

Stormwater Management Program – Nueces County Unincorporated Areas Nueces County, Texas

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Prepared for Nueces County

Hanson Professional Services Inc. Project No. 16L0442G, Task 1000

HANSON

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1. Introduction

1.1. *Regulatory Background*

The Federal Clean Water Act (also known as the Federal Water Pollution Control Act) requires that all municipal, industrial, and commercial facilities that discharge wastewater or stormwater directly from a point source (a discrete conveyance such as a pipe, ditch or channel) or certain non-point sources into a water of the United States (such as a lake, river, or ocean) must obtain a National Pollutant Discharge Elimination System (NPDES) Permit. On September 14, 1998, the State of Texas assumed the authority to administer the NPDES program in Texas and the Texas Commission on Environmental Quality (TCEQ) currently issues general or individual permits under the Texas Pollutant Discharge Elimination System (TPDES). This Nueces County Stormwater Management Program (SWMP) has been prepared to meet the requirements of TPDES Permit Number TXR040000 – General Permit to Discharge Under the TPDES under provisions of 402 of the Clean Water Act and Chapter 26 of the Texas Water Code, for Small Municipal Separate Storm Sewer Systems (MS4) (General Permit), issued on January 24, 2019. TPDES Permit Number TXR040000 is available on TCEQ's website at https://www.tceq.texas.gov/downloads/permitting/stormwater/general/multi-sector/txr040000-2019-issued-permit.pdf. This version of the SWMP is intended to supersede and replace the SWMP developed under the TPDES General Permit Number TXR040000 issued on December 13, 2013. A list of updates to the SWMP is provided in Attachment 1.

1.2. *Applicability of TPDES to Nueces County*

The General Permit authorizes stormwater and certain non-stormwater discharges to surface water in the state from small MS4s that are located within an urbanized area (UA), as determined by the 2000 or 2010 Decennial Census by the United States Bureau of Census. The majority of the UAs in Nueces County are within incorporated areas of the City of Corpus Christi and are covered under the State and Federal stormwater programs by the City's MS4 program. However, several of the UAs in Nueces County are located in unincorporated areas and are covered by Nueces County's MS4 program. Nueces County operates the stormwater drainage system in these unincorporated areas under the General Permit which was initially issued on August 13, 2007 and has been re-issued on December 13, 2013 and January 24, 2019. Nueces County submitted a Notice of Intent (NOI) to discharge under the current General Permit (issued on January 24, 2019) in May 2019. A copy of the submitted NOI is provided in Attachment 2. Nueces County's designated permit number is TXR040054. There are eight unincorporated areas under Nueces County's MS4 permit, with an estimated population of 1,456 people served by the MS4. The eight areas are shown on the 2010 U.S. Census Urbanized Areas Map in Figure 1 – Map of MS4 Areas and in Figure 2 – Detail Maps of MS4 Areas.

1.3. *Purpose of the Document*

This document has been prepared to meet the requirement to develop and submit a Stormwater Management Program (SWMP) in accordance with Part III of the General Permit and is an update to the SWMP previously submitted by Nueces County in May 2014. The Nueces County Unincorporated Areas SWMP is intended to inform Nueces County personnel, consultants, and the general public of Best Management Practices (BMPs) that can be utilized to reduce the amount of pollution entering stormwater runoff in the MS4.

1.4. *Nueces County Enforcement Authority*

Nueces County, as with other counties in Texas, is a subdivision of the state created under the Texas Constitution or by act of the Texas Legislature, but has no specific authority granted by virtue of its existence. Through various acts of the Texas Legislature, counties have been given some powers to regulate the subdivision of land through the platting process. They also have been given some authority to own and operate some public infrastructure, including water, wastewater, drainage, and waste disposal facilities. Counties may also institute civil actions and prosecute criminal actions under the Texas Water Code and the Texas Health and Safety Code. Nueces County has no independent regulatory authority over stormwater outside of these programs. There are two Nueces County Deputy Constables that function as Environmental Investigators for the County. The Environmental Investigators enforce violations of the Texas Health and Safety Code, Texas Water Code, Texas Penal Code, and Texas Transportation Code. Nueces County will be the sole MS4 operator responsible for implementing the Nueces County Unincorporated Areas SWMP.

1.5. *SWMP Compliance with Total Maximum Daily Load Requirements*

Discharges of a pollutant of concern to an impaired waterbody for which there is a TCEQ and Environmental Protection Agency (EPA) approved Total Maximum Daily Load (TMDL) are not eligible for coverage under the General Permit unless discharges are consistent with the approved TMDL. A waterbody is impaired for purposes of the General Permit if it has been identified in the most recent TCEQ and EPA approved Clean Water Act (CWA) §303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d), which lists Category 4 and 5 waterbodies as not meeting Texas Surface Water Quality Standards. A TMDL is the total amount of a particular substance that a waterbody can assimilate and still meet the Texas Surface Water Quality Standards codified in Title 30, Chapter 307 of the Texas Administrative Code (TAC). A TMDL provides a measureable way to target efforts to protect and improve the quality of streams, lakes, and bays.

The eight MS4 Areas covered under the Nueces County SWMP are non-contiguous and stormwater runoff flows into a total of six different water ways. The impairment and TMDL-IP status of each waterbody will be monitored annually to determine if modifications to the SWMP are necessary. The impairment and TMDL status of each waterbody receiving runoff from the MS4 are discussed below.

Area 1 consists primarily of residential neighborhoods. Stormwater runoff from Area 1 generally flows south to north over streets and through constructed drainage features, natural drainage ways, and wetlands, eventually flowing into the Nueces River Below Lake Corpus Christi (TCEQ Segment 2102), which is not impaired based on the 2022 Texas Integrated Report. During the permit term from 2013 to 2018, stormwater flows were regularly observed to determine where stormwater runoff occurs in the MS4. Stormwater appeared to move through Area 1 as sheet flow and infiltrate permeable surfaces. As the stage of the Nueces River rises, water from the river flows into areas that were previously identified as significant drainage features. These features are likely part of the floodway of the Nueces River and the MS4 Map for Area 1 has been updated to reflect this information.

Area 2 consists of the Nueces County Hazel Bazemore Park and the River Hills Country Club. Stormwater runoff from Hazel Bazemore Park generally infiltrates permeable surfaces, drains to a wetland within the park, or flows south to north through natural drainage ways and constructed drainage features into the Nueces River Below Lake Corpus Christi (TCEQ Segment 2102), which is not impaired based on the 2022 Texas Integrated Report. Drainage from the River Hills Country Club generally flows southeast to northwest, with most drainage infiltrating permeable surfaces or being captured in retention ponds present in the northwest portion of the site. Drainage not retained on site appears to flow into a shrubland area and dissipate. Prior to 2022, Segment 2102 was impaired for total dissolved solids (TDS). No TMDL was developed for the water body. Nueces County made a determination that stormwater runoff from Area 2 did not contribute to TDS contamination of Segment 2102. Actions taken to make this determination include conducting visual inspections of the MS4 and stormwater structural controls within the MS4, looking for flow during dry weather, observing construction sites within the MS4, sampling a significant drainage feature within MS4 Area 2, and conducting research on past TDS studies done in the vicinity of Area 2. Information reviewed and obtained in 2017 indicated that elevated TDS concentrations are a natural characteristic of Segment 2102.

Areas 3 and 4 consist primarily of residential neighborhoods that are located immediately adjacent to the Nueces River. Stormwater runoff from Areas 3 and 4 generally infiltrates permeable surfaces or flows into the Nueces River Tidal (TCEQ Segment 2101), which is not impaired and has no TMDL.

Area 5 consists of agricultural land and a portion of the Lyondell Basell Corpus Christi Complex, also known as Equistar Chemicals. Stormwater runoff from Area 5 generally infiltrates permeable surfaces or flows north to south and enters drainage ditches present along Violet Road and to the south of Equistar Chemicals. Stormwater discharges from Equistar Chemicals are authorized with Permit Number TXR05L891 under the TCEQ Multi-Sector General Permit (MSGP). Eventually stormwater runoff from Area 5 flows into Oso Creek (TCEQ Segment 2485A). Oso Creek is impaired for bacteria and has a TMDL which was adopted by TCEQ on July 31, 2019 and approved by EPA on October 25, 2019. The TMDL source analysis lists several regulated and non-regulated sources of bacteria, including domestic and industrial wastewater treatment facilities, facilities discharging under various TPDES general wastewater and stormwater permits, sanitary sewer overflows, illicit discharges, on-site

sewage facilities, wildlife and unmanaged animal contributions, and unregulated agricultural activities and domesticated animals. Available historical data discussed in the TMDL indicate that elevated bacteria levels occur in Oso Creek at all flow levels, with higher flows displaying the most elevated bacteria loading. Stormwater discharged from MS4s within the Oso Creek watershed, including the Nueces County Unincorporated Areas MS4, have been accounted for in the wasteload allocation as point sources. The TMDL indicates that an adaptive management approach will be used to address stormwater discharges in the watershed, with structural and non-structural control performance being evaluated and BMP adjustments being made as necessary to protect water quality. Stormwater runoff from Area 5 does not discharge directly into Oso Creek; however, certain sources within the MS4 may contribute to bacterial loading in stormwater. These sources, which have been accounted for in the TMDL, include illicit discharges, unauthorized dumping, and improperly operating on-site sewage facilities (OSSFs). This SWMP incorporates several BMPs designed to address bacteria impairment, including educational brochures, employee and contractor education on Illicit Discharge Detection and Elimination (IDDE), development of an IDDE Manual, and inspections to detect illicit discharges and unauthorized dumping. In addition, an order titled “Order Adopting Rules of Nueces County, Texas, For On-Site Sewage Facilities” has been prepared and is managed by the City of Corpus Christi/Nueces County Health District (Health District).

Areas 6 and 7 consist mostly of industrial properties present along the south side of the Corpus Christi Ship Channel. Stormwater runoff from Areas 6 and 7 generally flows south to north in constructed drainage features owned by the City of Corpus Christi or private industrial companies and eventually flows into the Corpus Christi Inner Harbor (TCEQ Segment 2484), which is impaired for copper in water and does not have a TMDL. Nueces County made a determination that stormwater runoff from Areas 6 and 7 did not contribute to copper contamination of Segment 2484. Actions taken to make this determination include conducting visual inspections of the MS4 and stormwater structural controls within the MS4 and conducting research on potential sources of copper in the vicinity of Areas 6 and 7. Potential sources of copper that may contribute to land surface runoff include brake pads, pesticides, herbicides, fungicides, copper roofing and siding, eroded soils, shipyard activities, and industrial facility air emissions. Inspections and research show that there are no significant sources of copper from Areas 6 and 7 other than permitted sources regulated under the jurisdiction of TCEQ or EPA.

Area 8 consists of industrial properties present on the north side of the Corpus Christi Ship Channel. Stormwater runoff from the west side of Area 8 generally flows south into the Corpus Christi Inner Harbor (TCEQ Segment 2484) and eventually reaches Corpus Christi Bay (TCEQ Segment 2481). Segment 2484 is impaired for copper in water and does not have a TMDL. Segment 2481 is not impaired and does not have a TMDL. Stormwater from the east side of Area 8 generally flows north into Nueces Bay/Nueces Bay (Oyster Waters) (TCEQ Segment 2482). Nueces Bay is impaired for copper in water and does not have a TMDL. Nueces Bay (Oyster Waters) is impaired for zinc in tissue and has a TMDL that was adopted by TCEQ on November 1, 2006.

Nueces County made a determination that stormwater runoff from Area 8 does not contribute to copper contamination of Segment 2484. Actions taken to make this determination include conducting visual inspections of the MS4 and stormwater structural controls within the MS4 and conducting research on potential sources of copper in the vicinity of Area 8. Potential sources of copper that may contribute to land surface runoff include brake pads, pesticides, herbicides, fungicides, copper roofing and siding, eroded soils, shipyard activities, and industrial facility air emissions. Inspections and research show that there are no significant sources of copper from Area 8 under other than permitted sources regulated under the jurisdiction of TCEQ or EPA.

Nueces County made a determination that stormwater runoff from Area 8 does not contribute to zinc in tissue contamination in Segment 2482. Actions taken to make this determination include conducting visual inspections of the MS4 and stormwater structural controls within the MS4 and conducting research on potential sources of zinc in the vicinity of Area 8. Potential sources of zinc that may contribute to land surface runoff include materials made of galvanized metal, the wearing of rubber tires and brake pads, eroded soils, industrial facility air emissions, cooling water system additives, batteries, motor oil, hydraulic fluid, fertilizer, pesticide, fungicide, sunscreen, paints, and fireworks. Inspections and research show that in addition to permitted sources regulated under the jurisdiction of TCEQ or EPA, there are potential sources of zinc from Area 8 including illegally dumped materials such as motor oil, batteries, or zinc preserved wood. The TMDL for segment 2482 states that elevated levels of zinc in Nueces Bay originated from historical industrial activities, particularly from operation of a zinc smelting facility that is believed to be the cause of the zinc that remains today. This facility and other metallurgical processing facilities that previously discharged to Nueces Bay and the Corpus Christi Inner Harbor have not operated for many years. As a result, levels of zinc in oyster tissue are able to attenuate with time and are expected to eventually fall below the TCEQ criterion established to support the designated oyster water use of Nueces Bay. The TMDL does not require a reduction in total load of zinc to surface waters. Although the TMDL does not require a reduction in total load of zinc, BMPs intended to address unauthorized dumping under the Illicit Discharge and Detection Elimination (IDDE) Minimum Control Measure (MCM) have been implemented and are discussed in Section 3.

1.6. *Sanitary Sewer Systems*

There are no sanitary sewer systems within the Nueces County Unincorporated Areas MS4. Sanitary Sewer Systems nearest the Nueces County Unincorporated Areas MS4 are owned and operated by the City of Corpus Christi. BMPs to address overflows, lift station inadequacies, and requirements to reduce fats, oils, and grease are considered under the City of Corpus Christi Municipal Separate Storm Sewer System (TPDES Permit No. WQ0004200000)

1.7. *On-Site Sewage Facilities*

Nueces County has been authorized by TCEQ to serve as an Authorized Agent for On-Site Sewage Facilities (OSSFs). An order titled “Order Adopting Rules of Nueces County, Texas, For On-Site

Sewage Facilities" has been prepared and can be viewed online at https://www6.tceq.texas.gov/oars/index.cfm?fuseaction=search.county by searching for Nueces County and selecting Nueces County Authorized Agent. Matters relating to OSSFs are handled by the City of Corpus Christi/Nueces County Health District (Health District). The Health District oversees installation of OSSFs and receives reports of leaking systems. Reports of leaking OSSFs are investigated by the Nueces County Environmental Investigators, who enforce Title 5, Chapter 366 of the Texas Health and Safety Code and Title 30, Chapter 285 of the Texas Administrative Code.

1.8. *Animal Sources*

Animal sources, such as zoos, pet waste, and horse stables are addressed during SWMP-specific inspections of the MS4 areas and during daily drive-through inspections conducted by the Nueces County Environmental Enforcement Officers.

1.9. *Endangered Species*

Discharges that would adversely affect a listed endangered or threatened species or its critical habitat are not authorized by the General Permit. Federal requirements related to endangered species apply to all TPDES permitted discharges, and site-specific controls may be required to ensure that protection of endangered or threatened species is achieved. TCEQ provided information pertaining to endangered species which are found waterbodies which the MS4 may discharge into. Piping Plover (*Charadrius melodus*) was identified as being found near Corpus Christi Bay (Segments 2481). Stormwater discharges from the MS4 to this segment are not anticipated to impact water quality or habitat associated with Piping Plover. If discharges from the MS4 are suspected or determined to be causing an adverse impact on water quality or habitat, Nueces County will contact TCEQ immediately to determine corrective action and potential modification to the SWMP.

1.10. *General Information*

Nueces County and Hanson Professional Services Inc. (Hanson) have worked together to prepare this SWMP and have evaluated each Minimum Control Measure (MCM) and determined appropriate BMPs to implement that will reduce the amount of pollutants entering stormwater runoff in the MS4. For monitoring purposes, Nueces County will utilize a calendar year system, beginning with 2019 as Permit Year 1, based on the January 24, 2019 issued date of the General Permit. BMP selection was based on the knowledge that the MS4 Areas are noncontiguous and on reaching the intended target audience of Nueces County personnel and contractors who may perform work in the MS4 Areas and citizens who live or work in the MS4 Areas. The table below summarizes the BMPs selected for each MCM. BMPs are discussed in detail in the following sections.

Table 1: Summary of Selected BMPs

Minimum Control Measure	Selected BMP	Implementation Schedule
MCM 1 – Public Education, Outreach, and Involvement	Provide SWMP and Annual MS4 Reports to Public	The SWMP has been posted on the Nueces County Department of Public Works website. Annual MS4 Reports will be posted no later than 30 days after the due date of the report to TCEQ, which is March 31st.
	Educational Brochures	Brochures on various stormwater topics have previously been prepared and are distributed by Nueces County Environmental Investigators throughout the year.
	Follow Public Notice Requirements of General Permit	Nueces County will publish notice of the TCEQ's preliminary decision on the NOI and SWMP in a newspaper during the required timeframe detailed in the publishing instructions from the TCEQ Chief Clerk.
	Public Education and Outreach Activities	Events will be selected and participated in throughout the year will be advertised to the general public on the Nueces County website or via temporary signs posted near event locations prior to events.
MCM 2 – Illicit Discharge Detection and Elimination	MS4 Mapping	MS4 Area Maps have been prepared and will be updated/verified to be up to date by December of each year.
	Employee Education on Illicit Discharge and Detection	A training presentation has been prepared and will be provided annually to personnel who may perform work in the MS4 by December of each year.
	Signs to Discourage Unauthorized Dumping	The location and number of signs currently posted in the MS4 has been documented and will be verified annually by December of each year.
	Develop a Standard Operating Procedure (SOP) for Responding, Investigating, and Removing Illicit Discharges	An Illicit Discharge Detection and Elimination (IDDE) Manual has been prepared and will be verified to be up to date by December of each year.
	Develop a Written Procedure Describing the Basis for Conducting Inspections in Response to Complaints and Conducting Follow-up Inspections	The IDDE Manual was updated to address this BMP in June 2020.
	Conduct Inspections of MS4 to Detect Illicit Discharges and Connections and Unauthorized Dumping	Inspections focused on the MS4 Areas will be conducted once per quarter throughout each year.

Minimum Control Measure	Selected BMP	Implementation Schedule
MCM 3 – Construction Site Stormwater Runoff Control	Employee Education on Stormwater Pollution Prevention Plan Requirements	Information on SWPPP applicability has been prepared and provided to all personnel currently reviewing SWPPP Information.
	Ensure a Stormwater Pollution Prevention Plan is Developed for Construction Projects in the MS4	Review of SWPPP status for projects will occur throughout the year and will be documented by December of each year.
	Review Project Documents for Construction Activities Located in MS4	Review of project documents submitted to Nueces County will occur throughout the year and will be documented by December of each year.
	Address Public Inquiries, Concerns, and Information Reporting on Construction Sites	Reports from the general public on stormwater quality at construction sites in the MS4 will be addressed and documented as they are received and documented by December of each year.
	Conduct Periodic Inspections on Selected Construction Sites within the MS4	Construction site inspections will be conducted as projects occur and will be documented by December of each year.
MCM 4 – Post Construction Stormwater Management in New Development and Redevelopment	Develop, Implement, and Enforce a Program to Control Stormwater Discharges from New Development and Redeveloped Sites	Evaluation of new development and redevelopment construction sites will occur throughout the year and will be documented by December of each year.
	Ensure Maintenance is Performed on Post-Construction Stormwater Control Measures	For Nueces County owned and operated stormwater control measures, maintenance will be performed for stormwater control measures by December of each year. For non-Nueces County owned and operated stormwater control measures, maintenance plans will be logged by December of each year.
MCM 5 – Pollution Prevention and Good Housekeeping for Municipal Operations	Develop and Maintain an Inventory of Facilities and Stormwater Controls within the MS4	An inventory of stormwater structural controls has been prepared and will be updated by December of each year and when new stormwater structural controls are added.
	Prepare Stormwater Structural Control Inspection Procedures	Stormwater Structural Control Procedures have been prepared and will be verified to be current by December of each year.
	Conduct Inspections of Pollution Prevention Measures	Inspections of stormwater structural controls will be conducted on an annual basis by December of each year.
	Perform Maintenance on Structural Controls	Maintenance of stormwater structural controls will be performed by December of each year.

Minimum Control Measure	Selected BMP	Implementation Schedule
MCM 5 – Pollution Prevention and Good Housekeeping for Municipal Operations	Conduct Training for Nueces County Personnel	Nueces County personnel who may perform work within the MS4 will receive training on an annual basis by December of each year.
	Use Proper Waste Disposal Procedures	The solid waste contractor will be verified annually by December of each year.
	Require Contractors to Comply with Stormwater Control Measures, Good Housekeeping Practices, and Facility-Specific Stormwater Management Procedures	Records of contractors receiving the information sheet will be documented by December of each year.
	Develop Contractor Oversight Procedures	Contractor Oversight Procedures for Maintenance Activities in the Nueces County Unincorporated Areas MS4 have been developed and will be verified to be current by December of each year.
	Evaluate Nueces County Operation and Maintenance Activities in MS4	Nueces County's operation and maintenance activities have been evaluated and will be verified to be current by December of each year.
	Perform Water Body Impairment Status Check	Impairment status and TMDL status will be documented by December of each year.

2. MCM 1 – Public Education, Outreach, and Involvement

2.1. *TXR040000 Permit Requirements*

Part III.B.1. Public Education, Outreach, and Involvement

(a) Public Education and Outreach

(1) All permittees shall develop, implement, and maintain a comprehensive stormwater education and outreach program to educate public employees, businesses, and the general public of hazards associated with the illegal discharges and improper disposal of waste and about the impact that stormwater discharges can have on local waterways, as well as the steps that the public can take to reduce pollutants in stormwater.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. The program must, at a minimum:

a. Define the goals and objectives of the program based on high priority community-wide issues (for example, reduction of nitrogen in discharges from the small MS4, promoting previous techniques used in the small MS4, or improving the quality of discharges to the Edwards Aquifer);
b. Identify the target audience(s);
c. Develop or utilize appropriate educational materials, such as printed materials, billboard and mass transit advertisements, signage at select locations, radio advertisements, television advertisements, and websites;
d. Determine cost effective and practical methods and procedures for distribution of materials.

(2) Throughout the permit term, all permittees shall make the educational materials available to convey the program's message to the target audience(s) at least annually.

(3) If the permittee has a public website, the permittee shall post its SWMP and the annual reports required under Part IV.B.2. or a summary of the annual report on the permittee's website. The SWMP must be posted no later than 30 days after the approval date, and the annual report no later than 30 days after the due date.

(4) All permittees shall annually review and update the SWMP and MCM implementation procedures required by Part III.A.2., as necessary. Any changes must be reflected in the annual report. Such written procedures must be maintained, either on site or in the SWMP and made available for inspection by the TCEQ.

