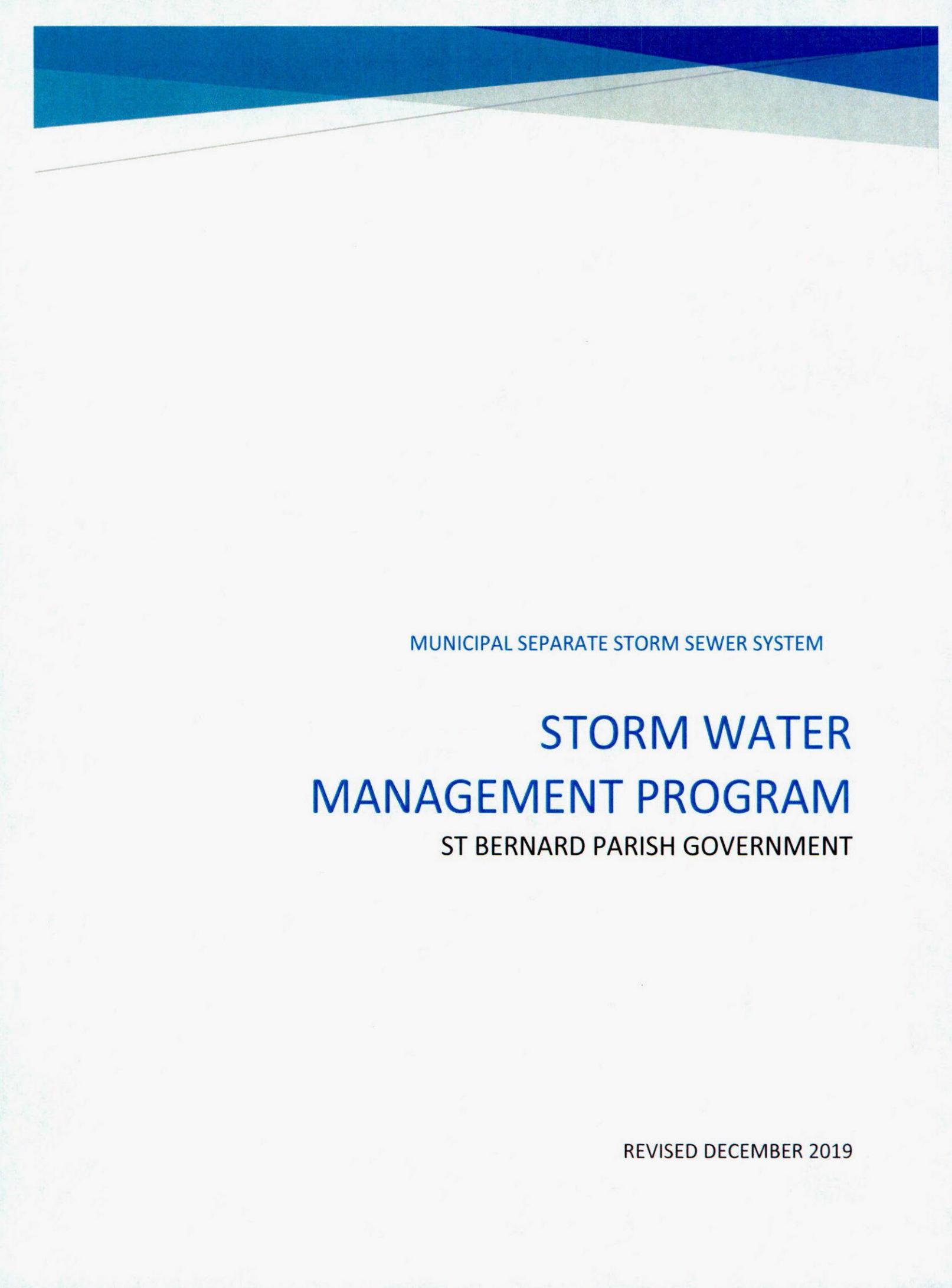
If you have any questions regarding this matter, please do not hesitate to call my office.