(5) MS4 operators may partner with other MS4 operators to maximize the program and cost effectiveness of the required outreach.

(b) Public Involvement

All permittees shall involve the public, and, at minimum, comply with any state and local public notice requirements in the planning and implementation activities related to developing and implementing the SWMP, except that correctional facilities are not required to implement this portion of the MCM.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. At a minimum, all permittees shall:

(1) Consider using public input (for example, the opportunity for public comment, or public meetings) in the implementation of the program;

(2) Create opportunities for citizens to participate in the implementation of control measures, such as stream clean-ups, storm drain stenciling, volunteer monitoring, volunteer "Adopt-A-Highway" programs, and educational activities;

(3) Ensure the public can easily find information about the SWMP.

2.2. *BMP Selection and Implementation*

BMPs selected to educate personnel, businesses, and the general public focus on increasing the availability of stormwater information by presenting it in several formats. Information presented under this MCM is intended to educate Nueces County personnel and residents on the impacts that pollutants in stormwater runoff can have on local water ways.

2.3. *Selected BMPs*

2.3.1. BMP – Provide SWMP and Annual MS4 Reports to the Public

The SWMP and Annual MS4 Reports will be posted on the Nueces County Department of Public Works website: www.nuecesco.com/county-services/public-works/environmental-enforcement.

2.3.1.1. Measurable Goals

The goal for this BMP will be considered to be met once the posting of the SWMP and each Annual MS4 Report has been verified on the form provided in Attachment 3.

2.3.1.2. Implementation Schedule and Distribution Method

The SWMP has been posted on the Nueces County Department of Public Works website. Annual MS4 Reports will be posted no later than 30 days after the due date of the report to TCEQ, which is March 31st.

2.3.1.3. Target Audience

The SWMP and Annual MS4 Reports will be provided on the Nueces County website to reach Nueces County citizens, businesses, and personnel.

2.3.2. BMP – Educational Brochures

Nueces County has prepared several brochures on various stormwater topics, including stormwater basics, excess nutrients in stormwater, sediment in stormwater, debris in stormwater, and household hazardous waste in stormwater. The brochures describe a stormwater concern and what the public can do to help address the concern.

2.3.2.1. Measurable Goals

The goal for this BMP will be considered to be met if at least 300 educational brochures are distributed annually. All educational brochures prepared and a log of the number of brochures distributed annually are included in Attachment 4.

2.3.2.2. Implementation Schedule and Distribution Method

Brochures on various stormwater topics have previously been prepared and are distributed by Nueces County Environmental Investigators throughout the year. The brochures for all stormwater topics are available for pick up in the Nueces County Courthouse and brochures on stormwater basics or pertinent topics have also been posted on the Nueces County website.

2.3.2.3. Target Audience

The educational brochures are intended to inform Nueces County residents, businesses, and personnel of stormwater concerns.

2.3.3. BMP – Follow Public Notice Requirements of General Permit

Nueces County will publish notice of TCEQ's preliminary decision regarding the SWMP in accordance with the General Permit.

2.3.3.1. Measurable Goals

The goal for this BMP will be considered to be met if the public notice was published one time in the Caller Times. The newspaper notice, publisher's affidavit, and any records of public input received will be included as Attachment 5 of the SWMP.

2.3.3.2. Implementation Schedule and Distribution Method

Nueces County will publish notice of the TCEQ's preliminary decision on the NOI and SWMP in a newspaper during the required timeframe detailed in publishing instructions from the TCEQ Chief Clerk.

2.3.3.3. Target Audience

Publishing of the TCEQ's preliminary decision is intended to allow the general public to view the SWMP and to provide an opportunity to submit input and have potential questions answered.

2.3.4. BMP – Public Education and Outreach Activities

Nueces County will identify suitable public education and volunteer opportunities that promote improving water quality. Public education opportunities may include having an Environmental Investigator do a presentation at a local school or other event. Volunteer opportunities may include activities such as park and river cleanups. In addition, Nueces County may provide educational materials to be distributed at community functions such as Earth Day/Bay Day events.

2.3.4.1. Measurable Goals

The goal for this BMP will be considered to be met if one cleanup event and one educational event are attended by Nueces County representatives annually. A log of public education and outreach activities completed is provided as Attachment 6.

2.3.4.2. Implementation Schedule and Distribution Method

Events will be selected and participated in throughout the year and will be advertised to the general public on the Nueces County website or via temporary signs posted near event locations prior to events.

2.3.4.3. Target Audience

Providing public education and volunteer opportunities and distributing educational materials is intended to allow the general public to learn about water quality and become involved with improving the water quality of local water ways.

3. MCM 2 – Illicit Discharge Detection and Elimination (IDDE)

3.1. *TXR040000 Permit Requirements*

(a) Program Development

(1) All permittees shall develop, implement, and enforce a program to detect, investigate, and eliminate illicit discharges into the small MS4. The program must include a plan to detect and address non-stormwater discharges, including illegal dumping to the MS4 system.

Existing permittees must assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. (See also Part III.A.1(c).

The Illicit Discharge Detection and Elimination (IDDE) program must include the following:

a. An up-to-date MS4 map (see Part III.B.2.(c)(1));
b. Methods for informing and training MS4 field staff (see Part III.B.2.(c)(2));
c. Procedures for tracing the source of an illicit discharge (see Part III.B.2.(c)(5));
d. Procedures for removing the source of the illicit discharge (see Part III.B.2.(c)(5));
e. For Level 2, 3 and 4 small MS4s, if applicable, procedures to prevent and correct any leaking on-site sewage disposal systems that discharge into the small MS4;
f. For Level 4 small MS4s, procedures for identifying priority areas within the small MS4 likely to have illicit discharges, and a list of all such areas identified in the small MS4 (see Part III.B.2.(e)(1));
g. For Level 4 small MS4s, field screening to detect illicit discharges (see Part III.B.2.(e)(2)); and
h. For Level 4 small MS4s, procedures to reduce the discharge of floatables in the MS4. (see Part III.B.2.(e)(3).)

(2) For non-traditional small MS4s, if illicit connections or illicit discharges are observed related to another operator's MS4, the permittee shall notify the other MS4 operator within 48 hours of discovery. If notification to the other MS4 operator is not practicable, then the permittee shall notify the appropriate TCEQ Regional Office of the possible illicit connection or illicit discharge.

(3) If another MS4 operator notifies the permittee of an illegal connection or illicit discharge to the small MS4, then the permittee shall follow the requirements specified in Part III.B.2.(c)(3).

(4) All permittees shall annually review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2. Any changes must be reflected in the annual report. Such written procedures must be maintained, either on site or in the SWMP and made available for inspection by the TCEQ.

(b) Allowable Non-Stormwater Discharges

Non-stormwater flows listed in Part II.C do not need to be considered by the permittee as an illicit discharge requiring elimination unless the permittee or the TCEQ identifies the flow as a significant source of pollutants to the small MS4.

(c) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.2(c)(1)-(6)

(1) MS4 mapping

All permittees shall maintain an up-to-date MS4 map, which must be located on site and available for review by the TCEQ. The MS4 map must show at a minimum the following information:

a. The location of all small MS4 outfalls that are operated by the permittee and that discharge into waters of the U.S;
b. The location and name of all surface waters receiving discharges from the small MS4 outfalls; and
c. Priority areas identified under Part III.B.2.(e)(1), if applicable.

(2) Education and Training

All permittees shall implement a method for informing or training all the permittee's field staff that may come into contact with or otherwise observe an illicit discharge or illicit connection to the small MS4 as part of their normal job responsibilities. Training program materials and attendance lists must be maintained on site and made available for review by the TCEQ.

(3) Public Reporting of Illicit Discharges and Spills

All permittees shall publicize and facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from the small MS4. The permittee shall provide a central contact point to receive reports; for example by including a phone number for complaints and spill reporting.

(4) All permittees shall develop and maintain on-site procedures for responding to illicit discharges and spills.

(5) Source Investigation and Elimination

a. Minimum Investigation Requirements – Upon becoming aware of an illicit discharge, all permittees shall conduct an investigation to identify and locate the source of such illicit discharge as soon as practicable.
(i) All permittees shall prioritize the investigation of discharges based on their relative risk of pollution. For example, sanitary sewage may be considered a high priority discharge.

(ii) All permittees shall report to the TCEQ immediately upon becoming aware of the occurrence of any illicit flows believed to be an immediate threat to human health or the environment.

(iii) All permittees shall track all investigations and document, at a minimum, the date(s) the illicit discharge was observed; the results of the investigation; any follow-up of the investigation; and the date the investigation was closed.

b. Identification and Investigation of the Source of the Illicit Discharge –All permittees shall investigate and document the source of illicit discharges where the permittees have jurisdiction to complete such an investigation. If the source of illicit discharge extends outside the permittee's boundary, all permittees shall notify the adjacent permitted MS4 operator or the appropriate TCEQ Regional Office according to Part III.A.3.b.

c. Corrective Action to Eliminate Illicit Discharge
If and when the source of the illicit discharge has been determined, all permittees shall immediately notify the responsible party of the problem, and shall require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge.

(6) Inspections –The permittee shall conduct inspections, in response to complaints, and shall conduct follow-up inspections to ensure that corrective measures have been implemented by the responsible party.

The permittee shall develop written procedures describing the basis for conducting inspections in response to complaints and conducting follow-up inspections.

3.2. *BMP Selection and Implementation*

BMPs selected to detect, investigate, and eliminate illicit discharges into the small MS4 concentrate on identifying potential areas where illicit discharges may occur and informing citizens living in these areas and personnel working in these areas of the effects of pollutants in stormwater runoff. Information presented under this MCM is intended to alleviate the impacts that illicit discharges and unauthorized dumping may have on local water ways during storm events.

3.3. *Selected BMPs*

3.3.1. BMP – MS4 Mapping

The boundaries of the Corpus Christi Urbanized Area and the eight unincorporated areas located within Nueces County's exclusive jurisdiction have been determined by reviewing available city and county data and maps from the 2010 United States Census. The Nueces County Unincorporated Areas MS4 boundaries are shown on Figure 1. Additional details have been mapped in Figure 2.

3.3.1.1. Measurable Goals

The goal for this BMP will be considered to be met if the MS4 Area Maps are updated or verified to be current annually. A log of updates/verifications to the MS4 Area Maps is included as Attachment 7.

3.3.1.2. Implementation Schedule and Distribution Method

MS4 Area Maps have been prepared and will be updated/verified to be up to date by December of each year.

3.3.1.3. Target Audience

The MS4 Area Maps will primarily be used by Nueces County personnel who conduct various inspections and reviews in accordance with this SWMP. They will also be available for member of the public that make an inquiry about a specific property or location related to the SWMP.

3.3.2. BMP – Employee Education on Illicit Discharge Detection and Elimination

Information on methods of detecting and addressing illicit discharges and connections that may be present within the MS4 has been included in a stormwater training presentation that is presented annually to Nueces County personnel who may perform work in the MS4.

3.3.2.1. Measurable Goals

The goal for this BMP will be considered to be met if personnel who may perform work in the MS4 are trained on IDDE. The training presentation and sign in sheets are included in Attachment 8.

3.3.2.2. Implementation Schedule and Distribution Method

The training presentation has been prepared and will be provided annually to personnel who may perform work in the MS4 by December of each year.

3.3.2.3. Target Audience

The training presentation has been prepared for Nueces County personnel who may encounter or observe illicit discharges or connections within the MS4.

3.3.3. BMP – Signs to Discourage Unauthorized Dumping

Signs discouraging unauthorized dumping will be posted throughout the MS4 in areas that are susceptible to repeat occurrences of unauthorized dumping.

3.3.3.1. Measurable Goals

The goal for this BMP will be considered to be met if at least two signs are present in the MS4. A map and a log of sign locations are included as Attachment 9.

3.3.3.2. Implementation Schedule and Distribution Method

The location and number of signs currently posted in the MS4 has been documented and will be verified annually by December of each year.

3.3.3.3. Target Audience

The signs are intended to discourage the general public from conducting unauthorized dumping and to allow for reporting by the general public of any observed instances of unauthorized dumping in the MS4.

3.3.4. BMP – Develop a Standard Operating Procedure for Responding, Investigating, and Removing Illicit Discharges

An Illicit Discharge, Detection, and Elimination (IDDE) Manual which discusses procedures to discover, identify, respond, investigate, and remove illicit discharges and connections has been prepared for the MS4 Areas.

3.3.4.1. Measurable Goals

The goal for this BMP will be considered to be met if the IDDE Manual has been prepared. The IDDE Manual, including a log of updates, is included as Attachment 10.

3.3.4.2. Implementation Schedule and Distribution Method

The IDDE Manual has been prepared and will be verified to be up to date by December of each year.

3.3.4.3. Target Audience

The IDDE Manual is intended for Nueces County personnel who may encounter or observe illicit discharges or connections within the MS4.

3.3.5. BMP – Develop a Written Procedure Describing the Basis for Conducting Inspections in Response to Complaints and Conducting Follow-up Inspections

The IDDE Manual includes the basis for conducting inspections in response to complaints and conducting follow-up inspections and is provided in Attachment 10.

3.3.5.1. Measurable Goals

The goal for this BMP will be considered to be met if the IDDE Manual has been verified to include the basis for conducting inspections in response to complaints and conducting follow-up inspections.

3.3.5.2. Implementation Schedule and Distribution Method

The IDDE Manual was updated to address this BMP in June 2020 and can be seen in Appendix A of the IDDE Manual.

3.3.5.3. Target Audience

The IDDE Manual is intended for Nueces County personnel who may encounter or observe illicit discharges or connections within the MS4.

3.3.6. BMP – Conduct Inspections of MS4 to Detect Illicit Discharges and Connections and Unauthorized Dumping

Inspections of the MS4 Areas will be conducted on a quarterly basis, with each of the eight MS4 Areas identified in Figure 2 being visually inspected specifically for signs of illicit discharges and connections and unauthorized dumping. If an illicit discharge is encountered during an inspection, the Illicit Discharge and Unauthorized Dumping Observation Form from the IDDE Manual in Attachment 10 may be used for documenting observed incidents.

3.3.6.1. Measurable Goals

The goal for this BMP will be considered to be met if quarterly inspections are conducted each year.

3.3.6.2. Implementation Schedule and Distribution Method

Inspections focused on the MS4 Areas will be conducted once per quarter throughout each year.

3.3.6.3. Target Audience

Inspections of the MS4 are conducted to determine if there are activities potentially contributing pollution to water ways or stormwater runoff via illicit discharges or unauthorized dumping. Inspection reports are provided to Nueces County to allow action to be taken to remove illicit discharges or materials that have been dumped without authorization.

4. MCM 3 – Construction Site Stormwater Runoff Control

4.1. *TXR040000 Permit Requirements*

(a) Requirements and Control Measures

(1) All permittees shall develop, implement, and enforce a program requiring operators of small and large construction activities, as defined in Part I of this general permit, to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the MEP. The program must include the development and implementation of an ordinance or other regulatory mechanism, as well as sanctions to ensure compliance to the extent allowable under state, federal, and local law, to require erosion and sediment control.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term.

If TCEQ waives requirements for stormwater discharges associated with small construction from a specific site(s), the permittee is not required to enforce the program to reduce pollutant discharges from such site(s).

(b) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.3(b)(1)-(7)

(1) All permittees shall annually review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2. Any changes must be included in the annual report. Such written procedures must be maintained on site or in the SWMP and made available for inspection by the TCEQ.
(2) All permittees shall require that construction site operators implement appropriate erosion and sediment control BMPs. The permittee's construction program must ensure the following minimum requirements are effectively implemented for all small and large construction activities discharging to its small MS4.

a. Erosion and Sediment Controls - Design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants.
b. Soil Stabilization - Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed as soon as practicable, but no more than 14 calendar days after the initiation of soil stabilization measures. In arid, semiarid, and drought-stricken areas, where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed.

The permittee shall develop written procedures that describes initiating and completing stabilization measures for construction sites.

c. *BMPs – Design, install, implement, and maintain effective BMPs to minimize the discharge of pollutants to the small MS4. At a minimum, such BMPs must be designed, installed, implemented and maintained to:*
   (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters;
   (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater; and
   (iii) Minimize the discharge of pollutants from spills and leaks.
d. *As an alternative to (a) through (c) above, all permittees shall ensure that all small and large construction activities discharging to the small MS4 have developed and implemented a stormwater pollution prevention plan (SWP3) in accordance with the TPDES CGP TXR150000. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed and described in the written procedure required in item (2)b. above. As an alternative, vegetative stabilization measures may be implemented as soon as practicable.*

(3) Prohibited Discharges - The following discharges are prohibited:

a. *Wastewater from washout of concrete and wastewater from water well drilling operations, unless managed by an appropriate control;*
b. *Wastewater from washout and cleanout of stucco, paint, from release oils, and other construction materials;*
c. *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;*
d. *Soaps or solvents used in vehicle and equipment washing; and*
e. *Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, unless managed by appropriate BMPs.*

(4) Construction Plan Review Procedures

To the extent allowable by state, federal, and local law, all permittees shall maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction. For those permittees without legal authority to enforce site plan reviews, this requirement is limited to those sites operated by the permittee and its contractors and located within the permittee's regulated area. The site plan procedures must meet the following minimum requirements:

a. *The site plan review procedures must incorporate consideration of potential water quality impacts.*
b. *The permittee may not approve any plans unless the plans contain appropriate site specific construction site control measures that, at a minimum, meet the requirements described in Part III.B.3.(a) or in the TPDES CGP, TXR150000.*

The permittee may require and accept a plan, such as a SWP3, that has been developed pursuant to the TPDES CGP, TXR150000.

(5) Construction Site Inspections and Enforcement

To the extent allowable by state, federal, and local law, all permittees shall implement procedures for inspecting large and small construction projects. Permittees without legal authority to inspect construction sites shall at a minimum conduct inspection of sites operated by the permittee or its contractors and that are located in the permittee's regulated area.

a. The permittee shall conduct inspections based on the evaluation of factors that are a threat to water quality, such as: soil erosion potential; site slope; project size and type; sensitivity of receiving waterbodies; proximity to receiving waterbodies; non-stormwater discharges; and past record of non-compliance by the operators of the construction site.
b. Inspections must occur during the active construction phase.
(i) All permittees shall develop and implement updated written procedures outlining the inspection and enforcement requirements. These procedures must be maintained on-site or in the SWMP and be made available to TCEQ.
(ii) Inspections of construction sites must, at a minimum:
1. Determine whether the site has appropriate coverage under the TPDES CGP, TXR150000. If no coverage exists, notify the permittee of the need for permit coverage;
2. Conduct a site inspection to determine if control measures have been selected, installed, implemented, and maintained according to the small MS4's requirements;
3. Assess compliance with the permittee's ordinances and other regulations; and
4. Provide a written or electronic inspection report.
c. Based on site inspection findings, all permittees shall take all necessary followup actions (for example, follow-up-inspections or enforcement) to ensure compliance with permit requirements and the SWMP. These follow-up and enforcement actions must be tracked and maintained for review by the TCEQ.

For non-traditional small MS4s with no enforcement powers, the permittee shall notify the adjacent MS4 operator with enforcement authority or the appropriate TCEQ Regional Office according to Part III.A.3(b).

(6) Information submitted by the Public

All permittees shall develop, implement, and maintain procedures for receipt and consideration of information submitted by the public.

(7) MS4 Staff Training

All permittees shall ensure that all staff whose primary job duties are related to implementing the construction stormwater program (including permitting, plan review, construction site inspections, and enforcement) are informed or trained to conduct these activities. The training may be conducted by the permittee or by outside trainers.

4.2. *BMP Selection and Implementation*

BMPs selected for controlling construction site stormwater runoff focus on requiring operators of small and large construction activities to select, install, implement, and maintain stormwater control measures that prevent illicit discharges to the MS4 to the maximum extent practicable. Information presented under this MCM is intended to ensure that appropriate construction sites can be identified and that activities at construction sites within the MS4 are not contributing pollutants to local water ways during storm events.

4.3. *Selected BMPs*

4.3.1. BMP – Employee Education on Stormwater Pollution Prevention Plan Requirements

Nueces County personnel who are expected to ensure Stormwater Pollution Prevention Plans (SWPPPs) are developed and prepared for construction projects submitted to Nueces County within the MS4 will be provided information allowing them to make this determination. This information is provided in Attachment 11.

4.3.1.1. Measurable Goals

The goal for this BMP will be considered to be met if information has been provided to all personnel reviewing SWPPP information.

4.3.1.2. Implementation Schedule and Distribution Method

Information on SWPPP applicability has been prepared and provided to all personnel currently reviewing SWPPP information. A log of personnel that have received this information is also provided in Attachment 11 and will be verified by December of each year.

4.3.1.3. Target Audience

This BMP is intended to inform Nueces County personnel who receive submittals on construction sites within the MS4 to determine if a site requires development and implementation of a SWPPP.

4.3.2. BMP – Ensure a Stormwater Pollution Prevention Plan is Developed for Construction Projects in the MS4

Nueces County will ensure that a SWPPP has been developed and prepared for all small and large construction activities within the MS4 for which Nueces County is the owner or operator. Sites within the MS4 that are not owned or operated by Nueces County, but are observed as present during an inspection, are researched to determine whether a Notice of Intent (NOI) has been submitted to

discharge stormwater from a construction site under the TCEQ Construction General Permit (TXR150000).

4.3.2.1. Measurable Goals

The goal for this BMP will be considered to be met if SWPPP status information is documented for 100 percent of projects within the MS4 for which submittals were received and for projects which were observed as present during an inspection. A list of documented projects is included in Attachment 12.

4.3.2.2. Implementation Schedule and Distribution Method

Review of SWPPP status for projects will occur throughout the year and will be documented by December of each year.

4.3.2.3. Target Audience

This BMP is intended to ensure that Nueces County personnel document that a SWPPP has been developed for construction projects within the MS4 that require coverage under TXR150000.

4.3.3. BMP – Review Project Documents for Construction Activities Located in MS4

Nueces County personnel currently review project documents that are submitted for proposed developments as outlined in the Nueces County Subdivision Regulations and Platting Requirements which are available online at https://www.nuecesco.com/home/showpublisheddocument/32063605864538863000document. Personnel conducting project document reviews are familiar with the MS4 Area boundaries. For projects where stormwater control measures are subject to Nueces County's authority, site stormwater control measures must, at a minimum, meet the requirements of the TCEQ Construction General Permit (TXR150000).

4.3.3.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of project documents received for sites within the MS4 are reviewed. A log of construction sites within the MS4 Areas for which project documents have been reviewed is provided as Attachment 13.

4.3.3.2. Implementation Schedule and Distribution Method

Review of project documents submitted to Nueces County will occur throughout the year and will be documented by December of each year.

4.3.3.3. Target Audience

This BMP is intended to inform Nueces County personnel of project document review requirements.

4.3.4. BMP – Address Public Inquiries, Concerns, and Information Reporting on Construction Sites

Nueces County has personnel trained to receive reports from the general public on information related to stormwater quality at construction sites within the MS4. Reports can be made to the Department of Public Works; the phone number for the department is posted on Nueces County's website.

4.3.4.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of public inquiries, concerns, and reports received pertaining to stormwater at construction sites within the MS4 are documented. Records of reports received are included in Attachment 14.

4.3.4.2. Implementation Schedule and Distribution Method

Reports from the general public on stormwater quality at construction sites in the MS4 will be addressed as they are received and documented by December of each year.

4.3.4.3. Target Audience

This BMP is intended to allow Nueces County to address citizen's concerns relating to stormwater quality at construction sites within the MS4.

4.3.5. BMP – Conduct Periodic Inspections on Selected Construction Sites within the MS4

Nueces County will conduct periodic inspections on selected construction sites within the MS4. Site selection and inspection frequency will vary depending on the type and size of the project as well as the proximity of the project to environmentally sensitive locations. Inspections will consist of observation and research for construction sites within the MS4 that are not owned or operated by Nueces County. Site inspections will be conducted in accordance with the Construction Site Inspection Procedures provided in Attachment 15.

4.3.5.1. Measurable Goals

The goal for this BMP will be considered to be met if the 100 percent of observed construction sites within the MS4 are inspected at least once per year. A record of sites inspected is provided as Appendix C of the Construction Site Inspection Procedures.

4.3.5.2. Implementation Schedule and Distribution Method

Construction site inspections will be conducted as projects occur and will be documented by December of each year.

4.3.5.3. Target Audience

Inspections will be conducted by designated Nueces County personnel.

5. MCM 4 – Post-Construction Stormwater Management in New Development and Redevelopment

5.1. *TXR040000 Permit Requirements*

(a) Post-Construction Stormwater Management Program

(1) All permittees shall develop, implement, and enforce a program, to the extent allowable under state, federal, and local law, to control stormwater discharges from new development and redeveloped sites that discharge into the small MS4 that disturb one acre or more, including projects that disturb less than one acre that are part of a larger common plan of development or sale. The program must be established for private and public development sites. The program may utilize an offsite mitigation and payment in lieu of components to address this requirement.

Existing permittees shall assess program elements that were described in the previous permit and modify as necessary to continue reducing the discharge of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of the permit term.

(2) All permittees shall use, to the extent allowable under state, federal, and local law and local development standards, an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects. The permittees shall establish, implement, and enforce a requirement that owners or operators of new development and redeveloped sites design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality. If the construction of permanent structures is not feasible due to space limitations, health and safety concerns, cost effectiveness, or highway construction codes, the permittee may propose an alternative approach to TCEQ. Newly regulated permittees shall have the program element fully implemented by the end of the permit term.

(b) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.4.(b)(1)-(3)

(1) All permittees shall annually review and update as necessary, the SWMP and MCM implementation procedures required by Part III.A.2. Any changes must be included in the annual report. Such written procedures must be maintained either on site or in the SWMP and made available for inspection by TCEQ.

(2) All permittees shall document and maintain records of enforcement actions and make them available for review by the TCEQ.

(3) Long-Term Maintenance of Post-Construction Stormwater Control Measures

All permittees shall, to the extent allowable under state, federal, and local law, ensure the long-term operation and maintenance of structural stormwater control measures installed through one or both of the following approaches:

a. Maintenance performed by the permittee. (See Part III.B.5)

b. Maintenance performed by the owner or operator of a new development or redeveloped site under a maintenance plan. The maintenance plan must be filed in the real property records of the county in which the property is located. The permittee shall require the owner or operator of any new development or redeveloped site to develop and implement a maintenance plan addressing maintenance requirements for any structural control measures installed on site. The permittee shall require operation and maintenance performed is documented and retained on site, such as at the offices of the owner or operator, and made available for review by the small MS4.

5.2. *BMP Selection and Implementation*

BMPs selected for post-construction stormwater management require operators of new development and redevelopment projects to address post-construction stormwater runoff. Owners and operators of newly developed and redeveloped sites will design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and protective of water quality in the MS4. Information presented under this MCM is intended to ensure that newly developed or redeveloped sites are not contributing pollutants to the MS4 during storm events.

5.3. *Selected BMPs*

5.3.1. BMP – Develop, Implement, and Enforce a Program to Control Stormwater Discharges from New Development and Redeveloped Sites

Stormwater drainage for new development and redeveloped sites is addressed within Chapter VI, Engineering Guidelines, of the Nueces County Subdivision Regulations and Platting Requirements.

Enforcement procedures are discussed in Chapter II, Division 4 of the Nueces County Subdivision Regulations and Platting Requirements.

5.3.1.1. Measurable Goals

The goal for this BMP will be considered to be met if new development and redevelopment construction sites are evaluated to determine if they are meeting the requirements of the Nueces County Subdivision Regulations and Platting Requirements. The current Nueces County Subdivision Regulations and Platting Requirements are available on the Nueces County website at https://www.nuecesco.com/home/showpublisheddocument/320/636058645388630000.

5.3.1.2. Implementation Schedule and Distribution Method

Evaluation of new development and redevelopment construction sites will occur throughout the year and will be documented by December of each year in Attachment 16.

5.3.1.3. Target Audience

This BMP is intended to ensure developers take post-construction stormwater control measures into account when designing and constructing developments within the MS4.

5.3.2. BMP – Ensure Maintenance is Performed on Post-Construction Stormwater Control Measures

Nueces County will ensure that long-term maintenance of post-construction stormwater control measures installed in the MS4 is performed through the following approaches:

5.3.2.1. Maintenance Performed by Nueces County

Maintenance for Nueces County owned and operated stormwater control measures will be conducted by Nueces County Department of Public Works personnel as described in Section 6.3.4 of this SWMP, Perform Maintenance on Structural Controls.

5.3.2.2. Maintenance Performed by the Owner or Operator of a New Development or Redeveloped Site under a Maintenance Plan

Maintenance for stormwater control measures owned and operated by other entities will be the responsibility of those entities and will be conducted in accordance with the Nueces County Subdivision Regulations and Platting Requirements. In addition, Nueces County will require a maintenance plan to be filed in the real property records of the County. The maintenance plan must be developed and implemented to address maintenance requirements for any stormwater control measures installed on-site at new development or redeveloped sites. Documentation of maintenance performed on stormwater control measures must be maintained by the owner or operator.

In the event that Nueces County accepts dedication of a stormwater control measure through approval by the Commissioners Court, Nueces County will perform maintenance as described in Section 6.3.4 of this SWMP, Perform Maintenance on Structural Controls.

5.3.2.3. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of stormwater control measures owned and operated by Nueces County identified as requiring maintenance during an annual

inspection are maintained and if 100 percent of non-Nueces County sites are required to submit maintenance plans. Maintenance records for Nueces County sites are stored by the Nueces County Department of Public Works. A log of maintenance plans submitted to Nueces County for stormwater control measures owned and operated by other entities is provided in Attachment 17.

5.3.2.4. Implementation Schedule and Distribution Method

For Nueces County owned and operated stormwater control measures, maintenance will be performed for stormwater control measures by December of each year.

For non-Nueces County owned and operated stormwater control measures, maintenance plans will be logged by December of each year.

5.3.2.5. Target Audience

This BMP is intended to ensure Nueces County personnel are aware of the need to perform maintenance on stormwater control measures owned and operated by Nueces County and to ensure developers are aware of the need to perform maintenance on non-Nueces County owned and operated stormwater control measures.

6. MCM 5 – Pollution Prevention and Good Housekeeping for Municipal Operations

6.1. *TXR040000 Permit Requirements*

(a) Program development

All permittees shall develop and implement an operation and maintenance program, including an employee training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal activities and municipally owned areas including but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; waste transfer stations; and salt/sand storage locations.

Existing permittees shall assess program elements that were described in the previous permit, modify as necessary, and develop and implement new elements, as necessary, to continue reducing the discharges of pollutants from the MS4 to the MEP. New elements must be fully implemented by the end of this permit term and newly regulated permittees shall have the program fully implemented by the end of this permit term. (See also Part III.A.1.(c))

(b) Requirements for all Permittees

All permittees shall include the requirements described below in Parts III.B.5.(1)-(6) in the program:

(1) Permittee-owned Facilities and Control Inventory

All permittees shall develop and maintain an inventory of facilities and stormwater controls that it owns and operates within the regulated area of the small MS4. The inventory must include all applicable permit numbers, registration numbers, and authorizations for each facility or controls. The inventory must be available for review by TCEQ and must include, but is not limited, to the following, as applicable:

a. Composting facilities;
b. Equipment storage and maintenance facilities;
c. Fuel storage facilities;
d. Hazardous waste disposal facilities;
e. Hazardous waste handling and transfer facilities;
f. Incinerators;
g. Landfills;
h. Materials storage yards;
i. Pesticide storage facilities;
j. Buildings, including schools, libraries, police stations, fire stations, and office buildings;
k. Parking lots;
l. Golf courses;
m. Swimming pools;

n. Public works yards;
o. Recycling facilities;
p. Salt storage facilities;
q. Solid waste handling and transfer facilities;
r. Street repair and maintenance sites;
s. Vehicle storage and maintenance yards; and
t. Structural stormwater controls.

(2) Training and Education

All permittees shall inform or train appropriate employees involved in implementing pollution prevention and good housekeeping practices. All permittees shall maintain a training attendance list for inspection by TCEQ when requested.

(3) Disposal of Waste Material -Waste materials removed from the small MS4 must be disposed of in accordance with 30 TAC Chapters 330 or 335, as applicable.

(4) Contractor Requirements and Oversight

a. Any contractors hired by the permittee to perform maintenance activities on permittee-owned facilities must be contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility specific stormwater management operating procedures described in Parts III B.5.(b)(2)-(6).
b. All permittees shall provide oversight of contractor activities to ensure that contractors are using appropriate control measures and SOPs. Oversight procedures must be maintained on-site and made available for inspection by TCEQ.

(5) Municipal Operation and Maintenance Activities

a. Assessment of permittee-owned operations
All permittees shall evaluate operation and maintenance (O&M) activities for their potential to discharge pollutants in stormwater, including but not limited to:
(i) Road and parking lot maintenance, including such areas as pothole repair, pavement marking, sealing, and re-paving;
(ii) Bridge maintenance, including such areas as re-chipping, grinding, and saw cutting;
(iii) Cold weather operations, including plowing, sanding, and application of deicing and anti-icing compounds and maintenance of snow disposal areas; and
(iv) Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation.
b. All permittees shall identify pollutants of concern that could be discharged from the above O&M activities (for example, metals; chlorides; hydrocarbons such as benzene, toluene, ethyl benzene, and xylenes; sediment; and trash).
c. All permittees shall develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the above activities. These pollution prevention measures may include the following examples:
(i) Replacing materials and chemicals with more environmentally benign materials or methods;

(ii) Changing operations to minimize the exposure or mobilization of pollutants to prevent them from entering surface waters; and

(iii) Placing barriers around or conducting runoff away from deicing chemical storage areas to prevent discharge into surface waters.

d. Inspection of pollution prevention measures - All pollution prevention measures implemented at permittee-owned facilities must be visually inspected to ensure they are working properly. The permittee shall develop written procedures that describes frequency of inspections and how they will be conducted. A log of inspections must be maintained and made available for review by the TCEQ upon request.

(6) Structural Control Maintenance

If BMPs include structural controls, maintenance of the controls must be performed by the permittee and consistent with maintaining the effectiveness of the BMP. The permittee shall develop written procedures that define the frequency of inspections and how they will be conducted.

6.2. *BMP Selection and Implementation*

BMPs selected to utilize pollution prevention and good housekeeping measures focus on identifying possible areas where pollutants may originate from and eliminating their potential effect on stormwater runoff. Information presented under this MCM is intended to inform Nueces County personnel of activities that may contribute pollutants to stormwater runoff in the MS4 and methods of reducing these pollutant levels.

As a Level 2 small MS4, Nueces County must comply with Part III, Section B(5)(a) and (b) of the General Permit, but is exempt from Level 3 and Level 4 MS4 requirements found in Part III, Section B(5)(c) and (d). The following BMPs have been selected to meet the requirements of a Level 2 MS4 operator.

6.3. *Selected BMPs*

6.3.1. BMP – Develop and Maintain an Inventory of Facilities and Stormwater Structural Controls within the MS4

Nueces County has developed an inventory of existing stormwater structural controls which the County is responsible for that are located within the MS4 Areas. The inventory includes culverts that cross under roadways, concrete swales, and grated inlets. No Nueces County owned or operated facilities are located within the MS4 Areas.

6.3.1.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of Nueces County owned and operated stormwater structural controls within the MS4 are included in the inventory. The current inventory is included in the Stormwater Structural Control Inspection Procedures in Attachment 18.

6.3.1.2. Implementation Schedule and Distribution Method

An inventory of stormwater structural controls has been prepared and will be updated by December of each year when new stormwater structural controls are added.

6.3.1.3. Target Audience

The inventory is intended to inform Nueces County personnel of areas within the MS4 that could potentially contribute pollutants to stormwater runoff as well as areas within the MS4 that could affect or obstruct the flow of stormwater runoff.

6.3.2. BMP – Prepare Stormwater Structural Control Inspection Procedures

Nueces County will developed inspection procedures to ensure that inspections being done on stormwater structural controls are sufficient to detect concerns that could cause pollution or obstruct stormwater flow.

6.3.2.1. Measurable Goals

The goal for this BMP will be considered to be met if stormwater structural control inspection procedures are prepared.

6.3.2.2. Implementation Schedule and Distribution Method

Stormwater Structural Control Procedures have been prepared and will be verified to be current by December of each year. The procedures, including an update log, are included in Attachment 18.

6.3.2.3. Target Audience

The inspection procedures are intended to ensure that Nueces County personnel performing inspections are aware of conditions that could contribute pollution or impact stormwater flow.

6.3.3. BMP – Conduct Inspections of Pollution Prevention Measures

Nueces County will perform inspections of Nueces County owned or operated stormwater structural controls within the MS4, including culverts that cross under roadways, concrete swales, and grated inlets.

6.3.3.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of the stormwater structural controls on the Inventory of Structural Controls in Attachment 18 have been inspected.

6.3.3.2. Implementation Schedule and Distribution Method

Inspections of stormwater structural controls will be conducted on an annual basis by December of each year.

6.3.3.3. Target Audience

Stormwater structural controls are inspected to allow Nueces County personnel to identify locations within the MS4 Areas that may need maintenance or improvement to prevent pollution or obstruction of stormwater flow.

6.3.4. BMP – Perform Maintenance on Structural Controls

Nueces County will perform maintenance on stormwater structural controls identified on the Inventory of Structural Controls.

6.3.4.1. Measurable Goals

The goal for this BMP will be considered to be met if maintenance is performed on 100 percent of the stormwater structural controls identified as requiring maintenance in the annual inspection report. Recommendations can be found within the reports documenting IDDE inspection findings which are maintained by the Nueces County Department of Public Works along with records of maintenance activities performed.

6.3.4.2. Implementation Schedule and Distribution Method

Maintenance of stormwater structural controls will be performed by December of each year.

6.3.4.3. Target Audience

Maintenance will be conducted by Nueces County Department of Public Works personnel in order to maintain the effectiveness of stormwater structural controls.

6.3.5. BMP – Conduct Training for Nueces County Personnel

Nueces County will provide training for personnel involved in implementing pollution prevention and good housekeeping measures. Personnel involved in implementing these measures receive annual training under four Stormwater Pollution Prevention Plans (SWPPPs) that exist for the Nueces County Department of Public Works garage and storage facilities and for the Nueces County Airport. These facilities are not located within the MS4; however, personnel based at these facilities may perform work in the MS4.

6.3.5.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of personnel who may perform work in the MS4 are trained. Sign-in sheets for personnel who receive training are provided in Attachment 8.

6.3.5.2. Implementation Schedule and Distribution Method

Nueces County personnel who may perform work within the MS4 will receive training on an annual basis by December of each year. Training materials are distributed by facility managers to personnel during meetings.

6.3.5.3. Target Audience

Training on pollution prevention and good housekeeping measures is intended to inform Nueces County personnel of methods that can be used to prevent pollutants from being introduced to stormwater runoff when working in the MS4.

6.3.6. BMP – Use Proper Waste Disposal Procedures

Nueces County currently provides for the collection of household garbage and brush in the unincorporated areas of Nueces County, including the MS4 areas, through the use of a private solid waste contractor, Absolute Industries. Waste collection is authorized under the Nueces County Solid Waste Order which is pursuant to Title 5, Chapter 364 of the Texas Health and Safety Code, and requires all rural residents to use the curbside solid waste collection service provided by the County. The Nueces County Solid Waste Order was adopted on November 12, 2002 and became effective February 1, 2003. Solid waste information is available on the Nueces County website at https://www.nuecesco.com/county-services/public-works/environmental-enforcement.

6.3.6.1. Measurable Goals

The goal for this BMP will be considered to be met if Nueces County has contracted with a waste contractor.

6.3.6.2. Implementation Schedule and Distribution Method

The solid waste contractor will be verified annually by December of each year.

6.3.6.3. Target Audience

Information on solid waste is intended to inform Nueces County citizens of basic policies relating to household garbage and brush collection in the rural portions of Nueces County, including the MS4 Areas.

6.3.7. BMP – Require Contractors to Comply with Stormwater Control Measures, Good Housekeeping Practices, and Facility-Specific Stormwater Management Procedures

Nueces County includes contract language in all agreements with contractors that states that the contractor shall comply with all applicable Federal, State, and local laws, statutes, codes, ordinances, rules, and regulations, and the orders and decrees of any court, or administrative bodies or tribunals, in any manner affecting the performance of the contract, including, without limitation, worker's compensation laws, minimum salary and wage statutes and regulations, and licensing laws and regulations. In addition to the requirement for contractors to comply with applicable laws, Nueces County staff advise contractors on the requirements of the Nueces County Stormwater Management Program for Nueces County Unincorporated Areas, as well as compliance with EPA and TCEQ rules. An information sheet on pollution prevention measures, good housekeeping practices, and proper waste disposal methods described in TXR040000 Parts III B.5.(2)-(6) has been prepared for contractors who may perform activities for Nueces County within the MS4.

6.3.7.1. Measurable Goals

The goal for this BMP will be considered to be met if information sheets are provided to 100 percent of contractors performing work which may impact stormwater quality in the MS4.

6.3.7.2. Implementation Schedule and Distribution Method

Records of contractors receiving the information sheet will be documented by December of each year. The information sheet and a log of contractors who have received it are included in the Construction Site Inspection Procedures in Attachment 15.

6.3.7.3. Target Audience

This BMP is intended to inform Nueces County's contractors of pollution prevention measures, good housekeeping practices, and proper waste disposal methods that may be utilized to reduce pollutants entering stormwater runoff.

6.3.8. BMP – Develop Contractor Oversight Procedures

Nueces County has developed oversight procedures to ensure its contractors are using appropriate control measures and standard operating procedures when conducting maintenance activities in the MS4.

6.3.8.1. Measurable Goals

The goal for this BMP will be considered to be met if Contractor Oversight Procedures have been developed.

6.3.8.2. Implementation Schedule and Distribution Method

Contractor Oversight Procedures have been developed and will be verified to be current by December of each year. The procedures, including a log of updates, are provided as Attachment 19.

6.3.8.3. Target Audience

This BMP is intended to allow Nueces County personnel to ensure the County's contractors working in the MS4 are not potentially contributing pollutants to stormwater runoff or obstructing the flow of stormwater runoff.

6.3.9. BMP – Evaluate Nueces County Operation and Maintenance Activities in MS4

Nueces County has evaluated its operation and maintenance activities for their potential to discharge pollutants in stormwater runoff in the MS4, including road and parking lot maintenance, bridge maintenance, right-of-way maintenance, and cold weather operations. Pollutants of concern have been determined and pollution prevention measures have been developed and implemented with the intent of reducing the discharge of pollutants in stormwater. The evaluation and a log of updates to the evaluation are included as Attachment 20.

6.3.9.1. Measurable Goals

The goal for this BMP will be considered to be met if 100 percent of operation and maintenance activities in the MS4 have been evaluated.

6.3.9.2. Implementation Schedule and Distribution Method

Nueces County's operation and maintenance activities have been evaluated and will be verified to be current by December of each year.

6.3.9.3. Target Audience

Evaluation of the operations and maintenance activities is intended to identify actions that Nueces County personnel take that may contribute pollutants to stormwater runoff in the MS4 and what can be changed to prevent this from happening.

6.3.10. BMP – Perform Water Body Impairment Status Check

Nueces County will perform an annual check to determine whether the impairment or Total Daily Maximum Load (TMDL) status has changed for streams receiving stormwater discharge from the MS4.

6.3.10.1. Measurable Goals

The goal for this BMP will be considered to be met if the impairment status and TMDL status of 100 percent of streams that receive stormwater discharge from the MS4 have been reviewed. Documentation will be provided in Attachment 21.

6.3.10.2. Implementation Schedule and Distribution Method

Impairment status and TMDL status will be documented by December of each year.

6.3.10.3. Target Audience

The annual check is intended to inform Nueces County personnel of potential changes to stormwater discharge requirements based on water body impairment status.

7. MCM 6 – Industrial Stormwater Sources

7.1. *TXR040000 Permit Requirements*

Nueces County does not operate a level 4 small MS4; therefore, the MCM 6 permit requirements are not applicable.