Sincerely,

Matthew Falati
Director
Department of Public Works
St. Bernard Parish

Enclosures

cc: Guy McInnis, Parish President, St. Bernard Parish
Ronnie Alonzo, Chief Administrative Officer, St. Bernard Parish
Alana Rocha, Staff Engineer, St. Bernard Parish



MUNICIPAL SEPARATE STORM SEWER SYSTEM

**STORM WATER
MANAGEMENT PROGRAM**

ST BERNARD PARISH GOVERNMENT

REVISED DECEMBER 2019

Introduction

In 1972, the Federal Water Pollution Control Act was passed with the intent to eliminate the discharge of pollutants into navigable waters, to protect and propagate shellfish and wildlife, to provide for recreation in or on the waters of the nation, and to prohibit the discharge of toxic pollutants in concentrations which would impair the multiple uses of all waters. Over the next thirty years, various legislation was enacted that addressed aspects of both point source and non-point source (NPS) pollution. By 1994, the "National Water Quality Inventory" indicated that stormwater discharges from sources such as separate storm sewers, construction sites, waste disposal sites, and resource extraction activities were major causes of water quality impairment.

The National Pollutant Discharge Elimination System (NPDES) Phase I Stormwater regulations were developed in response to the 1987 Amendments to the Clean Water Act (CWA). Under Phase I, the Environmental Protection Agency (EPA) mandated medium and large municipal separate storm sewer systems (MS4) located in incorporated communities or counties with populations of 100,000 or more to permit their stormwater discharges with the intent to produce significant reductions in pollutant discharges and improvement in surface water quality. Municipal separate storm sewer systems include stormwater conveyance through means of subsurface piping, catch basins, ditches, man-made canals and/or storm drains owned or operated by a public body, designed or used for collecting and conveying stormwater, is not a combined sewer and is not part of a publicly owned treatment works. Ultimately, federally mandated Phase II Stormwater Regulations were passed to address the small MS4s (serving less than 100,000 persons).

Effective February 2000, small MS4 operators in urbanized areas and construction sites that disturb one to five acres became regulated. EPA believes that the implementation of minimum control measures identified for small MS4s should significantly reduce pollutants in urban storm water compared to existing levels

St. Bernard Parish (Parish) is a Parish located in the southeast region of Louisiana and is home to approximately 44,000 residents. The Parish Seat and largest city is Chalmette. The Parish is an operator of a Small Municipal Separate Storm Sewer System. Detailed descriptions of canals within the Parish can be found in Appendix A.

The LPDES MS4 Permit required the Parish to develop a MS4 Stormwater Management Program Plan (this document) and to submit annual reports documenting implementation of the plan. Modifications to this MS4 Program Plan are expected throughout the life of the permit. Louisiana Pollutant Discharge Elimination System (LPDES) Permit, No. LAR040000, outlines the requirements for each of six required program components, known as minimum control measures. These control measures include the following:

- Public Education and Outreach on Stormwater Impacts
- Public Involvement and Participation

- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

Each minimum control measure section of this storm water management plan includes best management practices which identify selected management practices and activities that the Parish will implement and measurable goals for each of the management practices and activities that have been. Measurable goals are identified to aid in the assessment of plan implementation and progress all in accordance with measures described in General Permit Number LAR040000, AI 94338, PER20120001, Part IV D(1).

The actions and programs listed in the following sections should continue to occur during every year of the permit cycle. Measures implemented during each reporting period will be documented in the corresponding MS4 Annual Report.

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Minimum Control Measure 1: Public Education and Outreach on Stormwater Impacts

1.1 Introduction:

Community support is critical to ensure the success of any storm water management program and the implementation of watershed management practices. Educational activities are not only an important part of the storm water management program but are required by the MS4 permit.

To promote watershed stewardship and awareness of nonpoint source pollution, the Parish will distribute educational materials to the community (either indirectly or directly) and/or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff. These efforts are intended to encourage Parish citizens to play an active role in protecting local water resources.

1.2 Selected Activities and Best Management Practices:

1.2.1 Household and Business Hazardous Waste Education and Minimization

The Parish employs staff to address municipal solid waste, universal waste and hazardous waste issues. The staff also addresses and will contribute to address employee awareness and community education which includes the following activities:

- The Parish will make efforts to educate citizens and business (through public hearing or site visits) about the proper Parish and Federal guidelines on the disposal of grease and other illicit discharges. The Parish will identify businesses receiving complaints on disposal of grease, oils or other illicit discharges and will issue educational brochures for best management practices that address the storage, disposal, and spills annually. (Additionally, the Parish will periodically inspect vacuum receipts of local businesses requiring grease traps.)

1.2.2 Illicit Discharge Education

Stormwater related information will be available on the Parish's website for the general public. The site may contain links to EPA, LDEQ, and other relevant web pages related to storm water pollution, MS4, and TMDLs.