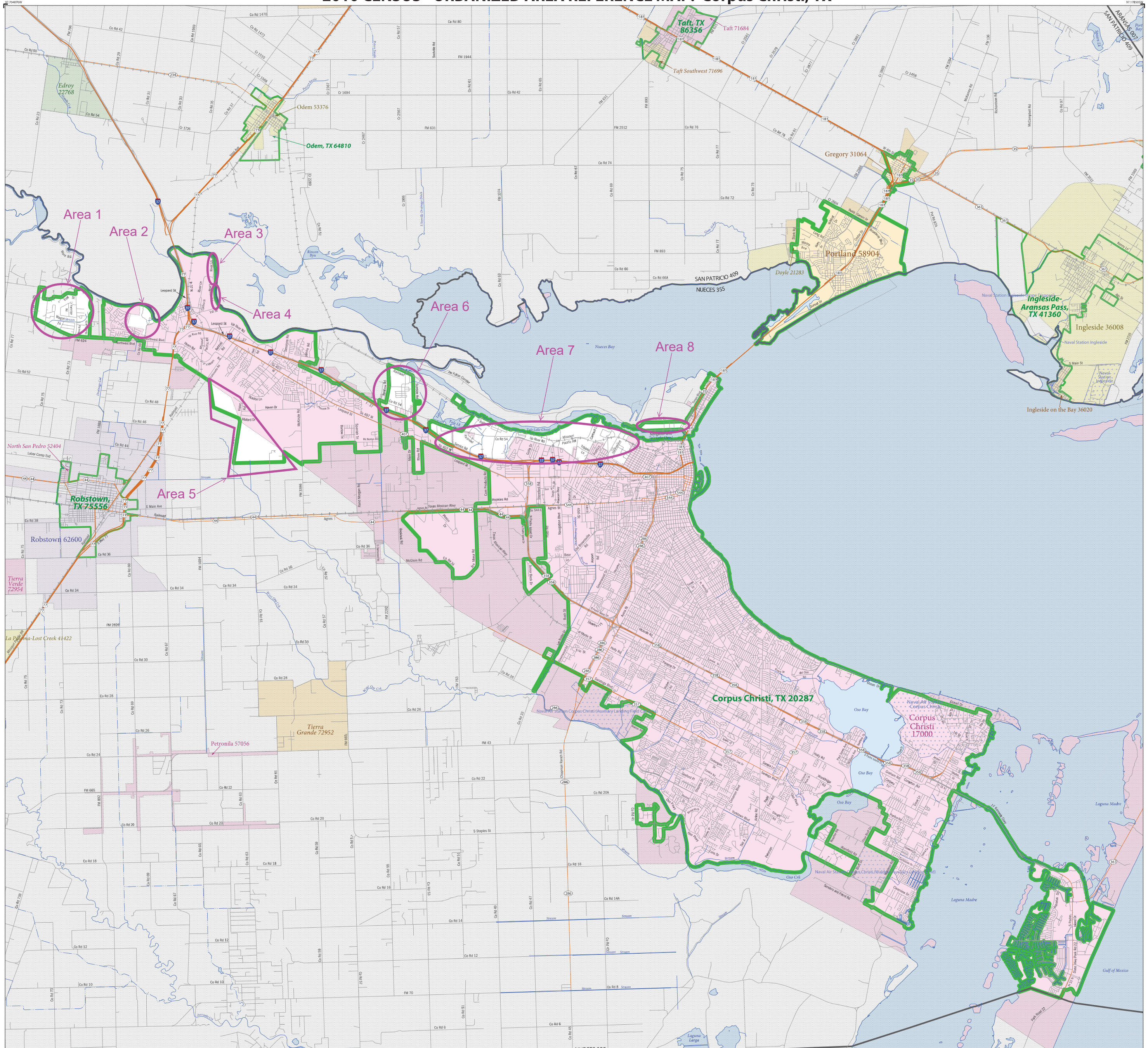
8. MCM 7 – Authorization for Construction Activities where the small MS4 is the Site Operator

8.1. *TXR040000 Permit Requirements*

Nueces County has chosen not to utilize this optional MCM for authorizing Nueces County construction activities within the unincorporated areas.

Figure 1
Map of MS4 Areas

2010 CENSUS - URBANIZED AREA REFERENCE MAP: Corpus Christi, TX



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

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Checked By:	TLD	Project Number:	[illegible]	Date:	[illegible]	1 of 1

Map of MS4 Areas
Nueces County Unincorporated Area MS4
Nueces County, Texas

LEGEND

SYMBOL DESCRIPTION	SYMBOL	LABEL STYLE
International		CANADA
Federal American Indian Reservation		L'ANSE RES 1880
Off-Reservation Trust Land		T1880
Urbanized Area		Dover, DE 24580
Urban Cluster		Tooele, VT 88057
State (or statistically equivalent entity)		NEW YORK 36
County (or statistically equivalent entity)		ERIE 029
Minor Civil Division (MCD) 1,2		Bristol town 07485
Consolidated City		MILFORD 47500
Incorporated Place 1,3		Davis 18100
Census Designated Place (CDP) 3		Incline Village 35100

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
Interstate	3	Water Body	Pleasant Lake
U.S. Highway	2	Military	Fort Belvoir
State Highway	4	Outside Subject Area	
Other Road	Marsh Ln		
Railroad	Southern RR		
Perennial Stream	Tumbling Cr		
Intermittent Stream	Piney Cr		

Where international, state, county, and/or MCD boundaries coincide, the map shows the boundary symbol for only the highest-ranking of these boundaries.

1 A ' ° ' following an MCD name denotes a false MCD. A ' ° ' following a place name indicates that a false MCD exists with the same name and FIPS code as the place; the false MCD label is not shown.

2 MCD boundaries are shown in the following states in which some or all MCDs function as general-purpose governmental units: Connecticut, Illinois, Indiana, Kansas, Maine, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, and Wisconsin. (Note that Illinois and Nebraska have some counties covered by nongovernmental precincts and Missouri has most counties covered by nongovernmental townships.)

3 Place label color corresponds to the place fill color.
Label colors: Davis Davis Davis Davis Davis

SUBJECT AREA COUNTIES ON MAP SHEET
48355 Nueces
48409 San Patricio

27.528961N 97.71608W

All legal boundaries and names are as of January 1, 2010. Urban areas are based on results from the 2010 Decennial Census. The boundaries shown on this map are for Census Bureau statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement.

Geographic Vintage: 2010 Census (reference date: January 1, 2010)
Data Source: U.S. Census Bureau's MAF/TIGER database (TAB10)
Map Created by Geography Division: March 10, 2012

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. Census Bureau

Projection: Albers Equal Area Conic
Datum: NAD 83
Spheroid: GRS 80
1st Standard Parallel: 27 36 51
2nd Standard Parallel: 34 43 24
Central Meridian: -100 04 35
Latitude of Projection's Origin: 25 50 13
False Easting: 0
False Northing: 0

0 2 4 6 8 10 Kilometers
0 1 2 3 4 5 Miles
The plotted map scale is 1:70900

N W E S

United States Census Bureau

27.517915N 97.192194W

PARENT SHEET 1

Total Sheets: 1
- Index Sheets: 0
- Parent Sheets: 1

UA NAME: Corpus Christi, TX
UA CODE: 20287
ENTITY TYPE: Urbanized Area (UA)
ST: Texas (48)

2010 CENSUS UA REF MAP (PARENT)
231020287001

Figure 2
Detail Maps of MS4 Areas

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

Drawn By:	TLD	Scale:	As Shown	Sheet Number:
Project Number:	160442E	Date:	1-17-2021	1 of 1

Detail Map of MS4 Area 1

Area 1 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

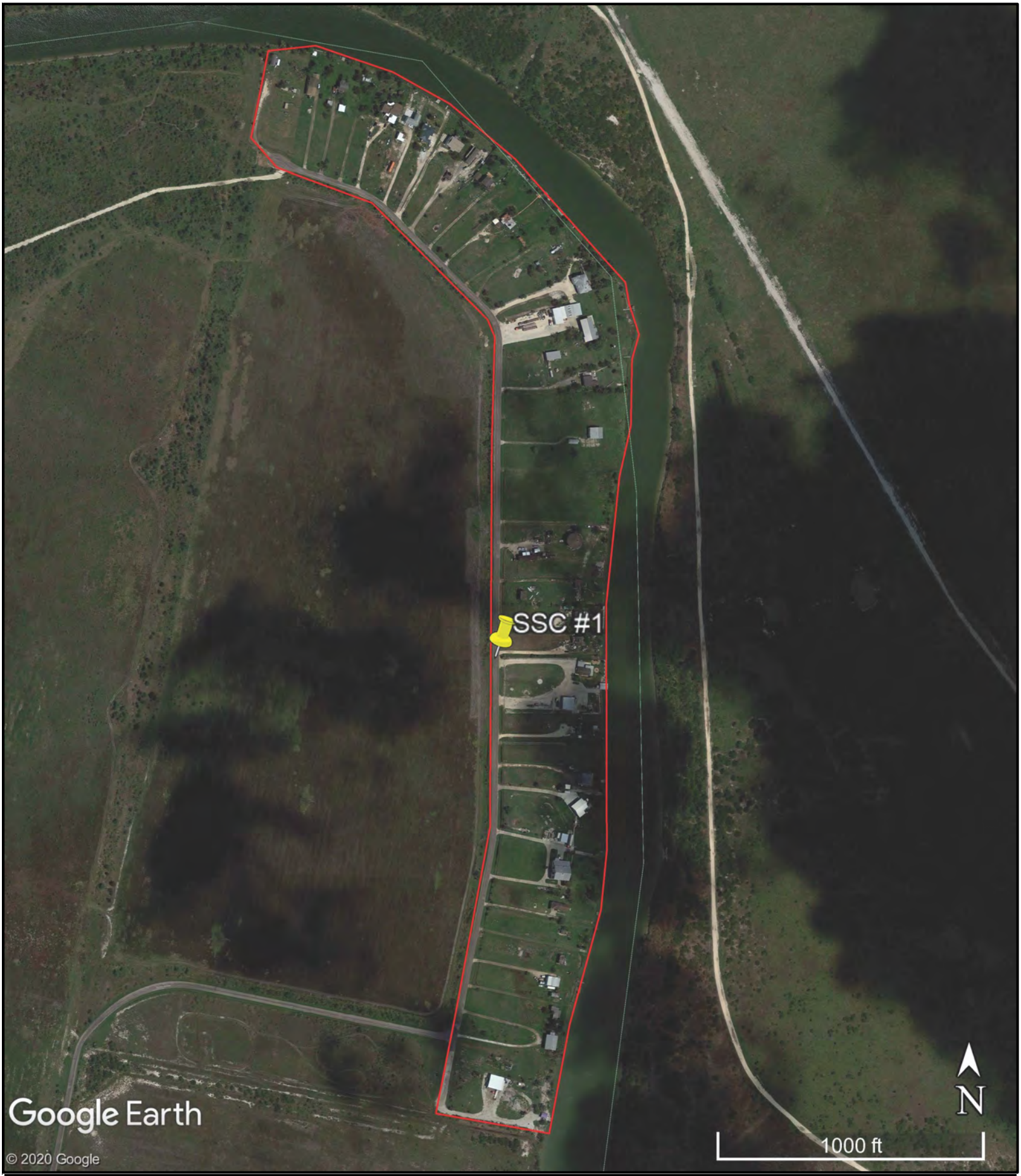
Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 2

Area 2 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

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Checked By:	TLD	Project Number:	16L0442C	Date:	03-26-20	1 of 1

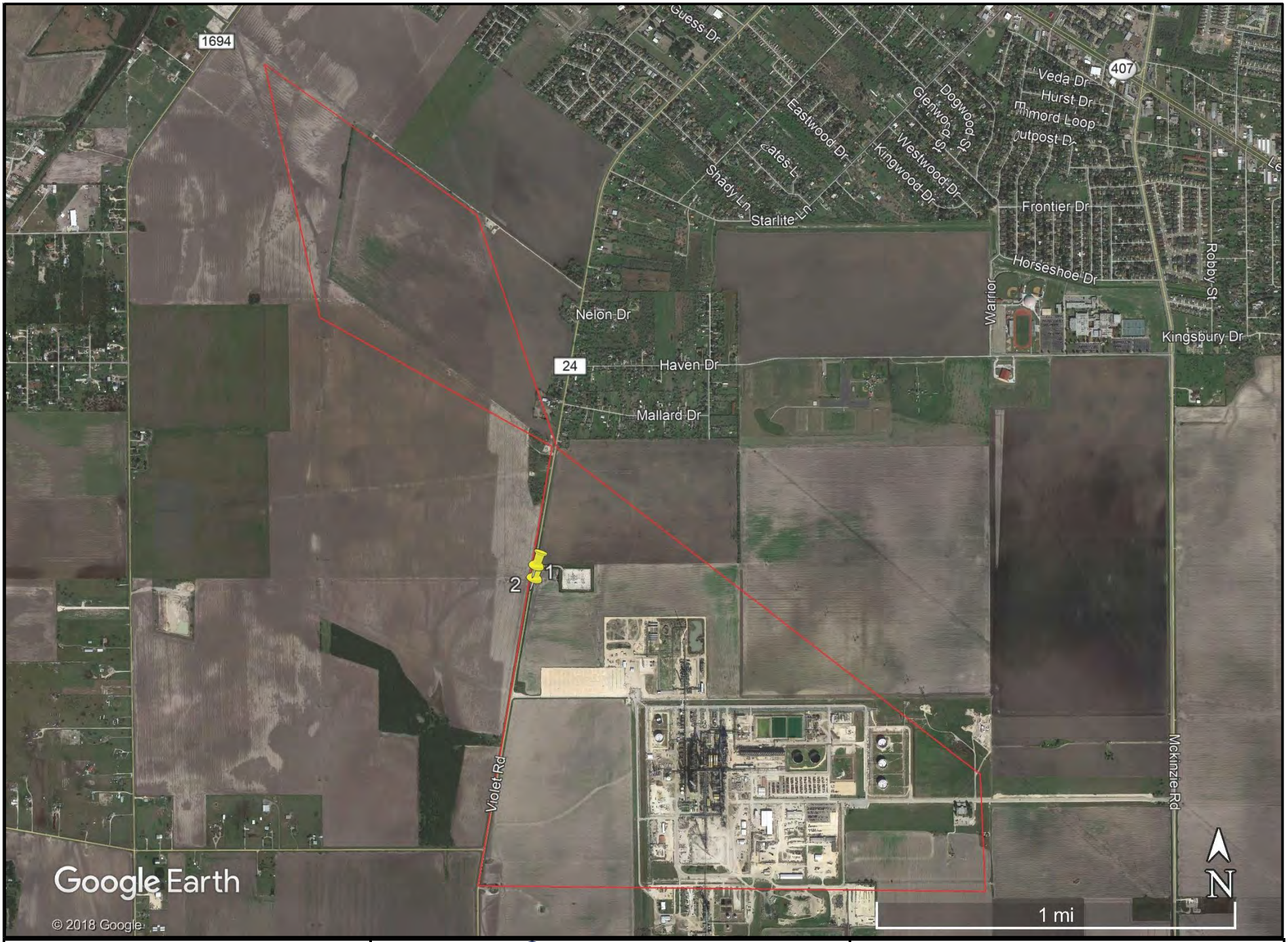
Detail Map of MS4 Area 3
Area 3 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 4
Area 4 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

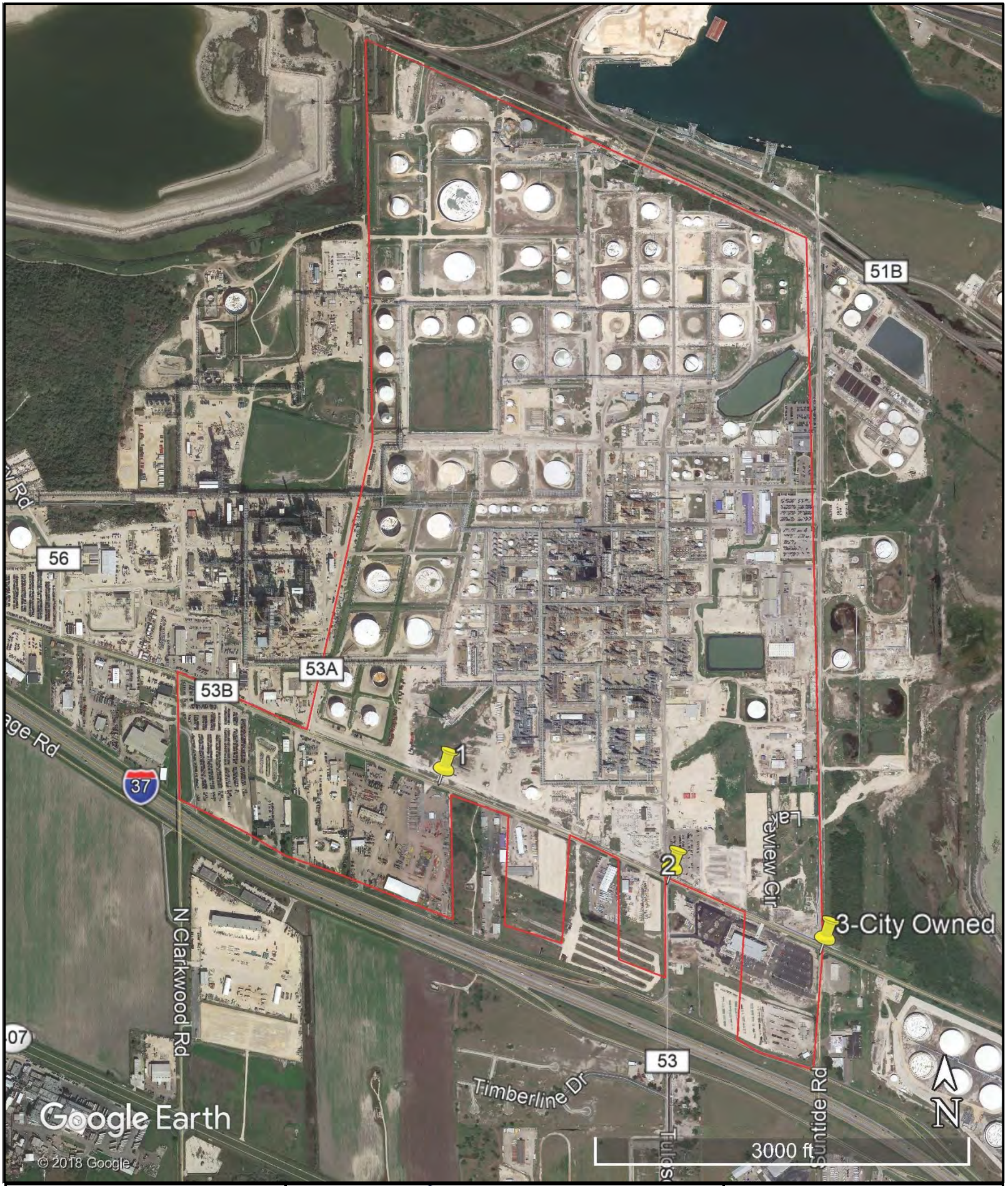
Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 5

Area 5 – Nueces County Unincorporated Area MS4
Nueces County, Texas

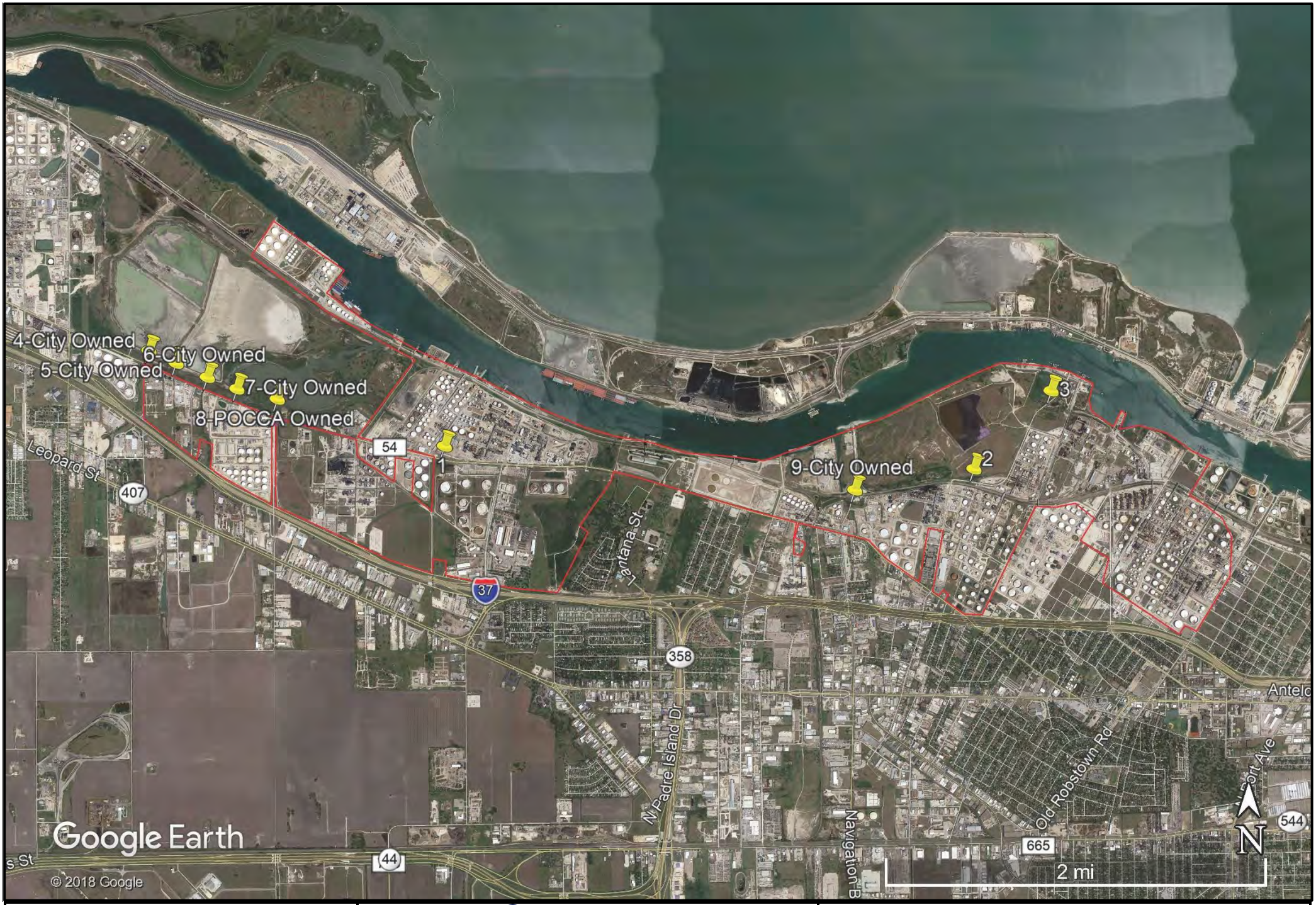


Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 6
Area 6 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 7

Area 7 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 8

Area 8 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Attachment 1
List of SWMP Updates

SWMP Update Log

Date	SWMP Update Description
11/4/2022	Added reference to TPDES Permit Number TXR040000 and added SWMP update log.
November 2023	Updated SWMP to address TCEQ technical review items.

Attachment 2
Notice of Intent

Notice of Intent (NOI) for Small Municipal Separate Storm Sewer Systems (MS4) authorized under TPDES Phase II MS4 General Permit TXR040000

IMPORTANT:

Use the INSTRUCTIONS to fill out each question in this form.

Once approved, your permit authorization can be viewed at: http://www.tceq.texas.gov/goto/wq-dpa

APPLICATION FEE:

You must pay the **$400** Application Fee to TCEQ for the application to be complete.

Payment and NOI must be mailed to separate addresses.

You can pay online at: http://www.tceq.texas.gov/goto/epay

Select Fee Type: GENERAL PERMIT MS4 PHASE II STORMWATER DISCHARGE NOI APPLICATION

Provide your payment information below, for verification of payment:

Mailed — Check/Money Order Number: Click here to enter text.

Check/Money Order Amount: Click here to enter text.

Name Printed on Check: Click here to enter text.

EPAY — Voucher Number: 425146

Is a copy of the Payment Voucher enclosed? ☒ Yes

One (1) copy of the NOI, Stormwater Management Program (SWMP) cover sheet, and SWMP MUST be submitted with the original NOI, SWMP cover sheet, and SWMP.

Is the copy attached? ☒ Yes

REASON FOR APPLICATION:

Select the reason you are submitting this application:

☐ New authorization

☒ Renewal of authorization number: TXR040054

Note: An authorization cannot be renewed after July 23, 2019

Section 1. OPERATOR (Applicant)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN 600335046

b) What is the exact Legal Name of the entity (applicant) applying for this permit?