- Information on best management practices, alternative options of best management practices and proper disposal techniques for non-storm water discharges will be made available to residents and businesses via cable access television, parish website, flyers and/or public notices.

1.3 Necessary Documents/ Measurable Goals:

- Efforts of outreach to businesses through site visits will be recorded.
- A list of businesses receiving numerous complaints regarding illicit discharges will be recorded. Additionally, inspected grease trap vacuum receipts will be recorded.
- The department of public works will work with the department of administration in order to post biannually on the website. The general target pollutants will be trash recycling, litter and hazardous waste. The department of public works will keep records of dates of public notices and public access television broadcast.

Minimum Control Measure 2: Public Involvement and Participation

2.1 Introduction:

The Public Involvement and Participation minimum control measure focuses on activities specifically involving the public in the development, implementation and evaluation of the local storm water management program. Involving the public and stakeholders early on in the storm water management planning process should improve support for programs as parties should be able to voice their concerns and suggestions for the program.

St. Bernard Parish is committed to meeting public notice requirements regarding implementation of the LPDES permit.

2.2 Selected Activities and Best Management Practices:

2.2.1 Policies and Ordinances

- ~~The Parish will continue to conduct an annual “Household Waste Recycling” event. The event will provide an opportunity for residents to properly dispose of household products that would subject waterbodies to adverse impacts. Examples of waste accepted by the Parish will include the following:~~
 - ~~Electronic waste~~
 - ~~Latex paint in recyclable condition~~
 - ~~Oil-based paint in half gallon or greater quantities~~
- ~~The Parish will continue tracking and responding to citizen complaints and concerns. These complaints and concerns are received in a number of ways including through the Parish website, telephone calls, emails and verbal communication with Parish officials.~~

2.2.2 Policies and Ordinances

- ~~The Parish will continue to enforce Section 5-145 and Section 11-65 of the code of ordinances which state the following:~~

2.2.3 Public Notice and Participation

Providing an opportunity for public input should allow the Parish to take advantage of the knowledge of residents and ensure that storm water management efforts have the support

of the community. St. Bernard Parish will ensure these efforts reach the public and stakeholders including but not limited to commercial and industrial businesses and associations, environmental groups, homeowners associations, and educational institutions. The Parish is also committed to complying with local, state, and federal public notice requirements for local ordinances or legislative actions related to the storm water management program. Measurements to administer these commitments include the following:

- The Parish will meet legal obligations with respect to public notice and comment regarding the storm water management program and permit requirements by having a minimum of one annual public meeting on SWMP. The parish currently has a monthly council meeting, which provides an opportunity to reach citizens. The Department of Public Works will annually place an item on the council meeting agenda dealing with storm water pollution prevention. Council meetings are open to the general public.

2.2.4 Staff and Public Support

St. Bernard Parish will utilize existing staff and encourage the public to support departments to gather citizen/stakeholder input into the Parish's storm water program. Citizen/stakeholder input strengthens the overall program. This input provides valuable feedback regarding the Parish's storm water management programs and helps to assess the effectiveness of different efforts from a citizen perspective.

Measures to include staff and public support include the following:

- St. Bernard will utilize existing staff to support departments which meet with citizen/stakeholder groups.

2.2.5 Outreach Event Participation

The Parish is fortunate to have several government entities and non-profit organizations that encourage staff and the public to clean the environment through local litter clean-up efforts (such as the Bayou Trash Bash).

In addition to current efforts, the Parish commits to the following:

- The Parish will actively promote and sponsor a minimum of one annual cleanup event with the goal of reducing pollution and encouraging other residents to become more actively involved in cleanup activities.
- The Parish will provide a telephone number on the Parish website for citizens to report storm water concerns or complaints.

2.3 Necessary Documents/ Measurable Goals:

- Documentation of citizen's comments and concerns when voiced during the council meeting regarding current storm water practices or the draft MS4 Stormwater Management Plan
- Dates and attendance of public meetings held for permitting of hazardous waste and/or sewerage
- Documentation of advertisement for annual community clean up event
- Resident complaints and work order numbers of complaint responses will be recorded

Minimum Control Measure 3: Illicit Discharge Detection and Elimination

3.1 Introduction:

This section provides background information on the regulatory aspects of reducing illicit discharges as well as general requirements outlined in the LPDES General Permit No. LAR040000. Illicit discharges include wastes and wastewater from non-storm water sources. Allowable non-storm water discharges are listed in Appendix C. Illicit discharges enter the collection system through either direct connections such as piping mistakenly or deliberately connected to the storm drains or indirect connections such as infiltration into the MS4 from cracked sanitary sewer pipes. The purpose of this Program is to develop, implement and enforce procedures and practices by St. Bernard Parish to address potential pollutants generated by the discharge of non-storm water.

3.2 Selected Activities and Best Management Practices:

3.2.1 Policies and Ordinances on Non-Storm Water Discharge into MS4

- The Parish will continue to enforce the St. Bernard Parish Municipal Code sections 5 and 11 that prohibits the dumping and depositing of materials in any pond, lake, bayou, canal, ditch, bay, and any other body of water or drainage source within the parish. The departments of Water and Sewer, Public Works, and Complaints will be in charge of enforcing the continually ongoing compliance with the following ordinances:

Section 5-140.a.1

“The storage, treatment, transfer and/or disposal of hazardous waste in the wetlands and waterways of St. Bernard Parish and in close proximity to residential areas of St. Bernard Parish presents a clear and present danger to the health, safety and welfare of St. Bernard Parish’s residents and the fragile environment of the parish. Disposal of waste in such area should be absolutely prohibited.”

Section 5-140.a.5

“Underground injection wells and other facilities for the storage, treatment, transfer and/or disposal of any type of waste can be used to store or dispose of hazardous waste to the potential detriment of the health, safety and welfare of the citizens of St. Bernard Parish and the environment thereof. It is therefore necessary that local government permit, monitor and oversee the construction and use of all facilities designed to store, treat, transfer and/or dispose of any type of waste to assure that waste is not stored or disposed of in a manner inimical to the safety and well-being of the citizens of St. Bernard Parish and the environment.”

Section 5-145

"(a) No permit for storage, treatment, transferal or disposal of hazardous waste or for the development of any waste site or facility shall be issued until a public hearing is held thereon. The purpose of the public hearing shall be to gather facts, opinions and other input regarding the permit application or renewal thereof.

(b) A public hearing shall be called by the St. Bernard Parish Council within sixty (60) days of submission of the permit application. Before the public hearing is held, the applicant shall comply with the following requirements:

(1) Advertising of the public hearing shall be made by publishing two (2) times in the official journal of St. Bernard Parish an advertisement, which advertisement shall include the following "Public Hearing For Waste Storage, Treatment, Transfer Or Disposal Facility". The advertisement shall also state the date, time and place of the hearing and the fact that any interested person may appear and be heard. The advertisement shall appear at intervals of at least one (1) week with the first advertisement appearing at thirty (30) days prior to the public hearing date. Size of advertisement shall be eight (8) inches by five (5) inches and shall be published at the owner's expense. Certified copy of the notice shall be submitted to the department of safety and permits.

(2) Notice of the public hearing shall be posted at least two (2) weeks prior to the hearing in a prominent place at the St. Bernard Parish Council Building, all parish libraries and any other location deemed pertinent by the St. Bernard Parish Council.

(3) Copies of the application and all attachments shall be made available to the public at the office of the St. Bernard Parish Council at least thirty (30) days prior to the hearing.

(c) Any interested person shall have the right to comment verbally or in writing at the public hearing. Written comments will be accepted and entered into the public hearing record for five (5) working days after the hearing."

Section 11-20.b.5

"No person shall throw or deposit litter in any fountain, pond, lake, bayou, canal, ditch, bay or any other body of water or drainage source within the parish."

Section 11-20e.1

"No person shall dispose or permit the disposal of litter upon any public place in the parish, upon private property in this parish not owned by him, upon property located in rural areas in this parish not owned by him, or in or on the waters of this state or parish, whether from a vehicle or otherwise, including but not limited to any public roadway, public right-of-way, public park, beach, campground, forest, land, recreational area, trailer park, highway, road, street, or alley, except when such property is designated by the state or by any of its agencies or political subdivisions for the disposal of such litter

and such person is authorized to use such property for such purpose. For a first violation, violators shall either be fined not less than fifty dollars (\$50.00) nor more than seventy-five dollars (\$75.00) or given the option to perform eight (8) hours of community service in a litter abatement work program in lieu of the assessed fine. For a second and each subsequent violation, violators shall either be fined not less than one hundred dollars (\$100.00) nor more than five hundred dollars (\$500.00) or be given the option to perform sixteen (16) hours of community service in a litter abatement work program in lieu of the assessed fine."