Nueces County

c) Complete and attach a Core Data Form (TCEQ-10400) for this customer.

Section 2. ANNUAL BILLING CONTACT

The operator is responsible for paying the annual water quality fee. The annual fee will be assessed to permits active on September 1 of each year. TCEQ will send a bill to the address provided in this section. The operator is responsible for terminating the permit when it is no longer needed.

Provide the name and contact information of the billing contact.

Prefix (Mr. or Ms.): Mr.

First and Last Name: Juan A. Pimentel, P.E.

Title: Director of Public Works, County Engineer

Organization Name: Nueces County

Phone Number: (361) 888-0490

Fax Number: (361) 888-0485

Email: juan.pimentel@nuecesco.com

Mailing Address: 901 Leopard St., Suite 103

City, State, and Zip Code: Corpus Christi, Texas, 78401

Section 3. APPLICATION CONTACT

This is the person TCEQ will contact if additional information is needed about this application.

Provide the name and contact information of the application contact.

Prefix (Mr. or Ms.): Ms.

First and Last Name: Tara Ducrest

Title: Environmental Scientist

Organization Name: Hanson Professional Services Inc.

Phone Number: (361) 814-9900

Fax Number: (361) 814-4401

Email: tducrest@hanson-inc.com

Mailing Address: 4501 Gollihar

City, State, and Zip Code: Corpus Christi, Texas, 78411

Section 4. REGULATED ENTITY (RE) INFORMATION FOR SITE

a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN 105483853

b) Name of site as known by the local community:

Nueces County MS4

c) Name of the urbanized area(s) the Phase II MS4 is located within:

Corpus Christi, TX Urbanized Area

d) Provide a brief description of the regulated MS4 boundaries: *Example: Area within the City of XXXX limits that is located within the xxx urbanized area*:

Eight non-contiguous unincorporated areas in the north portion of Nueces County within the Corpus Christi, TX Urbanized Area

Section 5. GENERAL CHARACTERISTICS

a) Is this site located on Indian Country Lands?

☐ Yes, do not submit this form. You must obtain authorization through U.S. EPA Region 6.

☒ No, continue to item b

b) Has TCEQ formally "designated" the small MS4 as needing coverage under this general permit?

☐ Yes. Attach a copy of the documentation sent to the MS4 by TCEQ.

☒ No

c) Select the MS4 level, which is based on the population served within the urbanized area (UA) **based on the most recent Decennial Census at the time of issuance of the general permit.**

☐ **Level 1:** Traditional small MS4s with a population of less than 10,000.

☒ **Level 2:** Traditional small MS4s with a population of at least 10,000 but less than 40,000.

Non-traditional MS4s: This level also includes all non-traditional small MS4s regardless of population unless the non-traditional MS4 can demonstrate that it meets the criteria for a waiver from permit coverage. *Examples of non-traditional small MS4s include counties, drainage districts, transportation entities, military bases, universities, colleges, correctional institutions, municipal utility districts, and other special districts.*

☐ **Level 3:** Traditional small MS4s with a population of at least 40,000 but less than 100,000.

☐ **Level 4:** Traditional small MS4s with a population of 100,000 or more.

d) What is the estimated current population served by your MS4 (regulated area?)

1,456 People

e) Is the MS4 part of a coalition?

☐ Yes

☒ No

f) If yes, list the entity names of the coalition members responsible for implementation of the SWMP *and* their unique TXR04#### number.

1. N/A TXR04 N/A
2. N/A TXR04 N/A
3. N/A TXR04 N/A
4. N/A TXR04 N/A
5. N/A TXR04 N/A
6. N/A TXR04 N/A

If needed, add a copy of this page to add more entities.

g) What is your annual reporting year?

☒ Calendar year

☐ Small MS4 General Permit year

☐ MS4 Fiscal year – What is the last month and day of the fiscal year? N/A

h) Stormwater Management Program (SWMP)

1. I certify that the SWMP submitted with this NOI has been developed according to the provisions of the Small MS4 General Permit TXR040000. ☒ Yes
2. I certify that the SWMP Cover Sheet is completed and attached to the front of the SWMP. ☒ Yes
3. Have the program elements in the previous SWMP been re-assessed and modified and new program elements been developed and implemented, as necessary?

   ☒ Yes

   ☐ No. This facility did not have a previous authorization.
4. Is the optional 7th Minimum Control Measure (MCM) for Municipal Construction Activities selected and included with the attached SWMP?

   ☒ No. Continue to Question 5.

   ☐ Yes.

   If yes, is MCM 7 limited to the regulated area within the urbanized area?

   ☐ Yes. Continue to Question 5.

   ☐ No

   If No, then MCM 7 is included in the geographic area or boundary outside of the urbanized area. Note: *In this case, you must incorporate the entire area (urbanized and non-urbanized areas) in the SWMP and implement all MCMs 1-7*

in the urbanized and non-urbanized areas.

5. Provide the name and contact information of the person responsible for implementing or coordinating implementation of the SWMP.

   Prefix (Mr. or Ms.): Mr.

   First and Last Name: Juan A. Pimentel, P.E.

   Title: Director of Public Works, County Engineer

   Organization Name: Nueces County

   Phone Number: (361) 888-0490

   Fax Number: (361) 888-0485

   Email: juan.pimentel@nuecesco.com

   Mailing Address: 901 Leopard St., Suite 103

   City, State, and Zip Code: Corpus Christi, TX 78401

i) Discharge Information

1. What is the name of the waterbody(ies) receiving stormwater discharges from the MS4? Nueces River Tidal, Nueces River below Lake Corpus Christi,Corpus Christi Bay, Nueces Bay, Corpus Christi Inner Harbor, and Oso Bay
2. What is the classified segment number(s) that the discharges will eventually reach? 2101, 2102, 2481, 2482, 2484, 2485

   Does the small MS4 discharge directly or indirectly into the classified segment(s)?

   ☒ Directly 2101 – Direct

   ☒ Indirectly 2102, 2481, 2482, 2484, 2485– Indirect

3. Are any of the waterbody(ies) receiving discharges from the small MS4 identified as impaired waters (Category 4 or 5) in the *Texas Integrated Report of Surface Water Quality*?

   ☒ Yes

   What is the name of the impaired waterbody(ies) receiving the discharge from the small MS4? Nueces Bay /Corpus Christi Inner Harbor / Oso Bay

   What is/are the pollutants(s) of concern? Nueces Bay - Copper in water / Corpus Christi Inner Harbor - Copper in water / Oso Bay - Bacteria in water (recreation use) and Depressed dissolved oxygen in water

   ☐ No

4. Does the impaired water body(ies) have a TMDL (Category 4 waterbody)?

   ☒ Yes

   What is/are the pollutants with a TMDL? Oso Bay - Bacteria

   ☐ No

5. Does your MS4 discharge into any other MS4 entity's jurisdiction prior to discharge into water in the state?

   ☒ Yes

   What is the name of the MS4 operator? City of Corpus Christi

   ☐ No

6. Edwards Aquifer Rule

   Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, within the Contributing Zone within the Transition Zone, or zero to ten (0 to 10) miles upstream of the Recharge Zone of the Edwards Aquifer?

   ☐ Yes – **NOTE: A copy of the agency approved Water Pollution Abatement Plan (WPAP) required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be either included or referenced in the SWMP.**

   ☒ No

j) Public Participation Process

1. Provide the name and contact information of the person responsible for publishing notice of the executive director's preliminary determination on the MS4's NOI and SWMP?

   Prefix (Mr. or Ms.): Ms.

   First and Last Name: Tara Ducrest

   Title: Environmental Scientist

   Company: Hanson Professional Services Inc.

   Phone Number: (361) 814-9900

   Fax Number: (361) 814-4401

   Email: tducrest@hanson-inc.com

   Mailing Address: 4501 Gollihar

   Internal Routing (Mail Code, Etc.): Click here to enter text.

   City, State, and Zip Code: Corpus Christi, TX 78411

2. Provide the name and location of the public place where copies of the NOI, SWMP, Small MS4 General Permit TXR040000, and general permit fact sheet may be viewed and copied by the public?

   Name of Public Place: Nueces County Courthouse

   Address of Public Place: 901 Leopard St., Suite 103, Corpus Christi, TX 78401

   County of Public Place: Nueces County

3. Provide the address for the website where the MS4's SWMP and annual report will be posted. http://www.nuecesco.com/county-services/public-works/environmental-enforcement

   ☐ Do not have a website.

Section 6. CERTIFICATION

I certify that I have obtained a copy and understand the terms and conditions of the Phase II (Small) MS4 General Permit TXR040000 issued January 24, 2019.

☒ Yes

I certify that the small MS4 qualifies for coverage under the Phase II (Small) MS4 General Permit TXR040000.

☒ Yes

I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.

☒ Yes

I understand that authorizations active on September 1st of each year will be assessed an Annual Water Quality Fee.

☒ Yes

Operator Certification

Operator Signatory Name: Barbara Canales

Operator Signatory Title: County Judge

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature (use blue ink): _____ Date: _____

STORMWATER MANAGEMENT PROGRAM (SWMP) COVER SHEET

This cover sheet MUST be attached to the front of the SWMP.

Operator

Operator name: Nueces County

Required Program Elements

The SWMP needs to include:

- BMPs and measurable goals that are clear, specific, and measurable,
- Annual Reporting Year selected, and
- Estimated population served by the MS4.

Legal Authorities

Include in the SWMP the list of local legal authorities (i.e., ordinance, rule) that the MS4 has adopted to implement any of the MCMs. List all and what MCM they each cover.

Minimum Control Measures

For each MCM, complete the table by entering the page number where the required element can be found in the SWMP

MCM 1: Public Education, Outreach, and Involvement

Table 1: Required Elements for MCM 1

MCM 1 Required Elements	SWMP page number
SWMP includes a stormwater education and outreach program to educate public employees, business, and the general public about hazards associated with the illegal discharges and improper disposal of waste and about the impacts stormwater can have on water quality, and steps they can take to reduce pollutants in stormwater	11
Clearly define the goals and objectives of the program based on high-priority community-wide issues	11
Identify the target audiences	12
Develop or use appropriate educational material	12
Procedures to distribute educational material	12
Make the educational material available to the target audience at least annually	12

MCM 1 Required Elements	SWMP page number
Post the SWMP and annual reports on the MS4's website, if the MS4 has a website	11
Include the MS4's website address where the SWMP and annual reports will be found, if the MS4 has a website	11
SWMP includes a program that complies with state and local public notice requirements	12
Include public input in the implementation of the program	13
Include opportunities for citizen to participate in implementation of control measures	13
Ensure the public can easily can find information about the SWMP.	11
SWMP lists Best Management Practices (BMPs) used to fulfill this MCM. Examples of possible BMPs could be stream-clean-ups, storm drain stenciling, volunteer water quality monitoring, brochures, billboards, and websites.	Table 1 (p.6), 11-13
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	11-13
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	11-13

MCM 2: Illicit Discharge Detection and Elimination

Table 2: Required Elements for MCM 2

MCM 2 Required Elements	SWMP page number
Description of the program that will be used to detect, investigate and eliminate illicit discharges. The program includes a plan to detect and address illicit discharges, including illegal dumping to the MS4 system.	16
MS4 map: The map includes: • Location of all small MS4 outfalls operated by the MS4 and that discharge into waters of the U.S.; • Location and name of all surface waters receiving discharge from the MS4s outfalls; • For Level 3 and 4 small MS4s: Location of MS4 owned or operated facilities and stormwater controls; and • For Level 4 small MS4s: Location of priority areas.	16, Figure 1, and Figure 2
Methods for informing and training MS4 field staff	17
Procedures for tracing the source of an illicit discharge	18

MCM 2 Required Elements	SWMP page number
Procedures for removing the source of the illicit discharge	18
Procedures to facilitate public reporting of illicit discharges or water quality impacts associated with discharges into or from the small MS4	17, 18
Procedures for responding to illicit discharges and spills	18
Procedures for inspections in response to complaints	19
For Level 2, 3, and 4 small MS4: Procedures to prevent and correct leaking on-site sewage disposal systems	20
For Level 3 and 4 small MS4s: Procedures for follow-up investigation to verify that the illicit discharge has been eliminated	N/A
For Level 4 small MS4s: Procedures for identifying and creating a list of priority areas within the small MS4s likely to have illicit discharges	N/A
For Level 4 small MS4s: Procedures for a dry weather field screening program to assist in detecting and eliminating illicit discharges to the small MS4. Dry weather field screening consists of (1) field observations and (2) field screening.	N/A
For Level 4 small MS4s: Procedures to reduce the discharge of floatables in the small MS4	N/A
SWMP lists BMPs used to fulfill this MCM. Examples of possible BMPs could be hazardous materials disposal opportunities, inspections of the storm sewer system, and dye testing.	Table 1 (p. 6, 7), 16-20
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	16-20
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	16-20

MCM 3: Construction Site Stormwater Runoff Control

Table 3: Required Elements for MCM 3

MCM 3 Required Elements	SWMP page number
Program requires operators of construction sites one acre and greater (including larger common plan) to select, install, implement, and maintain stormwater control measures	24
Description of ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under state and local law	24-27

MCM 3 Required Elements	SWMP page number
Program requires construction site operators to implement BMPs for erosion and sediment control	Alternate method (TXR040000, Part III, Section B 3. (b) (2) d.)
Program requires construction site operators to have procedures for initiating and completing soil stabilization measures	Alternate method (TXR040000, Part III, Section B 3. (b) (2) d.)
Program requires construction site operators to implement BMPs to control pollutants from equipment and vehicle washing and other wash waters	Alternate method (TXR040000, Part III, Section B 3. (b) (2) d.)
Program requires construction site operators to implement BMPs to minimize exposure to stormwater of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials	Alternate method (TXR040000, Part III, Section B 3. (b) (2) d.)
Program requires construction site operators to implement BMPs to minimize the discharge of pollutants from spills and leaks.	Alternate method (TXR040000, Part III, Section B 3. (b) (2) d.)
Program ensures that the construction site has developed a stormwater pollution prevention plan in accordance with the TPDES Construction General Permit TXR150000	24
Program prohibits illicit discharges such as wash out wastewater, fuels, oils, soaps, solvents, and dewatering activities	25
Procedures for construction site plan review to consider water quality impacts	25
Procedures for construction site inspections and enforcement of control measures, to the extent allowable under state and local law	26
Procedures for receipt and consideration of information submitted by the public	26
Procedures for MS4 staff training	24
For Level 3, and 4 small MS4s: Procedures to develop and maintain an inventory of all permitted active public and private construction sites greater than one acre (and sites that are less than one acre if part of larger common plan of development or sale)	N/A
SWMP lists BMPs used to fulfill this MCM. Examples may include: notification to discharger of responsibilities under TPDES CGP; hire staff to review construction site plans; provide a web page for public input on	Table 1 (p.7, 8), 24-27

MCM 3 Required Elements	SWMP page number
construction activities; perform site inspections and enforcement; provide education and training for construction site operators; and mechanism to prohibit discharges into MS4 where necessary.	Table 1 (p.7), 23-25
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	23-25
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	23-25

MCM 4: Post Construction Stormwater Management in New Development and Redevelopment

Table 4: Required Elements for MCM 4

MCM 4 Required Elements	SWMP page number
Description of a program that will be developed, implemented and enforced, to control stormwater discharges from private and public new development and redeveloped sites that discharge into the small MS4 that disturb one acre or more (and sites that disturb less than one acre that are part of a larger common plan of development or sale)	29
Description of ordinance or other regulatory mechanism that is in place or planned which will regulate discharges from new development and redevelopment projects	29
Establish, implement, and enforce a requirement that owners or operators of new development and redeveloped sites design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality	30
Procedures to document and maintain records of enforcement actions	29
Procedures to ensure long-term operation and maintenance of post construction stormwater control measures	30
Operation and maintenance of post construction stormwater control measures is documented	30
For Level 4 small MS4s: Develop and implement an inspection program to ensure that all post construction stormwater control measures are operating correctly and are being maintained. Inspections must be documented	N/A
SWMP lists BMPs used to fulfill this MCM. Examples may include: local ordinance in place or planned; guidance document for developers to use; specific BMPs established for particular watersheds; list of appropriate BMPs provided to operators; elimination of curbs and gutters; incentives	Table 1 (p.8), 29-31

MCM 4 Required Elements	SWMP page number
for use of permeable choices, such as porous pavement; requirements for wet ponds or other BMPs for certain size sites; and xeriscaping.	Table 1 (p.8), 29-31
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	29-31
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	29-31

MCM 5: Pollution Prevention and Good Housekeeping for Municipal Operations

Table 5: Required Elements for MCM 5

MCM 5 Required Elements	SWMP page number
Description of an operation and maintenance (O&M) program, including an employee training component, to reduce/prevent pollution from municipal activities and municipally owned areas included but not limited to park and open space maintenance; street, road, or highway maintenance; fleet and building maintenance; stormwater system maintenance; new construction and land disturbances; municipal parking lots; vehicle and equipment maintenance and storage yards; waste transfer stations; and salt/sand storage locations	34
Develop and maintain an inventory of facilities and stormwater controls that are owned or operated by the MS4	34
Procedures to inform or train staff involved in implementing pollution prevention and good housekeeping practices. Maintain training attendance records	37
Procedures to remove and properly dispose of waste from the MS4	37
Contractors hired by the MS4 must be required to comply with operating procedures. Develop contractor oversight procedures	39
Evaluate O&M activities for their potential to discharge pollutants in stormwater for road and parking lot maintenance, bridge maintenance, cold weather operations, right-of-way maintenance, etc.	40
Identify pollutants of concern that could be discharged from the O&M activities	40
Develop and implement pollution prevention measures that will reduce discharge of pollutants from O&M activities	40

MCM 5 Required Elements	SWMP page number
Conduct inspections of pollution prevention measures and maintain inspection log	36
Procedures for inspecting and maintaining structural controls	35
For Level 3 and 4 small MS4s: Develop and implement an O&M program to reduce the collection of pollutants in catch basins and other surface structures in the storm sewer system	N/A
For Level 3 and 4 small MS4s: Develop a list of potential problem areas in the storm sewer system for increased inspection (for example, areas with recurring illegal dumping)	N/A
For Level 3 and 4 small MS4s: Implement an O&M program to reduce discharge of pollutants from roads that includes at least a street sweeping and cleaning program, or inlet protection. The program includes an implementation schedule and a waste disposal procedure	N/A
For Level 3 and 4 small MS4s: Assess its facilities for their potential to discharge pollutants into stormwater and identify high priority facilities that have a high potential to generate stormwater pollutants. At a minimum, facilities include the MS4s maintenance yards, hazardous waste facilities, fuel storage locations, and any other facilities at which chemicals or other materials have a high potential to be discharged in stormwater. Document the results of the assessments	N/A
For Level 3 and 4 small MS4s: Develop facility specific stormwater management Standard Operation Procedures for high priority facilities	N/A
For Level 3 and 4 small MS4s: MS4 implements stormwater controls at high priority facilities that address good housekeeping; de-icing and anti-icing storage; fueling operations and vehicle maintenance; equipment and vehicle washing	N/A
For Level 3 and 4 small MS4s: Develop and implement an inspection program that includes high priority facilities	N/A
For Level 4 small MS4s: Develop an application and management program for pesticides, herbicides, and fertilizers used at public open spaces. Implement the following: educational activities, permits, etc for applicators and distributors; encourage of non-chemical solutions for pest management; develop schedules that minimizes discharge of pollutants; ensure collection and proper disposal of unused pesticides, herbicides, and fertilizers	N/A
For Level 4 small MS4s: Evaluate flood control projects. Design, construct, and maintain new flood control structures to provide erosion prevention and pollutant removal from stormwater. Retrofitting of existing structural flood control devices is implemented to the maximum extent practicable (MEP)	N/A

MCM 5 Required Elements	SWMP page number
SWMP lists BMPs used to fulfill this MCM. Examples may include: BMPs which address fleet vehicle maintenance/washing; BMPs which address parking lot and street cleaning; catch basin and storm drain system cleaning; landscaping and lawn care (e.g. xeriscaping); waste materials management; road salt application and storage practices; used oil recycling; pest management practices; fire training facilities; BMPs which address roadway and bridge maintenance; golf course maintenance/waste disposal; disposal of cigarette butts; and park maintenance (e.g., providing trash bags).	Table 1 (p.8-9), 34-41
SWMP includes measurable goals that are clear, specific, and measurable, and the method of measurement, for addressing stormwater quality	34-41
SWMP has been fully implemented, or includes a schedule of implementation not to exceed five (5) years from the general permit issuance date of January 24, 2019	34-41

MCM 6: Industrial Stormwater Sources

Table 6: Required Elements for MCM 6

MCM 6 Required Elements	SWMP page number
For Level 4 MS4 only: Identify and control industrial stormwater sources that at least includes the MS4's landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; and facilities that are subject to Emergency Planning and Community Right-to-Know Act (EPCRA).	N/A
For Level 4 MS4 only: Procedures for inspecting and implementing control measures for discharges from industrial stormwater sources.	N/A

Optional MCM 7: Municipal Construction Activities

This MCM is only applicable where the small MS4 has selected to be the construction site operator for their municipal construction activities. This MCM provides an alternative to the MS4 operator seeking discharge authorization under the Construction Stormwater General Permit TXR150000.