Section 11-20.i.1

"No person shall dispose or permit the disposal of litter resulting from industrial commercial, mining, or agricultural operations in which the person has a financial interest upon any public place in the parish, upon private property in this parish not owned by him, upon property located in rural areas in this parish not owned by him, or in or on the waters of this state or parish, whether from a vehicle or otherwise, including but not limited to any public roadway, public right-of-way. Public park, beach, campground, forest land, recreational area, trailer park, highway, road, street, or alley, except when such property is designated by the state or by any of its agencies or political subdivision for the disposal of such items and such person is authorized to use such property for such purpose."

Section 11-20.i.2

"No person shall operate any commercial truck or other commercial vehicle on any public roadway in such a manner or condition that litter resulting from industrial, commercial, mining, or agricultural operations in which the person is involved can blow or fall out of such vehicle or that mud from its tires can fall upon the roadway."

Section 11-21

"It shall be unlawful for any person to dump, place, or deposit refuse on any public right-of-way or drainage canal."

Section 11-23

"It shall be unlawful for any person to operate any vehicle or cause to be operated any vehicle on highways or streets in the parish without suitable cover to prevent spilling of the contents on said highway or streets."

Section 11-29

"It shall be unlawful for any person, firm, or corporation to dump, place, or deposit building materials, or lie products, on the right-of-way of any public highway or public road in the parish. Specifically prohibited is the placing of renovation and/or new construction by-products. The owner of the property is responsible for the acts of his agent(s)."

Section 11-62

"No solid, industrial and/or sewerage waste or other waste shall be storage or disposed of in the following areas of sites:

- (1) Wetlands or waterways*
- (2) Any area within a one (1) mile radius of any house, mobile home, apartment, condominium, school, commercial structure or other structure used as a residence or business, unless the structure is located at and used on the site where the waste is stored or disposed of.*
- (3) Any area designated as an area of particular concern by the St. Bernard Parish Council, including historical landmarks, graveyards, or other areas of particular concern as defined by the Coastal Management Section of the Louisiana Department of Natural Resources or as defined in any local coastal zone management ordinances or regulations.*
- (4) Any area zoned other than I-2 pursuant to the Parish Zoning Ordinance"*

Section 11-63

"No person shall store, treat, transfer or dispose of solid, industrial, and/or sewerage waste in any facility or at any site not prohibited by section 11-62 hereof, or develop any waste site or facility without first obtaining a permit from the St. Bernard Parish Council."

Section 11-65:

"(a) No permit for storage, treatment, transferal or disposal of solid, industrial or sewerage waste or for the development of any waste site or facility shall be issued until a public hearing is held thereon. The purpose of the public hearing shall be to gather facts, opinions and other input regarding the permit application or renewal thereof.

(b) A public hearing shall be called by the St. Bernard Parish Council within sixty (60) days of submission of the permit application. Before the public hearing is held, the applicant shall comply with the following requirements:

(1) Advertising of the public hearing shall be made by publishing two (2) times in the official journal of St. Bernard Parish an advertisement, which advertisement shall include the following "Public Hearing For Waste Storage, Treatment, Transfer Or Disposal Facility". The advertisement shall also state the date, time and place of the hearing and the fact that any interested person may appear and be heard. The advertisement shall appear at intervals of at least one (1) week with the first advertisement appearing at thirty (30) days prior to the public hearing date. Size of advertisement shall be eight (8) inches by five (5) inches and shall be published at the owner's expense. Certified copy of the notice shall be submitted to the department of safety and permits.

(2) Notice of the public hearing shall be posted at least two (2) weeks prior to the hearing in a prominent place at the St. Bernard Parish Council Building, all parish libraries and any other location deemed pertinent by the St. Bernard Parish Council.

(3) Copies of the application and all attachments shall be made available to the public at the office of the St. Bernard Parish Council at least thirty (30) days prior to the hearing.

(c) Any interested person shall have the right to comment verbally or in writing at the public hearing. Written comments will be accepted and entered into the public hearing record for five (5) working days after the hearing."

Enforcement of these ordinances should provide a platform for the public offer concerns and input for disposal of materials that may adversely affect waterbodies.

3.2.2 Illicit Discharge and Illegal Connection Prevention

- The ordinance will classify illicit discharges as a civil violations and establish legal authority to carry out inspection, monitoring and enforcement procedures necessary to ensure compliance.
- The Parish will maintain vegetation on medians and roadside areas and dispose of collected debris and litter.
- Chemicals stored by the Parish of St. Bernard will be stored indoors in containers and in an environment recommended by the manufacturer.