Table 7: Required Elements for MCM 7

MCM 7 Required Elements	SWMP page number
Description of how municipal construction activities will be conducted so as to take into consideration local conditions of weather, soils, and other site specific considerations	N/A

MCM 7 Required Elements	SWMP page number
Description of the area that this MCM will address and where the MS4 operator's municipal construction activities are covered (e.g. within the boundary of the urbanized area, the corporate boundary, a special district boundary, an extra territorial jurisdiction, or other similar jurisdictional boundary)	N/A N/A
If the area included in this MCM includes areas outside of the UA, then all MCMs (MCM 1 through MCM 7) will be implemented over those additional areas as well	N/A
Description of how contractor activities will be supervised or overseen to ensure that the Stormwater Pollution Prevention Plan (SWP3) requirements are properly implemented at the construction site(s); or how the MS4 operator will make certain that contractors have a separate authorization for stormwater discharges if needed	N/A
General description of how a construction SWP3 will be developed for each municipal construction site	N/A
Records of municipal construction activities authorized under this optional MCM	N/A

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	425146
Trace Number:	582EA000351477
Date:	07/09/2019 04:00 PM
Payment Method:	CC - Authorization 0000029085
Amount:	$400.00
Fee Type:	GENERAL PERMIT MS4 PHASE II STORM WATER DISCHARGE NOI APPLICATION
ePay Actor:	Yolanda Moreno

Payment Contact Information

Name:	Yolanda Moreno
Company:	Nueces County
Address:	901 Leopard Street Rm 103, Corpus Christi, TX 78401
Phone:	361-888-0490

Site Information

Site Name:	NUECES COUNTY
Site Address:	NUECES COUNTY MS4 AREAS, CORPUS CHRISTI, TX 78401
Site Location:	8 NON-CONTIGUOUS UNINCORPORATED AREAS IN THE N PORTION OF N C WITHIN CC TX

Customer Information

Customer Name:	NUECES COUNTY A C CN600335046
Customer Address:	901 LEOPARD STREET RM 103, CORPUS CHRISTI, TX 78401
State Tax ID:	17460005857

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided.)*

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.)*

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN **600335046**		RN **105483853**

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	05/10/2019

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Nueces County	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
N/A	N/A	74600058	N/A

11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☒ County ☐ Federal ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:

12. Number of Employees	13. Independently Owned and Operated?
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher	☐ Yes ☒ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following:*

☐ Owner ☐ Operator ☒ Owner & Operator

☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:								
	901 Leopard St.							
	Suite 103							
	City	Corpus Christi	State	TX	ZIP	78401	ZIP + 4	3602

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	juan.pimentel@nuecesco.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(361) 888-0490		(361) 888-0485

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Nueces County MS4

23. Street Address of the Regulated Entity: *(No PO Boxes)*	N/A							
	City		**State**		**ZIP**		**ZIP + 4**	
24. County	Nueces							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Eight non-contiguous unincorporated areas in the north portion of Nueces County within the Corpus Christi, TX Urbanized Area

26. Nearest City	**State**	**Nearest ZIP Code**
Corpus Christi	TX	78401

27. Latitude (N) In Decimal:	27.827429°	**28. Longitude (W) In Decimal:**	-97.527067°

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
27	49	38.74	97	31	37.44

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
9111	N/A	921110	N/A

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

County Government

34. Mailing Address:	**901 Leopard St.**							
	Suite 103							
	City	**Corpus Christi**	**State**	**TX**	**ZIP**	**78401**	**ZIP + 4**	**3602**

35. E-Mail Address:	**juan.pimentel@nuecesco.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(361) 888-490		**(361) 888-485**

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Tara Ducrest	**41. Title:**	Env. Scientist (Hanson Pro. Serv)

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(361) 814-9900	1294	(361) 814-4401	tducrest@hanson-inc.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Nueces County	**Job Title:**	County Judge	
Name*(In Print)* :	Barbara Canales		**Phone:**	(361) 888-0444
Signature:			**Date:**	8/1/19

Attachment 3

SWMP and Annual MS4 Report Website Posting Verification Form

Nueces County Unincorporated Areas SWMP and Annual MS4 Report Website Posting Verification Form

Date	Website	SWMP or Annual MS4 Report Verified as Posted?
10/18/2023	https://www.nuecesco.com/county-services/public-works/environmental-enforcement	SWMP posted

Attachment 4

Educational Brochures and Distribution Log

Nueces County Public Outreach

STORMWATER BASICS

The Facts:

Where Does It Go?

- Rain water flows from the street into storm ditches and drains directly into the nearest stream, river or bay.

The Problem.

- Illegal dumping is wrong. Stormwater mixes with oil, grease, fertilizers, pesticides, pet waste, debris and litter which can pollute our area water.

The Solution.

- Do not wash contaminants, debris or litter into your storm drain or ditch. It is against state law to install unpermitted discharges into Nueces County storm ditches. Together, we can keep our water clean!

Produced by the Nueces County Department of Public Works. Contact us at 361-888-0490.

County of Nueces – Department of Public Works

Nueces County Department of Public Works
(361) 888-0490
901 Leopard, Suite 103 Corpus Christi, Texas 78401
www.nuecesco.com/county-services/public-works

In this newsletter…

- Stormwater Basics
- Pollution Prevention

Stormwater management plays an important part in keeping pollutants from entering water bodies in Nueces County, including Nueces River, Oso Creek, Oso Bay, and Corpus Christi Bay. As a starting point for managing stormwater runoff, Nueces County has implemented a Storm Water Management Program (SWMP). The SWMP calls for Nueces County to encourage public involvement and participation in regional stormwater issues. This newsletter is intended to reach out to the public and offer an opportunity for citizens to provide input on stormwater issues in their area. After reading this newsletter, please contact the Nueces County Public Works Department with any comments or questions you may have on stormwater issues.

Stormwater Basics

Introduction

Stormwater runoff results when precipitation flows across the ground and pavement. Runoff can be absorbed into the ground, flow into storm drains that lead to water bodies, or drain directly into water bodies. Management of stormwater is a challenging task and involves understanding the conveyances that allow stormwater to reach water bodies. Within the County, there is a system of roads, basins, curbs, gutters, ditches, channels, and storm drains that is collectively known as a small Municipal Separate Storm Sewer System (MS4). Stormwater is conveyed through the MS4 and eventually flows into nearby water bodies. In Nueces County, these include Nueces River, Nueces Bay, Corpus Christi Bay, Oso Creek, Oso Bay, and many smaller creeks and streams.

Stormwater Pollutants

As stormwater flows through the MS4, debris and particles containing pollutants can be swept along. Pollutants caught up in stormwater runoff can include oil, grease, fertilizer, pesticides, herbicides, animal waste, metals, and sediment. Eventually, these pollutants can reach the creeks, rivers, and bays of Nueces County. Fish and other aquatic species can be negatively affected when the water bodies that they live in receive polluted runoff. The polluted water bodies can also adversely affect animals that rely on them as a source of drinking water. Humans can be negatively affected when they use these polluted water bodies for recreation. For communities that use surface water bodies as a source of drinking water, it can also create additional difficulties and costs associated with purifying the water.

Stormwater Debris		Stormwater also sweeps away debris and trash that is in its path. This can include plastic items such as cups, straws, bags, bottles, six pack rings, and paper items such as fast food containers and newspapers. Accumulated tree trimmings and yard clippings can be caught up in the stormwater runoff, or may even prohibit or restrict efficient drainage, which may lead to localized flooding.

Stormwater Pollution Prevention

Introduction		There are many simple things that can be done to prevent pollution from entering nearby creeks, rivers, and bays. By using good housekeeping practices at home and at work, the amount of pollution caught up in stormwater runoff can be decreased substantially.
Good Housekeeping Practices		Some simple ways to prevent pollution from entering water bodies include: • Pick up and properly dispose of pet waste • Properly dispose of used oil and paint • Wipe the lids of containers once finished using and before storing outdoors • Make sure the lid is closed on trash cans and dumpsters • Use proper amounts of fertilizer, pesticides, and herbicides • Store containers of items such as oil and paint in covered areas • Do not put anything, including grass clippings, down storm drains • Fix leaking vehicles or place drip catch pans underneath • Properly dispose of scrap metal • Plant appropriate vegetation to prevent sediment from being washed away during rain storms • Ensure septic systems are maintained and working properly • Tell friends and family about the effects of pollutants on creeks, rivers, and bays and encourage them to use these simple good housekeeping practices

Please contact the Department of Public Works at (361) 888-0490 regarding questions, comments, and requests for additional information.

Stormwater Newsletter – Trash in Stormwater

Nueces County Department of Public Works

Nueces County Department of Public Works **901 Leopard, Suite 103 Corpus Christi, Texas 78401**
(361) 888-0490 **www.nuecesco.com/county-services/public-works**

In this newsletter…

- Stormwater Runoff
- Trash in Stormwater
- Why is Trash a Problem?
- What can citizens do?

This newsletter is intended to reach out to the public and offer an opportunity for citizens to provide input on stormwater issues in their area. After reading this newsletter, please contact the Nueces County Public Works Department with any comments or questions you may have on stormwater issues.

Stormwater Runoff

Stormwater runoff comes from rain flowing over surfaces such as rooftops, paved streets, sidewalks, parking lots, lawns, and bare soil. Runoff collects and transports floatables, soil, pet waste, pesticides, fertilizers, oil and grease, litter, and other pollutants to nearby water bodies, such as Nueces River, Oso Creek, Oso Bay, and Corpus Christi Bay.

Trash in Stormwater

Items that have been intentionally or accidentally discarded in drainage areas and are windblown or caught up in stormwater runoff can be washed out into waterways. Several studies conclude that urban runoff is the dominant source of trash conveyed by storm sewers systems to waterways.

In urban areas, storm sewer systems designed to prevent flooding can unintentionally move trash directly into nearby waterways. The amount and type of trash appears to be dependent on the surrounding land use. Trash from residential areas typically includes Styrofoam cups, plastic bottles, cigarette butts, leaves, grass clippings, and other trash.

Why is Trash a Problem and How Does it get into Waterways?

Why is Trash a Problem?

- Trash in waterways causes significant water quality problems.
- Floatable trash can inhibit growth of aquatic vegetation and decrease habitats for fish and other living organisms.
- Trash poses a hazard for swimmers, surfers, boaters, and fishermen.
- Wildlife can mistake plastic and other trash for food or become entangled in floating trash.
- Settled trash can become a source of sediment contamination.

How Does Trash get into Waterways?

- Stormwater or wind causes trash to enter waterways or storm drains
- Common sources of trash include: outdoor events, fast food restaurants, convenience stores, public transit stops and stations, spills from trash bins on collection day, garbage trucks, and uncovered truck beds
- Illegal dumping on-land or into waterways

What Can Citizens Do?

Activities that can be taken to reduce trash in stormwater include:

- Recycle or dispose of trash properly; never dispose of anything down a storm drain.
- Pick up trash that may have fallen out of trash bins during pickup service.
- Pick up trash when visiting a park or beach.
- Use reusable bags for shopping trips.
- Purchase fewer disposable goods.
- Encourage local governments to install trash capture devices.
- Organize a community trash cleanup day.

Please contact the Department of Public Works at (361) 888-0490 regarding questions, comments, and requests for additional information.

County of Nueces – Department of Public Works

Nueces County Department of Public Works
(361) 888-0490
901 Leopard, Suite 103 Corpus Christi, Texas 78401
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In this newsletter…

- Excess Nutrients and Water Quality
- Actions to Reduce Nutrients in Stormwater

Stormwater management plays an important part in keeping pollutants from entering water bodies in Nueces County, including Nueces River, Oso Creek, Oso Bay, and Corpus Christi Bay. As a starting point for managing stormwater runoff, Nueces County has implemented a Storm Water Management Program (SWMP). The SWMP calls for Nueces County to encourage public involvement and participation in regional stormwater issues. This newsletter is intended to reach out to the public and offer an opportunity for citizens to provide input on stormwater issues in their area. After reading this newsletter, please contact the Nueces County Public Works Department with any comments or questions you may have on stormwater issues.

Excess Nutrients and Water Quality

Introduction

Nutrients, such as nitrogen and phosphorus, are vital to plants and ecosystems, but when present in excess they can lead to poor water quality. In urban settings where a large amount of the ground surface is impervious, fewer nutrients can infiltrate the ground and instead flow into streams, rivers, and bays causing an imbalance within these natural systems. Nutrients come from sources such as lawn and crop fertilizers, pet waste, sewer systems, septic systems, soaps, and detergents. Excessive fertilization of lawns is one of the most significant causes of water-quality impairment in the United States.

Nutrient Effects on Streams

When excess nutrients are caught up in stormwater they are conveyed to nearby streams and other water bodies where they can have a harmful effect on water quality and aquatic life.

Nutrients encourage and support the growth of algae, Cyanobacteria, and other types of aquatic plants which can cause eutrophication (nutrient enrichment) of waterways. When conditions are favorable, algae can rapidly multiply causing blooms that can impair beneficial uses of water bodies. Significant increases in algae affect water quality, food resources and habitat, and decrease the oxygen that fish and other aquatic life need to survive. Some algae are also toxic and can make people and animals sick, in addition to contaminating drinking water sources, resulting in higher treatment costs. Finally, nutrient pollution can make recreational activities, such as swimming and boating, unsafe or undesirable.

Actions to Reduce Nutrients in Stormwater

What can be done?

Actions that can be taken to reduce nutrients in stormwater include the following:

1. Pull weeds by hand or with tools instead of using weed and feed products for your entire lawn. If you decide to use a weed killer, spot spray just the weed, and spray when it isn't windy and when rain isn't predicted. Fertilizers applied immediately before a rain will not be absorbed by the plants and will be washed away by the rain.
2. Contact your local Cooperative Extension Service (Texas A&M Agrilife Extension Nueces County Office – (361) 767-5223) and test your soil to determine if your soil is nutrient deficient before applying fertilizer.
3. Consider utilizing organic fertilizers with low or no phosphates.
4. When doing yard work, avoid blowing grass clippings, leaves, and other organic matter into the street, where they wash into storm sewers that drain to streams, rivers, and bays.
5. Install and maintain septic systems and drainfields properly.
6. Take a bag when walking your dog and pick up after your pets in the park, on the streets, and at home.
7. Take your car to a car wash facility that treats and recycles wash water. If you must wash cars on your property, use phosphorus free detergents.

Please contact the Department of Public Works at (361) 888-0490 regarding questions, comments, and requests for additional information.

Stormwater Newsletter – Household Hazardous Waste in Stormwater

Nueces County Department of Public Works

Nueces County Department of Public Works **901 Leopard, Suite 103 Corpus Christi, Texas 78401**
(361) 888-0490 **www.nuecesco.com/county-services/public-works**

In this newsletter…

- Stormwater Runoff
- Household Hazardous Waste
- Why is HHW a concern and how it get into waterways?
- What can citizens do?

This newsletter is intended to reach out to the public and offer an opportunity for citizens to provide input on stormwater issues in their area. After reading this newsletter, please contact the Nueces County Public Works Department with any comments or questions you may have on stormwater issues.

Stormwater Runoff

Stormwater runoff comes from rain flowing over surfaces such as rooftops, paved streets, sidewalks, parking lots, lawns, and bare soil. Runoff collects and transports floatables, soil, pet waste, pesticides, fertilizers, oil and grease, litter, and other pollutants to nearby water bodies, such as Nueces River, Oso Creek, Oso Bay, and Corpus Christi Bay.

Household Hazardous Waste

Household Hazardous Waste (HHW) is leftover or used household products containing hazardous components that can present safety concerns if not managed properly. HHW consists of items we use frequently around our homes; examples of HHW include: used oil, discarded fluorescent light bulbs, batteries, anti-freeze, bathroom and kitchen cleaners, bleach, herbicides, pesticides, fertilizers, bug sprays, furniture polish, electronics, medications, paints, solvents, and pool chemicals. Warning labels for HHW products often include words such as “warning,” “caution,” “flammable,” “toxic,” or “poison.”

Why is HHW a concern and how does it get into waterways?

Why is HHW a concern?

- HHW may be dangerous and can be harmful to health and the environment.
- If HHW is not disposed of properly, it can enter storm sewers and flow into and pollute waterways.

How does HHW get into Waterways?

- Stormwater or wind causes HHW to enter waterways or storm drains.
- HHW is dumped illegally on-land or into storm drains or waterways.

What can citizens do?

Activities that can be taken to prevent HHW from entering stormwater include:

- Know what items are HHW.
- Read product labels and purchase nonhazardous options when possible.
- Purchase only the amount of HHW you will need.
- Keep HHW in the original container and never remove labels.
- Try to use the HHW product until it is completely gone.
- Never mix HHW with other products.
- Do not place HHW in your trash or pour into sinks, drains, or sewers.
- Don’t rinse paint brushes with an outdoor hose.
- Select water-based products over solvent-based products.
- Dispose of HHW properly.
- Check with your municipality or county to learn about HHW collection centers.

Please contact the Department of Public Works at (361) 888-0490 regarding questions, comments, and requests for additional information.

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In this newsletter…

This newsletter is intended to reach out to the public and offer an opportunity for citizens to provide input on stormwater issues in their area. After reading this newsletter, please contact the Nueces County Public Works Department with any comments or questions you may have on stormwater issues.

Stormwater Runoff

Stormwater runoff in Nueces County comes from rain flowing over surfaces such as rooftops, paved streets, sidewalks, parking lots, lawns, and bare soil. Runoff collects and transports soil, pet waste, pesticides, fertilizers, oil and grease, litter, and other pollutants to nearby water bodies, such as Nueces River, Oso Creek, Oso Bay, and Corpus Christi Bay.

What is Sediment?

Sediment is loose soil particles that settle at the bottom of a waterway. Sediment, which comes from sources such as soil erosion or decomposition of plants, can be transported to waterways by stormwater runoff.

The U.S. Environmental Protection Agency provides the following facts about sediment:

- Sediment is listed as the most common pollutant in rivers, streams, lakes, and reservoirs.
- Natural erosion produces nearly 30 percent of the total sediment in the United States, and the remaining 70 percent comes from erosion from human use of land.
- Construction activities, including relatively minor home-building projects like room additions and swimming pools, generate the most concentrated sediment releases.
- Sediment pollution causes $16 billion in environmental damage annually.

Why is Sediment a Problem?

- Sediment fills up storm drains and catch basins, occupying space designed for stormwater, increasing the potential for flooding.
- Sediment entering waterways causes them to become cloudy, preventing animals from seeing food and preventing natural vegetation from growing in water.
- Sediment in streambeds disrupts the natural food chain by destroying the habitat where the smallest organisms live and causes massive declines in fish populations.
- Sediment increases the cost of treating drinking water and can result in odor and taste problems.
- Sediment can clog fish gills, reducing resistance to disease, lowering growth rates, and affecting fish egg and larvae development.
- Nutrients transported by sediment can activate blue-green algae that release toxins and can make swimmers sick.
- Sediment deposits in rivers can alter the flow of water and reduce depth, which makes navigation and recreational use more difficult.

What Can Citizens Do?

Activities that can be taken to reduce sediment in stormwater include:

- Sweep sidewalks and driveways instead of hosing them off.
- Use a straw erosion control blanket if restarting or tilling a lawn.
- Notify local government officials when you see sediment entering streets or streams near a construction site.
- Put compost or mulch on your garden to help keep soil from washing away.
- Avoid mowing within 10 to 25 feet from the edge of a stream or creek. This will create a safe buffer zone that will help minimize erosion and naturally filter stormwater runoff that may contain sediment.
- Wash vehicles at a commercial car wash or on a surface that absorbs water, such as grass or gravel.
- Cover stockpiles of sand, gravel, and soil for home improvement projects with a tarp.

Please contact the Department of Public Works at (361) 888-0490 regarding questions, comments, and requests for additional information.

Educational Brochure Distribution Log

Date	Number of Educational Brochures Distributed	Topic of Educational Brochures Distributed
2019	Approximately 300	Stormwater basics, illegal dumping
2020	Approximately 300	Stormwater basics, illegal dumping
2021	Approximately 300	Stormwater basics, illegal dumping
2022	Approximately 300	Stormwater basics, illegal dumping

Educational Brochure Distribution Log

Date	Number of Educational Brochures Distributed	Topic of Educational Brochures Distributed

Attachment 5

Newspaper Notice, Publisher Affidavits, and Public Input
(to be added following publication)

Attachment 6

Public Education and Outreach Activities Log

Public Education and Outreach Activities Log

Date	Public Education or Outreach Activity Description
2019	Educational meetings with general public by Environmental Enforcement Officers
7/31/2019	Nueces River Cleanup
2020	Educational meetings with general public by Environmental Enforcement Officers
2021	Educational meetings with general public by Environmental Enforcement Officers
2022	Educational meetings with general public by Environmental Enforcement Officers

Public Education and Outreach Activities Log

Date	Public Education or Outreach Activity Description

Attachment 7

MS4 Area Maps Update Log

MS4 Area Map Update Log

Date	MS4 Area Map Update Reason
3/26/2020	Added SSC #1 to map.
9/1/2020	Added SSC #29B to map.
12/3/2020	Added SSCs #8B, 36C, 36D, 36E, 37B, and 40 to map.
1/17/2022	Added SSCs #19A and 36F to map.

MS4 Area Map Update Log

Date	MS4 Area Map Update Reason

Attachment 8

IDDE Training Presentation and Sign-In Sheets

Stormwater Pollution Prevention Training

For Nueces County Department of Public Works

Stormwater Summary

- Stormwater is water flowing over land during and just after a rain event
- Most stormwater does not flow into a treatment system. It flows into stormwater conveyances and nearby waterways
- In Nueces County, some of the larger waterways include Nueces River, Oso Creek, Nueces Bay, Oso Bay, and Corpus Christi Bay
- Pollutants generated on land impact the water quality of nearby waterways which can affect quality of life, fisheries, and recreation

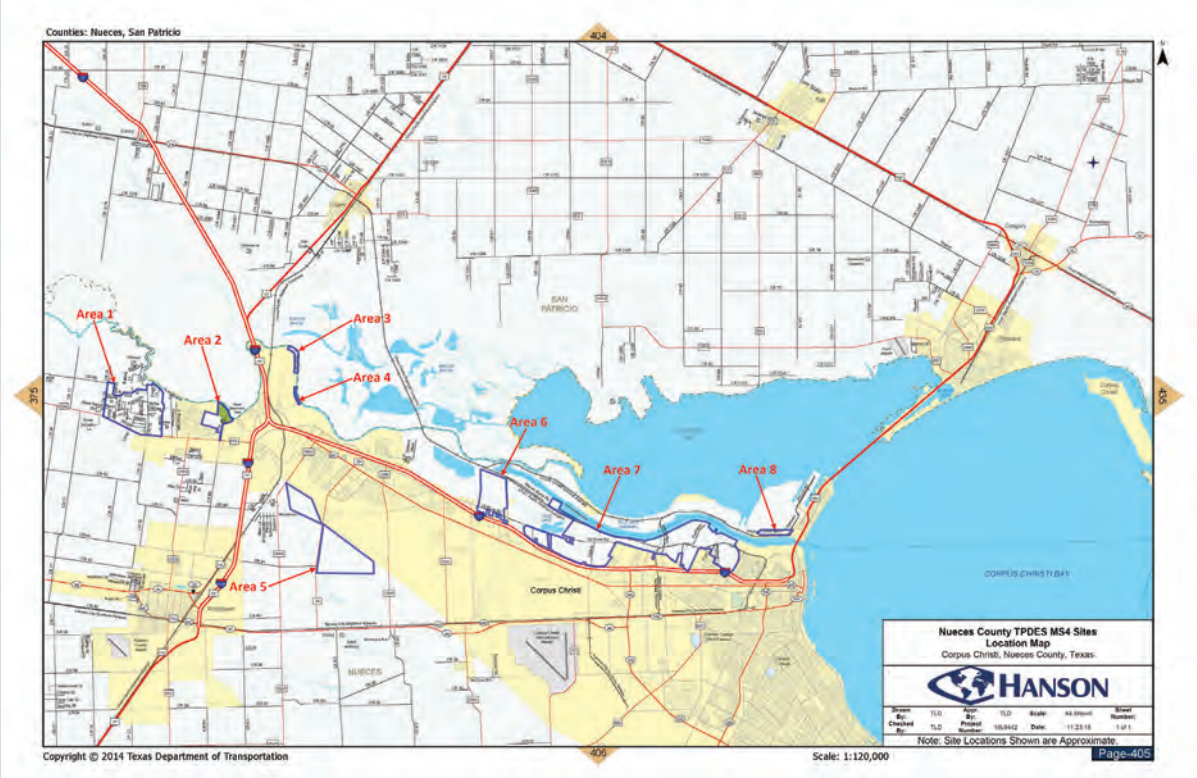
Why do we need to reduce pollution in stormwater?

- In 1972 the National Pollution Discharge Elimination System (NPDES) was created in Section 402 of the Clean Water Act
- NPDES prohibits discharges of pollutants from any point source into the nation's waters except as allowed under a NPDES permit
- In 1998, the State of Texas assumed the authority to administer the NPDES program in Texas under the Texas Pollutant Discharge Elimination System (TPDES)

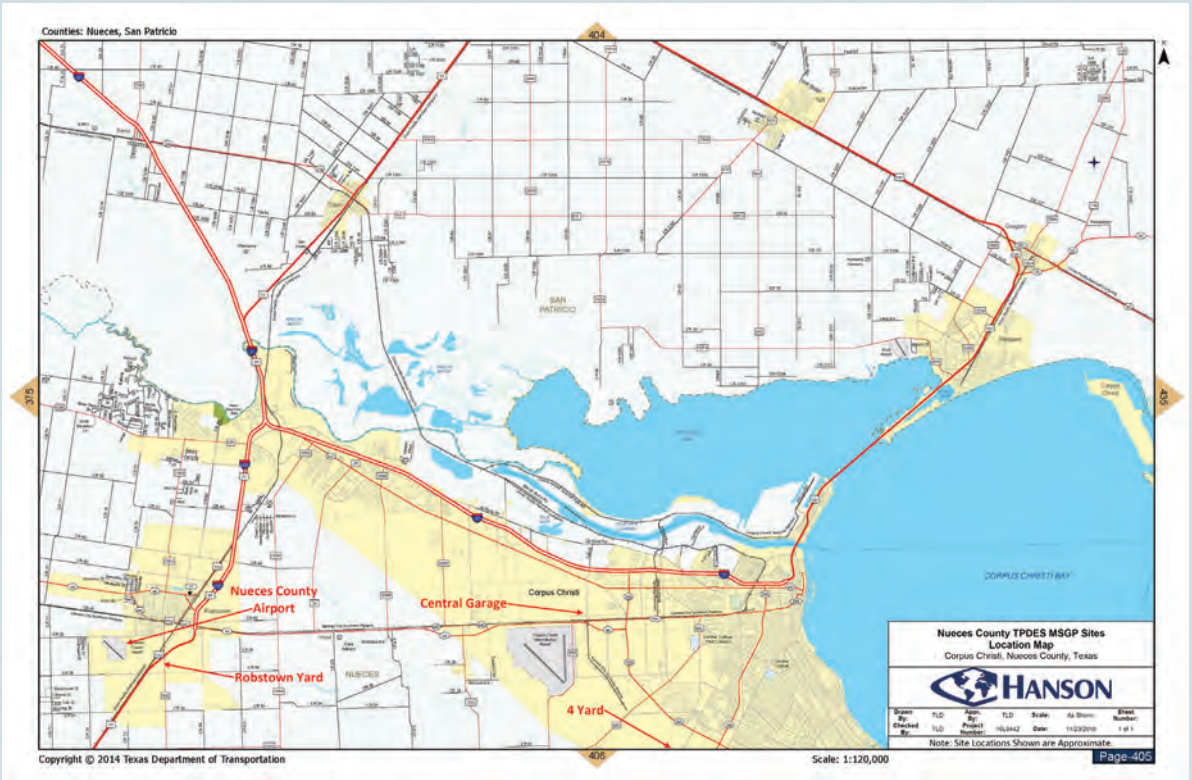
Nueces County Stormwater Permits

- TPDES Small MS4 General Permit –
  - Eight Noncontiguous Unincorporated Areas within Nueces County Located within the City of Corpus Christi Urbanized Area – TXR040054
- TPDES Multi Sector General Permits –
  - Central Garage – TXR05BH59
  - 4 Yard – TXR05X752
  - Robstown Yard – TXR05X639
  - Nueces County Airport – TXR05X515

Nueces County TPDES MS4 Sites



Nueces County TPDES MSGP Sites



Achieving Compliance with TPDES Permits

- Small MS4 Permit –
  - Prepare and implement Stormwater Management Program (SWMP)
- Multi Sector General Permits –
  - Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) for each facility (4 Yard, Central Garage, Robstown Yard, Nueces County Airport)
  - Conduct quarterly facility inspections and an annual comprehensive site compliance evaluation (done by Hanson Professional Services)
  - Conduct quarterly visual monitoring and annual sampling of stormwater at facility outfalls (done by Hanson Professional Services)
  - Implement Best Management Practices (BMPs) to prevent pollutant discharges from facility
  - Update SWPPP as necessary (done by Hanson Professional Services)
  - Provide annual training to facility employees (this presentation)

Stormwater Training Objectives

- Ensure employees are aware of conditions that could result in the discharge of pollutants to stormwater
- Satisfy annual training requirements for SWPPP and SWMP:
  - Goals of the SWPPP
  - Material management and handling practices and good housekeeping measures
  - Spill prevention methods and location of spill cleanup materials and equipment
  - Proper spill reporting procedures
- Satisfy annual training requirements for SWMP:
  - Inform MS4 field staff of Illicit Discharge Detection and Elimination
  - Train construction stormwater staff on permitting/enforcement, document review, and construction site inspections

Goals of the SWPPP

- Identify actual and potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the MSGP facilities
- Establish practices and any necessary controls that will prevent or effectively reduce pollution in stormwater discharges from the MSGP facilities and that ensure compliance with the terms and conditions of the MSGP
- Describe how the selected practices and controls are appropriate for the facility and how each will effectively prevent or lessen pollution
- Discuss how controls and practices relate to each other such that together they comprise an integrated facility-wide approach for pollution prevention in stormwater discharges

Material Management and Handling Practices and Good Housekeeping Measures

Vehicle Washing

- Wash vehicles in designated areas with required drainage systems
- Discharges to storm sewer from washing vehicles, aircraft, or equipment is prohibited under MSGP
- Non-stormwater discharges must go to sanitary sewer unless allowed under MSGP. Examples of allowable non-stormwater discharges are:
  - Water from routine washing of pavement or building exteriors conducted without detergents
  - Uncontaminated air conditioner condensate

Material Management and Handling Practices and Good Housekeeping Measures

Vehicle Fueling

- Have absorbent spill cleanup materials and spill kits available in fueling areas
- Equip nozzles with automatic shutoff to prevent overfill
- Do not 'top off' fuel tanks
- Use drip pans under hose and pipe connections and other leak-prone areas during bulk fueling
- Have trained employee present during bulk fueling

If a spill occurs, do not flush the spill away with a hose. Spread absorbent material, sweep with a broom, and dispose of properly.

Material Management and Handling Practices and Good Housekeeping Measures

Vehicle Parking

- Designate a parking spot for each vehicle so that if a leak is indicated on the ground, the vehicle can be identified and repaired
- Assign the task of checking vehicles for leaks or spills to an employee
- Place a drip pan under leaking vehicles until they can be repaired
- Develop a reasonable procedure for identifying, reporting, repairing, and cleaning up leaking motor fluids and spilled materials. Make sure employees are trained on the procedure

Material Management and Handling Practices and Good Housekeeping Measures

Outdoor Storage

- Keep general shop trash in a dumpster with the lid closed
- Place dumpsters on a paved surface and keep the area clean by picking up dropped trash and sweeping regularly. Do not use a hose to cleanup
- If storing scrap metal outdoors, use a cover for the storage area
- If storing empty drums outdoors, remove from facility as soon as possible
- Drain and seal drums to avoid spills

Material Management and Handling Practices and Good Housekeeping Measures

Outdoor Storage

- Use good housekeeping measures
  - Minimize exposure of pollutant sources
  - Inspect and report
  - Cleanup spills and leaks promptly
- Absorbent material placed on a spill will end up at the outfall if not swept up

Material Management and Handling Practices and Good Housekeeping Measures

Containers/Drum Management

- Only use containers that are in good condition and are compatible with the material or waste to be stored
- Keep containers closed, except when adding or removing contents
- Inspect containers regularly
- Use a funnel or hose to add or transfer materials
- Have personnel attend to transfers
- Transfer materials to a new container immediately if current container is leaking
- Store containers in a containment area to hold spills

Material Management and Handling Practices and Good Housekeeping Measures

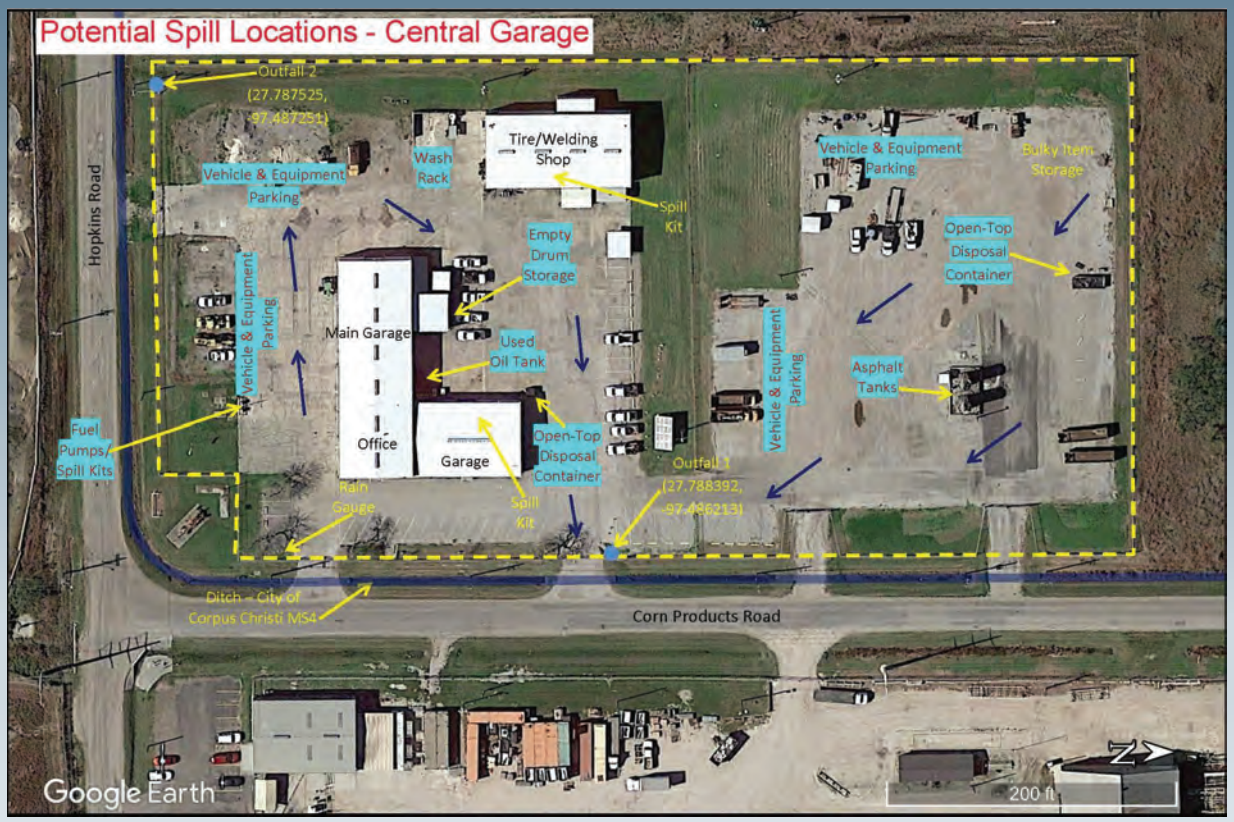
Stockpile Management

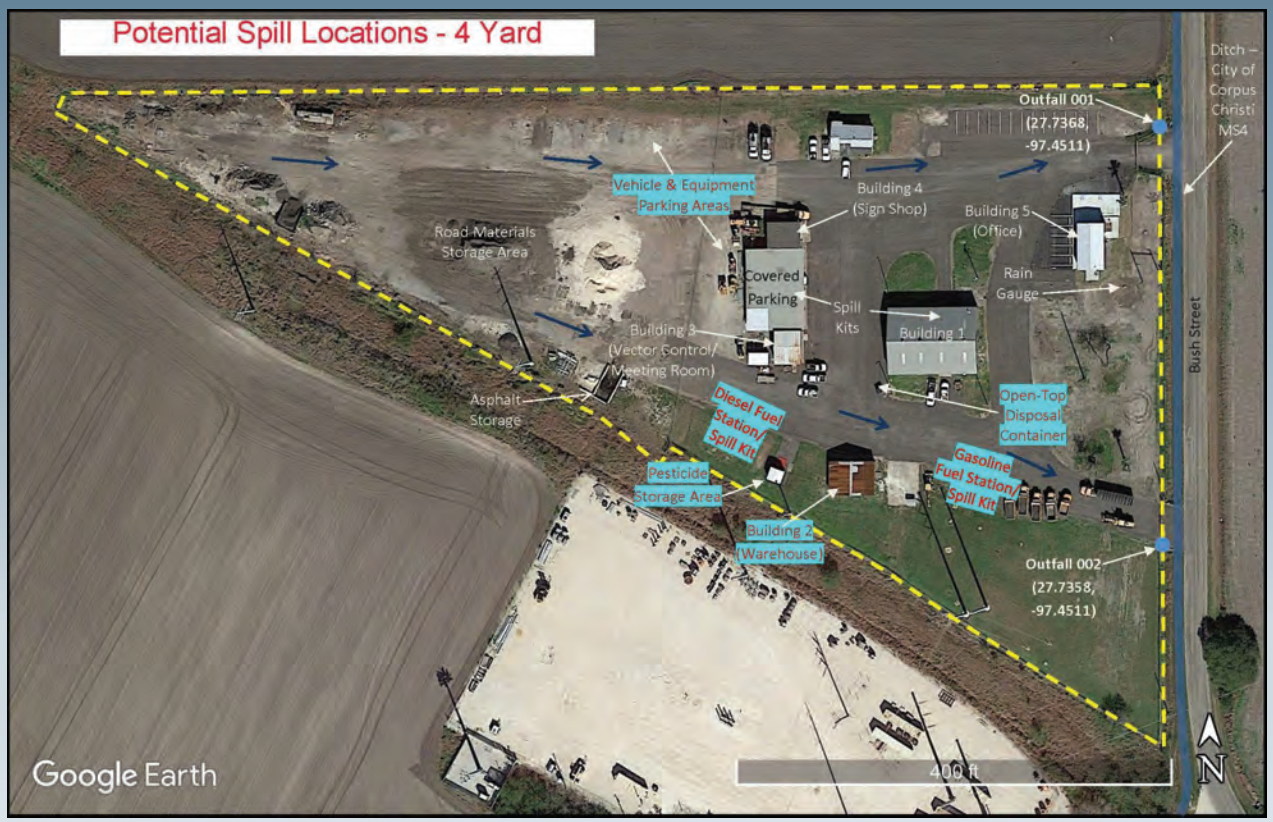
- Locate stockpiles a minimum of 50 feet away from concentrated flows of stormwater, drainage courses, and inlets
- Protect stockpiles from stormwater by using temporary sediment barriers such as berms, fiber rolls, silt fences, or sandbags
- Cover stockpiles during rainy season if necessary
- Inspect stockpiles and BMPs regularly
- Repair BMPs as necessary

Spill Prevention and Response and Location of Spill Cleanup Materials and Equipment

Prevention

- Prepare SWPPP and provide to employees
  - SWPPPs have been prepared and are located in each facility office
- Identify potential spill locations
  - See maps
- Use Good Housekeeping Measures
  - Store materials properly, use appropriate personal protective equipment and tools, conduct walk through inspections
- Provide secondary containment
  - Place containment under/around tanks and drums
- Provide spill cleanup materials
  - See maps




Potential Spill Locations - 4 Yard
Ditch – City of Corpus Christi MS4
Outfall 001 (27.7368, -97.4511)
Vehicle & Equipment Parking Areas
Building 4 (Sign Shop)
Building 5 (Office)
Road Materials Storage Area
Covered Parking
Spill Kits
Rain Gauge
Building 3 (Vector Control/ Meeting Room)
Building 1
Bush Street
Asphalt Storage
Diesel Fuel Station/ Spill Kit
Open-Top Disposal Container
Gasoline Fuel Station/ Spill Kit
Pesticide Storage Area
Building 2 (Warehouse)
Outfall 002 (27.7358, -97.4511)
Google Earth
400 ft
N


Potential Spill Locations - Robstown Yard
Drainage Ditch
Garage
Garage
Rain Gauge
Outfall 1
Road Work Sign Storage
Dumpster
Spill Kits
Animal Control
USTs and Pumps
Office
Garage
Office
Drainage Swale
FM 892
Vehicle & Equipment Parking
Wash Rack
Google Earth
200 ft
N

Spill Prevention and Response and Location of Spill Cleanup Materials and Equipment

Response

- Notify Stormwater Pollution Prevention Team immediately upon discovery of a spill
- Non-essential employees should move to a safe area away from the spill
- Contain the spill with structures or absorbent materials if safe to do so
- Identify source of spill and stop if possible
- If necessary, contact cleanup/response contractors or emergency personnel
- Use appropriate Safety Data Sheets as info source for determining response actions
- Designate employees or contractor who will perform cleanup operations
- Initiate cleanup

Spill Prevention and Response and Location of Spill Cleanup Materials and Equipment

Response (Continued)

- Make arrangements for temporary on-site storage and off-site disposal of waste materials generated from cleanup
- Clean all equipment used during cleanup and restock spill cleanup supplies
- Stormwater Pollution Prevention Team will review activities associated with spill event
- Identify actions that could have prevented the spill or minimized the impact
- Relay preventative measures to facility personnel and incorporate into future training sessions
- File a report within the SWPPP which details all activities associated with the spill event, including cause, response, and recommendations identified during the review

Proper Spill Reporting Procedures

- Notify appropriate local, state, and federal agencies within 24 hours if spill is of a reportable quantity
  - Materials handled at the facilities are considered “Oil”, “Petroleum Products”, or “Crude Oil that is Neither a Petroleum Product nor Used Oil”.
  - Reportable quantities for oils (motor oils, grease):
    - For spills or discharges onto land: 210 gallons (5 barrels)
    - For spills directly to water in the state: quantity sufficient to create a sheen
  - Reportable quantities for Petroleum Products (gasoline, diesel, mineral spirits, used oil):
    - For spills or discharges onto land: 25 gallons (0.6 barrels)
    - For spills or discharges to water in the state: quantity sufficient to create a sheen
  - Reportable quantities for Crude Oil that is neither a Petroleum Product nor Used Oil (asphalt):
    - For spills or discharges on to land: 210 gallons (5 barrels)
    - For spills directly to water in the state: quantity sufficient to create a sheen

Proper Spill Reporting Procedures

- Notification information:
- Local: Holders of TPDES Permits are required to report to the City of Corpus Christi Water Department Superintendent any spill, release, or event that would require notification to the National Response Center (NRC), TCEQ, or Texas General Land Office (TGLO), within one hour or reporting to those agencies.
  - Water Department Contact Information: Phone: (361) 826-2489 Fax: (361) 826-1889
- State and Federal: Report spills to land or into waters other than coastal waters to TCEQ and NRC; report spills to coastal waters to TGLO and NRC.
  - TCEQ Headquarters Contact Information: Phone – (800) 832-8224
  - TCEQ Regional Contact Information: Phone – (361) 825-3100
  - NRC/TGLO Contact Information: Phone – (800) 424-8802
  - TGLO Field Office Contact Information: Phone – (361) 886-1650

Proper Spill Reporting Procedures

- Information to be reported:
  - Date and time of spill
  - Identity or chemical name of any material spilled
  - Whether the substance is hazardous
  - Estimated quantity of material spilled
  - Time and duration of event
  - Location of spill, including any affected waters
  - Extent of actual and potential water pollution
  - Source of the spill
  - Name, address, and phone number of responsible party
  - Steps being taken or proposed to contain and clean up the spill
  - Extent of any injuries, if any
  - Any known or anticipated health risks associated with the event
  - Possible hazards to the environment (air, soil, water, wildlife)
  - Identities of any government or private-sector representatives at the scene

Proper Spill Reporting Procedures

Follow up actions

- Identify actions that could have prevented the spill or minimized the impact
- Relay preventative measures to facility personnel and incorporate into future training sessions
- File a report within the SWPPP which details all activities associated with the spill event, including cause, response, and recommendations identified during the review

Best Management Practices

- Use good housekeeping measures
- Perform preventative maintenance including regular inspections, testing, and cleaning of the facility equipment and operational systems
  - Areas to check are tanks, piping, secondary containment areas, trucks, and equipment
- Check condition of waste fluid containers and discard deteriorating containers
- Store petroleum products within covered and/or secondary containment storage areas where there are no connections to nearby storm drains

Why is this a stormwater problem?

What could happen if it started raining?