3.2.3 Illicit Discharge and Illegal Connection Identification

- Known outfall locations will be visually inspected at least once every five years during periods of dry weather. Irregularities (foam, color, smell, etc.) will be documented and the Parish will make efforts to identify and eliminate the source of the irregularity. A list outlining illicit discharge inspection procedures is presented in Appendix D.
- Known Parish canals will undergo inspections once at least once every five years. If significant visual evidence of potential dry weather pollution is discovered during a dry weather survey of the sub-basin will be conducted using the illicit discharge inspection (dry weather survey) checklist (Appendix E) and the Parish will make efforts to identify and eliminate the pollutant source.
- The Parish will monitor the sewer collection system for leaks that may drain into the storm water system. Pipes found to be leaking will be repaired.

3.2.4 Response to Illicit Discharges and Illegal Connections

- Resident concerns and complaints regarding sewer overflows will be addressed with a site visit from Parish personnel. If known, the start time of the overflow, cause of overflow

estimated volume of discharge, repair methods, and time the completion of the repair will be documented.

- The Parish will respond to citizen concerns or complaints of accumulated trash and litter.
- The Parish will respond to hazardous spills following the guidelines outlined in Appendix F.

3.3 Necessary Documents/ Measurable Goals:

- Checklists and field report for visual inspection and windshield screening of canals and outfalls
- Documentation of residential complaints for sewer overflows and trash accumulation and actions taken by the Parish
- Documentation of hazardous spills and response taken by the Parish

Minimum Control Measure 4: Construction Site Stormwater Runoff Control

4.1 Introduction:

Erosion and sediment from construction site runoff can contribute to pollutants entering local waterbodies. Reducing the amount of disturbed soils on site and the volume of runoff flowing over disturbed areas of construction sites along with slowing runoff and removing sediment from the site all serve to achieve this goal.

The outlines presented below have been prepared to assist in notification procedures and training of St. Bernard Parish staff in the inspection of construction sites disturbing one (1) or more acres of land. This section provides background information on the regulatory aspects of controlling stormwater pollution from construction sites to reduce the risk of pollutants from construction sites contaminating local waterbodies.

4.2 Selected Activities and Best Management Practices:

4.2.1 Policies and Ordinances

- One important factor to reduce the amount of pollutants entering the stormwater drainage system from construction projects is the development of a good pollution prevention plan. During the development of this plan, the different alternatives available to mitigate erosion and sediments from entering the stormwater drainage system are assessed. St. Bernard Parish has developed this Guidance on Stormwater Pollution Prevention and Inspection at Construction Sites to address construction projects disturbing one (1) or more acres of land.
- If the Parish determines a stormwater permit is deemed necessary during the planning phase of new construction, a Notice of Intent and Notice of Termination for developments five (5) acres or greater, and a Notice of Termination for developments one (1) acre or greater, are submitted to the Louisiana Department of Environmental Quality. A copy is sent to the Office of Safety and Permits prior to any clearing and grubbing activities. A Stormwater Pollution Prevention Plan (SWPPP) shall be developed and implemented by the contractor to maintain compliance during the construction phase of the project.
- A Building Permit is required for developers/constructors prior to commencing construction activities. St. Bernard Parish utilizes building permits as the primary source of information to the applicant in determining the required permits (e.g., stormwater permit).

4.2.2 Permitting Procedures

- Submittals from the contractor, owner or owner's representative shall include the following:
 - Environmental & Development Control Building Permit Review Form (Appendix G) (Submitted to Department of Community Development)
 - Notice of Intent and Notice of Termination forms (Appendix H) (Submitted to Louisiana Department of Environmental Quality)
 - St. Bernard Parish Weekly Inspection Checklist Form (Appendix I) (Submitted to (Submitted to Department of Community Development)
 - Copy of the EPA booklet- "Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites" (Appendix J) for the private development of one (1) acre or greater
 - Drawings for typical stormwater pollution prevention structural controls (Appendix K). (Submitted to Department of Community Development)

4.2.3 Best Management Practices for Construction Sites

The Parish will consider the following procedures acceptable as pollutant mitigation efforts for construction sites:

- Stabilization practices including temporary and permanent stabilization (e.g. seeding, shielding soil surface, etc.)
- Structural controls (e.g. silt fences, earthen dikes, etc.)
- Pesticide, herbicide, construction chemical, hazardous waste and construction waste management (e.g. proper storage, handling and disposal)
- Petroleum products management (e.g. monitoring on-site vehicles for leaks; lining petroleum storage area with impervious plastic sheeting, etc.)
- Solid waste management (e.g. maintaining dumpster area, capping dumpsters, etc.)
- Truck Washout (e.g. prohibiting trucks from discharging surplus concrete on site)
- Off-site vehicle traffic (e.g. stabilization of construction entrances, covering of dump trucks hauling material to and from site, etc.)

4.2.4 Inspection and Enforcement Procedures

- St Bernard Parish will complete a Weekly Inspection Checklist (Appendix I) for developments greater than one (1) acre.
- During initial construction site inspection, Parish personnel will meet with the individual in charge of the site who will identify the person(s) responsible for the implementation and maintenance of construction site best management practices. Additionally, Parish

personnel and the person(s) in charge of the stormwater pollution prevention plan confirm the following information:

- Total area to be disturbed by the construction project;
- Construction timing and phasing;
- Sources of potential stormwater contamination (e.g., storage areas);
- Best Management Practices used at the site; and
- Outfall location and receiving waters

A site tour and inspection will then be conducted by Parish personnel. Deficiencies which could increase the risk of pollutants entering the stormwater system will be identified, photographed and included in the checklist. Actions taken to rectify deficiencies will be documented.

- The Parish will periodically conducts training for their personnel that perform construction site inspections. The training program addresses pollution control laws and regulations, construction site runoff pollution prevention practices and development of stormwater pollution prevention plans.
- The Parish will establish an ordinance to require erosion and sediment controls. In the interim, St. Bernard Parish will accept Stormwater Pollution Prevention Programs developed for the Louisiana Department of Environmental Quality as sufficient control measures.

4.3 Necessary Documents/ Measurable Goals:

- Documentation of Guidance on Stormwater Pollution Prevention and Inspection developed by the Parish and by contractors
- Notice of Intent and Notice of Termination issued to the Louisiana Department of Environmental Quality. Stormwater Pollution Prevention Plan (SWPPP) provided by the contractor
- Record of building permit applications including submittals from the contractor outlined in Section 4.2.2 and best management practices outlined in Section 4.2.3
- Weekly inspection checklist for developments greater than one (1) acre
- Findings and photographs of initial construction site inspection
- Attendance, dates and materials distributed for personnel training
- Documentation of significant changes of on-site activity and significant stormwater pollution events

Minimum Control Measure 5: Post Construction Stormwater Management in New Development and Redevelopment

5.1 Introduction:

Limiting the permissible post construction runoff in new developments reduces the risk of pollutants reaching waterbodies. If unchecked, the increased impervious surface area associated with new developments may increase stormwater volume and degrade water quality. Innovative site designs that reduce imperviousness help achieve the goals of reducing flows and improving water quality.

St. Bernard Parish is committed to these goals. The Parish currently enforces existing ordinances and will adopt new ordinances to decrease adverse effects receiving stormwater bodies are subject to from new development. The Parish will also make outreach efforts to educate public and private entities on best management practices for new developments.

5.2 Selected Activities and Best Management Practices:

5.2.1 Policies and Ordinances

The St. Bernard Parish (Parish) Code of Ordinances and Zoning Ordinance outline measures to reduce the volume of runoff and pollutants introduced into receiving waters from new developments including requirements for landscaped buffer yards, utility and waste disposal and aggregate surface course. The Parish will continue to enforce the following ordinances:

Section 5-18

“(a) New or replacement water supply systems and/or sanitary sewage systems must be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the systems into flood waters.

(b) On-site waste disposal systems must be located so as to avoid impairment of them or contamination from them during flooding. Application for building permits for residential commercial and industrial structures which will not be served by existing community sewage lines and treatment systems must be accompanied by drawings or designs of private sewage disposal systems. The department of safety and permits by inspection will certify compliance with subsections (a) and (b).”

Section 22-7-1.1:

“a. Any lot developed in a Business, Industrial, Design Development District zones shall provide landscaped areas on the portions of the site that are not covered by an impervious surface.”

Section 22-7-1.2:

"Landscape buffers of 100 feet between commercial/industrial uses and residential uses and 50 feet between multi-family and single family residential uses shall be required."

Section 22-7-3.3:

"A parking area for schools and outdoor recreational facilities owned and operated by a school and which is used no more than the total number of days that the operating school is in session, provided all of the following conditions are met:

- 1. The aggregate surface course shall meet the requirements of Section 22-5-2. Aggregate Surface Course of the latest addition Louisiana Standard Specifications for Roads and Bridges...*
- 3. The owner shall take the necessary measures needed to suppress the creation of dust which may be caused by vehicular traffic and/or wind...*
- 7. Rainfall run-off from the parking area shall not be directed onto public right-of-way unless drainage calculations showing no adverse impact to existing drainage facilities and streets are submitted to the department of public works. The owner shall obtain a letter of no objection from the department of public works for the proposed drainage layout prior to construction of the parking area."*

Section 22-7-3.4

"c. Landscaped islands shall be provided at the end of each parking aisle. In large parking lots, a landscaped island shall be provided between every third row of parking space. Landscaped islands shall be a minimum of six feet wide unless modified by the Department of Community Development."

5.2.2 Green Infrastructure

Impervious parking lots are a primary contributor to point source pollution in public waterways. According to the USGS, impervious surfaces generate two to six more times the volume of runoff than natural surfaces. Additionally, conventional pipe collection systems distribute runoff to the receiving water body much more expeditiously than natural ecosystems. This can result in flooding or LPDES Permit excursions.

- The Parish will adopt an ordinance allowing new developments to construct green infrastructure. Examples of green infrastructure may include green parking, porous pavement, downspout disconnection, rain gardens, bio swales, etc. The inclusion of green infrastructure as acceptable options for new developments should serve to reduce the volume of inflow to the receiving waterbodies during periods of wet weather, improve the water quality of runoff and improve the aesthetics of new developments.

5.2.3 Post-Construction Runoff

The Parish requires that the post development runoff equals or is less than the pre development runoff for new developments. The property owner or owner's representative are required to submit calculations to the Public Works Department demonstrating that the new development will be in compliance. Detention of stormwater runoff is allowed through either detention storage or inlet restriction. This action serves to reduce the volume of runoff infiltration into the collection system during periods of wet weather and improves the aesthetics of new developments by encouraging the use of vegetated detention ponds.

5.2.4 Public Outreach

- The Parish Code of Ordinances and Zoning Ordinances are and will continue to be accessible at the Parish website.
- Parish planners will be available during office hours to answer owner or owner's representative questions about site development.
- Proposed additions and revisions pertaining to the Parish Stormwater Pollution Prevention Plan will be discussed at a public hearing. Public/stakeholder input will be reviewed to assess potential revisions to the 'new development' sections of the Code of Ordinances and Zoning Ordinance.
- Records of construction plans and specifications for new developments will be kept within the Department of Public Works and/or the Office of Planning and Zoning and be made available to the public.

5.3 Necessary Documents/Measurable Goals:

- Records of construction plans for new developments
- Revised Code of Ordinances and Zoning Ordinance
- Drainage calculations, construction plans and specifications from the owner or owner's representative of new development
- Records of enforcement actions that occur as a result of new ordinances
- Records of new developments that use green infrastructure and documentation of type of green infrastructure constructed
- Documentation of acreage of land conserved as buffers and list of developments constructed after execution of updated ordinance.

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations

6.1 Introduction

The pollution prevention and good housekeeping minimum control measure outlines activities that ensure municipal facilities and operations are managed in ways that will minimize contamination of stormwater discharges emanating from these facilities. This measure requires the Parish to examine its own actions to help ensure a reduction in the amount and type of pollution that collects on roadways, parking lots, open spaces, storage vehicles and vehicle maintenance areas, Parish owned facilities and other Parish owned or leased operations that discharge into local waterways. St. Bernard Parish will implement the methods outlined below to meet the goal of reducing the risk of pollutants contamination waterbodies.

6.1 Selected Activities and Best Management Practices:

6.2.1

St Bernard Parish will maintain a parish maintenance and operations program to prevent the reduce pollutant runoff from the parishes operation. The responsible parties will be the staff under the Roads, Drainage, and Public Works Department. The target pollutants will be solids, floatables, oil and grease. St Bernard parish will conduct annual training as well as keep staff informed by sending staff to MS4 Annual Conference.

6.2.2

St Bernard Parish will also conduct automotive maintenance. All St Bernard Parish vehicles belonging to municipal personal will be required to have a 4000-5000-mile interval vehicle maintenance performed. The target audience is municipal personnel. The targeted pollutants will be oil and grease. The administrative assistants will keep records and maintain inventory of parish owned vehicles and maintenance records.

6.3 Necessary Documents/ Measurable Goals:

- Maintain inventory of parish owned vehicles and maintenance records
- Dates and attendance of hazardous waste training; materials distributed during hazardous waste training
- Engineering staff will attend MS4 Annual Conference.