Illicit Discharge Detection and Reporting

- What is an Illicit Discharge?
  - Any discharge to a Municipal Separate Storm Sewer System (MS4) that is not entirely composed of stormwater, except discharges allowed under the Small MS4 General Permit or a separate authorization and discharges resulting from fire-fighting activities
- Examples of Illicit Discharges:
  - Industrial Process Water
  - Commercial Car Wash Wastewaters
  - Sanitary Sewer Flows
  - Loading Area Wash-Down Water
  - Chlorinated Pool Water
  - Water Softener Brine Backwash
  - Restaurant Mat Wash-Down Water
  - Grease Trap Overflows
  - Leaf/Grass Clippings
  - Washing Machine Discharge
  - Wastewater Treatment Plant Effluent
  - Used Oil
  - Concrete/Paint Equipment Washout Water
- Examples of Allowable Discharges:
  - Non-stormwater discharges (irrigation, potable water sources, diverted stream/ wetland flows, ground water, foundation drains, air conditioning condensation, etc.)
  - Discharges authorized by another TPDES permit

Illicit Discharge Detection and Reporting

- Signs of Illicit Discharge:
  - Unusual water color or cloudiness
  - Strong pungent or musty odor
  - Floating debris
  - Surface scum or foam
  - Oil sheen
  - Algae
  - Dead vegetation or inhibited growth
  - Dead animals
  - Stains on channel bottoms or sides
  - Pipe corrosion

Construction Site Stormwater Permitting/Enforcement, Document Review, and Inspections

Construction Site Stormwater Permitting

- Construction sites meeting certain criteria are required to obtain coverage under the TCEQ Construction General Permit
  - Sites that will disturb 1 or more acre of land are required to have permit coverage and prepare and implement a construction Stormwater Pollution Prevention Plan (SWPPP)
- Nueces County Department of Public Works is responsible for ensuring that sites within the MS4 have prepared and implemented a construction SWPPP
  - Information on construction sites observed during drive-through MS4 inspections is gathered and research is done to determine whether the construction site operators have obtained coverage (performed by Hanson Professional Services)
  - Sites lacking necessary permit coverage are referred to TCEQ for follow up

Construction Site Stormwater Permitting/Enforcement, Document Review, and Inspections

Construction Site Document Review

- Construction documents submitted to Nueces County for proposed developments as outlined in the Nueces County Subdivision Regulations and Platting Requirements should be reviewed as they are received or following observation of construction projects during MS4 drive-through inspections
  - A log of construction sites for which document review has occurred is kept with the Stormwater Management Program (SWMP) at the Nueces County Department of Public Works office at the courthouse

Construction Site Stormwater Permitting/Enforcement, Document Review, and Inspections

Construction Site Inspection

- Periodic inspections are performed on selected construction sites within the MS4
  - Inspections consist of observation and permit coverage research for construction sites within the MS4 that are not owned or operated by Nueces County
  - A record of sites inspected is kept with the SWMP at the Nueces County Department of Public Works office at the courthouse

Review

- Stormwater can carry pollutants to nearby water ways
- Maintaining compliance with Nueces County's stormwater permits helps reduce pollutant discharge into water ways
- Be observant and report anything that may contribute pollutants to stormwater

Illicit Discharge Detection and Elimination Training Log

Date: _____

Employee Name	Employee Signature

Nueces County Airport and Public Works Storage Yard –
Stormwater Pollution Prevention Plan Employee Training Record

Date of training session: 12/10/2021

Name	Signature
John F. Cox	

Central Garage – Stormwater Pollution Prevention Plan
Employee Training Record

Date of training session: 12/21/2021

Name	Signature
John DeLeon	[signature]
Ricky E. Layne	[signature]
Cipriano Ortiz	[signature]
Dlani Amesquita	[signature]
Humberto Salinas	[signature]
Santiago Mercado	[signature]
Rudy Rodriquez	[signature]
Noe Jaquez	[signature]

Road + Bridge

Central Garage – Stormwater Pollution Prevention Plan
Employee Training Record

Date of training session: 12-21-2021

Name	Signature
Charlie Carrion III	
Colton Tate	
Rene Vela	
DAVID GAMEZ	
ARTURO PACHECO	
Ernest Puente	

Robstown Yard – Stormwater Pollution Prevention Plan
Employee Training Record

Date of training session: Thursday, December 16, 2021

Name	Signature
Domingo Flores Jr	
Pablo Molina	
Ryan Kincaid	
Jose Torres	
Adrian Saldaña	
John Garcia	
Raul Reyna	
Umberto Cantu	
Angel Chapa	
Felipe Medrano	
Jose Vaile	
Ricky Martinez	
Isaac Rodriguez	
Michael Hernandez	
Juan Miguel Marquez	
Vicente Salazar	
Richard De Leon	
Sandra Calderon	

ANNUAL EMPLOYEE STORMWATER TRAINING

Directions: The training program addresses requirements for the Nueces County Stormwater Management Program as well as the following elements of the Stormwater Pollution Prevention Plan (SWPPP) for each facility, as applicable: Good Housekeeping, Spill Prevention and Response, Erosion Control, Maintenance Program for Structural Controls, Best Management Practices (BMPs), and Training.

Presentation-based or videotape training is acceptable. Use this sign-in sheet to document onsite training. File the completed sheet in the Appendix of the SWPPP.

Training Topics:	Stormwater/pollution basics, stormwater permits, material management and handling practices/good housekeeping measures, spill prevention and cleanup, spill reporting, best management practices, illicit discharge detection and reporting, and construction site stormwater permitting/document review/inspections.
Description of Training Program/Materials (e.g. film, newsletter, course, power point, field observation):	Power point printout
Presentation Prepared By:	Hanson Professional Services Inc.
Facility Name:	4 Yard
Date of Training:	

ATTENDEES

Employee Name (Printed)	Signature	Date
Linda Garcia	Linda Garcia	12-5-2022
Toby Brock		12/05/2022
Victor Hinojosa		12/5/2022
Eduardo C. Varra		12/5/2022
Nathan Metting	Nath R. Metting	12-5-22
Michael Garcia	Michael Garcia	12-5-22
Carlos Torres		12-5-22
Jay Falls		5DEC22
Thomas Ledo		5 Dec 22
Segvando Sosa	Segvando Sosa	12-5-22
Candido Perez	Candido Perez	12-5-22
Roy Perez		12 5 22

Employee Name (Printed)	Signature	Date
JOEL SANDOVAL	Joel Sandoval	12/05/2022
Michael A. Flores	Michael A. Flores	12/5/2022
Esteban Pineda	Esteban Pineda	12-5-2022
Ben Sanchez	Ben Sanchez	12/5/22
BERT Salinas	Bert Salinas	12-5-22
LUPITA GONZALEZ	Lupita Gonzalez	12/5/22

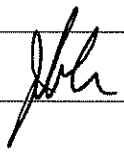
ANNUAL EMPLOYEE STORMWATER TRAINING

Directions: The training program addresses requirements for the Nueces County Stormwater Management Program as well as the following elements of the Stormwater Pollution Prevention Plan (SWPPP) for each facility, as applicable: Good Housekeeping, Spill Prevention and Response, Erosion Control, Maintenance Program for Structural Controls, Best Management Practices (BMPs), and Training.

Presentation-based or videotape training is acceptable. Use this sign-in sheet to document onsite training. File the completed sheet in the Appendix of the SWPPP.

Training Topics:	Stormwater/pollution basics, stormwater permits, material management and handling practices/good housekeeping measures, spill prevention and cleanup, spill reporting, best management practices, illicit discharge detection and reporting, and construction site stormwater permitting/document review/inspections.
Description of Training Program/Materials (e.g. film, newsletter, course, power point, field observation):	Power point printout
Presentation Prepared By:	Hanson Professional Services Inc.
Facility Name:	Nueces County Airport
Date of Training:	1 December 2022

ATTENDEES

Employee Name (Printed)	Signature	Date
John Cox		12/01/2022

ANNUAL EMPLOYEE STORMWATER TRAINING

Directions: The training program addresses requirements for the Nueces County Stormwater Management Program as well as the following elements of the Stormwater Pollution Prevention Plan (SWPPP) for each facility, as applicable: Good Housekeeping, Spill Prevention and Response, Erosion Control, Maintenance Program for Structural Controls, Best Management Practices (BMPs), and Training.

Presentation-based or videotape training is acceptable. Use this sign-in sheet to document onsite training. File the completed sheet in the Appendix of the SWPPP.

Training Topics:	Stormwater/pollution basics, stormwater permits, material management and handling practices/good housekeeping measures, spill prevention and cleanup, spill reporting, best management practices, illicit discharge detection and reporting, and construction site stormwater permitting/document review/inspections.
Description of Training Program/Materials (e.g. film, newsletter, course, power point, field observation):	Power point printout
Presentation Prepared By:	Hanson Professional Services Inc.
Facility Name:	Central Garage
Date of Training:	12-8-2022

ATTENDEES

Employee Name (Printed)	Signature	Date
John DeLeon		12/08/22
RANDY BATES		12-8-22
Cipriano Ortiz		12-8-22
Santiago Mercado		12-8-22
George Marthen	GEORGE MARTHEN	12-8-22
Rudy Rodriguez		12-08-22
Dana Amezquita		12/08/2022
Gerardo marquez		12/08/2022

ANNUAL EMPLOYEE STORMWATER TRAINING

Directions: The training program addresses requirements for the Nueces County Stormwater Management Program as well as the following elements of the Stormwater Pollution Prevention Plan (SWPPP) for each facility, as applicable: Good Housekeeping, Spill Prevention and Response, Erosion Control, Maintenance Program for Structural Controls, Best Management Practices (BMPs), and Training.

Presentation-based or videotape training is acceptable. Use this sign-in sheet to document onsite training. File the completed sheet in the Appendix of the SWPPP.

Training Topics:	Stormwater/pollution basics, stormwater permits, material management and handling practices/good housekeeping measures, spill prevention and cleanup, spill reporting, best management practices, illicit discharge detection and reporting, and construction site stormwater permitting/document review/inspections.
Description of Training Program/Materials (e.g. film, newsletter, course, power point, field observation):	Power point printout
Presentation Prepared By:	Hanson Professional Services Inc.
Facility Name:	Central Garage Road + Bridge
Date of Training:	

ATTENDEES

Employee Name (Printed)	Signature	Date
Charles Carmona	Charles Carmona	12-8-22
G Navarro	G Navarro	12-8-22
Ernest Puente	Ernest Puente	08 Dec. 22
Rena Vela	Rena Vela	12-8-22
Colton Tate	Colton Tate	12/8/22
Raul Bustos	Raul Bustos	12-8-22
Arturo Preciado	Arturo Preciado	12-8-22
Chris Flores	Chris Flores	12/8/22
David Gamez DAVID GAMEZ	David Gamez	12-8-22

Attachment 9

Unauthorized Dumping Sign Map and Location Log

Unauthorized Dumping Sign Location Log

Sign Location or Recommended Sign Location	Sign Coordinates or Recommended Sign Coordinates	Sign Wording
Existing Sign Location: East side of Ware Road (CR 73), approximately 100 feet south of intersection of Ware Road (CR 73) and Bobwhite Road	27° 52’ 01.78” N -97° 40’ 29.27” W	CR 73 IS UNDER SURVEILLANCE FOR ILLEGAL DUMPING
Existing Sign Location: South side of Lone Oak Drive, approximately 800 feet east of intersection of Lone Oak Drive and CR 73A	27° 52’ 04.24” N -97° 41’ 12.79” W	DUMPING OF HOUSEHOLD TRASH, DEBRIS, OR BRUSH PROHIBITED VIOLATORS WILL BE CITED

Unauthorized Dumping Sign Locations

Current as of October 2019
Signs only present in Area 1 of MS4

Attachment 10
IDDE Manual

NUECES COUNTY UNINCORPORATED AREA MS4 – ILLICIT DISCHARGE, DETECTION, AND ELIMINATION (IDDE) MANUAL

NUECES COUNTY DEPARTMENT OF PUBLIC WORKS

November 2023

TABLE OF CONTENTS

APPENDICES

CHAPTER 1 – INTRODUCTION

Discharges from Municipal Separate Storm Sewer Systems (MS4s) often include wastes and wastewater from non-stormwater sources. Illicit discharges enter the MS4 through either direct connections (wastewater piping either mistakenly or deliberately connected to the storm drains) or indirect connections (infiltration into the MS4 from cracked sanitary systems). The result is untreated discharges that contribute pollutants, potentially including heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria to waters of the state. Pollutants from illicit discharges can be high enough to significantly degrade receiving water quality and threaten aquatic wildlife and human health.

The Federal Clean Water Act requires that all municipal, industrial, and commercial facilities that discharge wastewater or stormwater directly from a point source or certain non-point sources into a water of the United States (such as a stream, lake, river, or ocean) must obtain a National Pollutant Discharge Elimination System (NPDES) Permit. On September 14, 1998, the State of Texas assumed the authority to administer the NPDES program in Texas and the Texas Commission on Environmental Quality (TCEQ) currently issues general or individual permits under the Texas Pollutant Discharge Elimination System (TPDES). Nueces County currently has authority to discharge stormwater under TPDES Permit Number TXR040000 – General Permit to Discharge Under the TPDES under provisions of 402 of the Clean Water Act and Chapter 26 of the Texas Water Code, for Small Municipal Separate Storm Sewer Systems (MS4), issued on January 24, 2019.

A requirement of Permit Number TXR040000 is the preparation of a Storm Water Management Program (SWMP). Nueces County has prepared a SWMP for the Unincorporated Areas of the County that are located in the MS4. This Illicit Discharge Detection and Elimination (IDDE) Manual is intended to meet the minimum control measure best management practice (BMP) stated within the SWMP to develop a standard operating procedure for responding, investigating, and removing illicit discharges. A log of updates to the IDDE Manual is provided in Appendix A.

CHAPTER 2 – DEFINITIONS

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

A municipal separate storm sewer system (MS4) is defined in Permit Number TXR040000 as "a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

1. Owned or operated by the U.S., a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under the CWA §208 that discharges to surface water in the state;
2. That is designed or used for collecting or conveying stormwater;
3. That is not a combined sewer; and
4. That is not part of a publicly owned treatment works (POTW) as defined in 40 CFR §122.2."

ILLICIT DISCHARGE

An illicit discharge is any discharge to a MS4 that is not entirely composed of stormwater, except discharges pursuant to General Permit No. TXR040000 or a separate authorization and discharges resulting from emergency firefighting activities.

Illicit discharges can be categorized as either direct or indirect.

Examples of direct illicit discharges:

- Sanitary wastewater piping that is directly connected from a home to the storm sewer,
- Materials that have been dumped illegally into a storm drain catch basin,
- A shop floor drain that is connected to the storm sewer, and
- A cross-connection between the sanitary sewer and storm sewer systems.

Examples of indirect illicit discharges:

- An old and damaged sanitary sewer line that is leaking fluids into a cracked storm sewer line, and
- A failing septic system that is leaking into a cracked storm sewer line or causing surface discharge into the storm sewer.

Typical illicit surface discharges that may be observed by field personnel include:

- Overflows of sanitary sewerage systems;
- Untreated radiator flushing wastewaters;
- Untreated engine degreasing wastes;
- Over-application of fertilizers, pesticides or herbicides onto landscaping and impervious surfaces;
- Dewatering of construction sites without a permit;
- Improper washing of concrete ready-mix trucks;
- Commercial use of soaps and detergents: used in cleaning pavement, vehicles and equipment outside;
- Latex/oil-based paints and solvents disposed of in gutters or inlets;
- Restaurant grease: improper disposal;

- Private/Public utilities improperly storing chemicals or maintaining equipment;
- Leaking dumpsters;
- Car lots for used and new vehicles dripping fluids on the pavement;
- Fuel spills;
- Hazardous materials dumped along the roadway; and
- Unidentified substances dumped in secluded areas.

The following non-stormwater sources may be discharged from the Nueces County Unincorporated Area MS4 and are not required to be addressed in the small MS4's Illicit Discharge and Detection Program, unless they are determined by the permittee or the TCEQ to be significant contributors of pollutants to the small MS4, or they are otherwise prohibited by the MS4 operator:

1. Water line flushing (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
2. Runoff or return flow from landscape irrigation, lawn irrigation, and other irrigation utilizing potable water, groundwater, or surface water sources;
3. Discharges from potable water sources that do not violate Texas Surface Water Quality Standards;
4. Diverted stream flows;
5. Rising ground waters and springs;
6. Uncontaminated ground water infiltration;
7. Uncontaminated pumped ground water;
8. Foundation and footing drains;
9. Air conditioning condensation;
10. Water from crawl space pumps;
11. Individual residential vehicle washing;
12. Flows from wetlands and riparian habitats;
13. Dechlorinated swimming pool discharges that do not violate Texas Surface Water Quality Standards;
14. Street wash water excluding street sweeper wastewater;
15. Discharges or flows from emergency firefighting activities (firefighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, and similar activities);
16. Other allowable non-stormwater discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1);
17. Non-stormwater discharges that are specifically listed in the TPDES Multi Sector General Permit (MSGP) TXR050000 or the TPDES Construction General Permit (CGP) TXR150000;
18. Discharges that are authorized by a TPDES or NPDES permit or that are not required to be permitted; and
19. Other similar occasional incidental non-stormwater discharges such as spray park water, unless the TCEQ develops permits or regulations addressing these discharges.

ILLEGAL DUMPING

Unauthorized or illegally dumped litter means litter dumped anywhere other than in an approved solid waste site. Under Texas Health and Safety Code Title 5. Sanitation and Environmental Quality, Subtitle B. Solid Waste, Toxic Chemicals, Sewage, Litter, and Water, Chapter 365. Litter, Subchapter B. Certain Actions Prohibited, Section 365.012. Illegal Dumping; Discarding Lighted Materials; Criminal Penalties, illegal dumping is defined as follows:

(a) A person commits an offense if the person disposes or allows or permits the disposal of litter or other solid waste at a place that is not an approved solid waste site, including a place on or

within 300 feet of a public highway, on a right-of-way, on other public or private property, or into inland or coastal water of the state.

(a-1) A person commits an offense if:

(1) the person discards lighted litter, including a match, cigarette, or cigar, onto open-space land, a private road or the right-of-way of a private road, a public highway or other public road or the right-of-way of a public highway or other public road, or a railroad right-of-way; and

(2) a fire is ignited as a result of the conduct described by Subdivision (1).

(b) A person commits an offense if the person receives litter or other solid waste for disposal at a place that is not an approved solid waste site, regardless of whether the litter or other solid waste or the land on which the litter or other solid waste is disposed is owned or controlled by the person.

(c) A person commits an offense if the person transports litter or other solid waste to a place that is not an approved solid waste site for disposal at the site.

Section 365.012 does not apply to the temporary storage for future disposal of litter or other solid waste by a person on land owned by that person, or by that person's agent. The commission by rule shall regulate temporary storage for future disposal of litter or other solid waste by a person on land owned by the person or the person's agent.

Section 365.012 does not apply to an individual's disposal of litter or other solid waste if:

(1) litter or waste is generated on land the individual owns;
(2) litter or waste is not generated as a result of an activity related to a commercial purpose;
(3) disposal occurs on land the individual owns; and
(4) disposal is not for a commercial purpose.

CHAPTER 3 – ELEMENTS OF AN IDDE PROGRAM

Permit Number TXR040000 states that all permittees shall develop, implement, and enforce a program to detect, investigate, and eliminate illicit discharges into the small MS4. The program must include a plan to detect and address non-stormwater discharges, including illegal dumping to the MS4 system. Level 2 small MS4s, including the Nueces County Unincorporated Areas MS4, must include the following elements in their Illicit Discharge Detection and Elimination (IDDE) program:

1. An up-to-date MS4 map;
2. Methods for informing and training MS4 field staff;
3. Procedures for tracing the source of an illicit discharge;
4. Procedures for removing the source of the illicit discharge; and
5. For Level 2, 3, and 4 small MS4s, if applicable, procedures to prevent and correct any leaking on-site sewage disposal systems that discharge into the small MS4.

This IDDE Manual is intended to address all elements listed above, within the limitations described below.

Nueces County, as with other counties in Texas, is a subdivision of the state created under the Texas Constitution or by act of the Texas Legislature, but has no specific authority granted by virtue of its existence. Through various acts of the Texas Legislature, counties have been given some powers to regulate the subdivision of land through the platting process. They also have been given some authority to own and operate some public infrastructure, including water, wastewater, drainage, and waste disposal facilities. Counties may also institute civil actions and prosecute criminal actions under the Texas Water Code and the Texas Health and Safety Code. Nueces County has no independent regulatory authority over illicit discharges outside of these programs. There are currently two Nueces County Deputy Constables that function as Environmental Investigators for the County. The Environmental Investigators enforce violations of the Texas Health and Safety Code, Texas Water Code, Texas Penal Code, and Texas Transportation Code. Nueces County does not have enforcement authority for illicit connections and discharges. In the event that an illicit discharge is discovered by Nueces County personnel, information is gathered and provided to the City of Corpus Christi Wastewater Department or the TCEQ.

CHAPTER 4 – MS4 MAPPING AND IDENTIFICATION OF PRIORITY AREAS

In 2019, the maps of the MS4 were updated in conjunction with preparation of the SWMP. The maps will be periodically updated as new information on stormwater features is identified. The current version of the MS4 maps is provided in Appendix B.

MAPPING OPTIONS

Information gathered to be used in updating the MS4 map is collected from a variety of sources, including the following:

- Current and historic aerial photography, and
- Field data collected during quarterly MS4 drive through inspections.

CURRENT AND HISTORIC AERIAL PHOTOGRAPHY

Current and historic aerial photography are compared and reviewed to determine the location of existing or new stormwater features. This information is added to the appropriate map after being verified during a quarterly MS4 field inspection.

FIELD DATA COLLECTION

Global Positioning System (GPS) or Geographic Information System (GIS) technology will be used to obtain the coordinates (longitude and latitude) for each outfall or other stormwater feature observed during quarterly MS4 drive through inspections. Any new data collected is uploaded and MS4 maps are updated, as needed. Confirmation of features identified in current and historic aerial reviews is also done during inspections.

OUTFALLS

According to General Permit No. TXR040000, an outfall is a point source at the point where a small MS4 discharges to waters of the U.S. and does not include open conveyances connecting two MS4s, or pipes, tunnels, or other conveyances that connect segments of the same stream or other waters of the U.S. and are used to convey waters of the U.S. For the purpose of the General Permit, sheet flow leaving a linear transportation system without channelization is not considered an outfall. Point sources such as curb cuts; traffic or right-of-way barriers with drainage slots that drain into open culverts, open swales, or an adjacent property, or otherwise not actually discharging into waters of the U.S. are not considered an outfall.

Nueces County has mapped the MS4 and determined that there are no outfalls located within the unincorporated portions of the County, only significant drainage features. This location information is kept in the County's Mapping/GIS system, along with other information pertaining to the MS4. If any outfalls are constructed, as-built information and field observations will be used to update the Mapping/GIS system.

IDENTIFYING AREAS OF INTEREST

Locating priority areas will rely on accurate stormwater maps, knowledge of land use, relative age of stormwater systems, records of any public or personnel reports of potential problem areas, and monitoring data (if available). The following guidelines will be considered while identifying areas of interest within the Nueces County Unincorporated Areas MS4:

COMMERCIAL/INDUSTRIAL AREAS

These areas have been found in some communities' IDDE programs to have significant numbers of illicit connections and/or have discharges with a high potential to affect water quality. Businesses can be prioritized by determining Standard Industrial Classification Codes (SIC) and reviewing publicly available wastewater and stormwater permitting information.

OLDER AREAS OF THE COUNTY

Older development may predate more stringent construction codes regarding illegal connections and may have deteriorating sanitary sewer and/or storm sewer infrastructure that can lead to infiltration problems.

AREAS WHERE THERE HAVE BEEN REPEATED COMPLAINTS

Areas where illegal dumping or apparently contaminated discharges have been reported are obvious priority targets.

LOCATIONS IDENTIFIED FROM AMBIENT WATER QUALITY SAMPLING DATA

Locations with high levels of particular contaminants (e.g., bacteria, total dissolved solids) can help to target priority areas. Government agencies and local watershed groups monitor many water bodies, particularly those in more developed areas. In addition to providing sampling data, watershed groups can often serve as valuable resources for information about a particular water body and potential problem areas.

PRIORITY AREAS IDENTIFIED BY NUECES COUNTY

Using the guidelines provided above, Nueces County identified the following priority areas within the Nueces County Unincorporated Area MS4 boundaries:

Area 1 consists primarily of a residential neighborhood, with some commercial areas along Farm to Market (FM) Road 624. Stormwater runoff from Area 1 generally flows southwest to northeast over streets and through constructed drainage features and natural drainage ways into the Nueces River Below Lake Corpus Christi (TCEQ Segment 2102). Portions of Area 1 in close proximity to the Nueces River will be viewed as areas of interest.

Area 2 consists of the Nueces County Hazel Bazemore Park and the River Hills Country Club. Stormwater runoff from Hazel Bazemore Park generally flows south to north over park roads and through natural drainage ways and constructed drainage features into the Nueces River Below Lake Corpus Christi (TCEQ Segment 2102). Portions of Area 2 in close proximity to the Nueces River will be viewed as areas of interest.

Areas 3 and 4 consist primarily of residential neighborhoods that are located immediately adjacent to the Nueces River. Stormwater runoff from Areas 3 and 4 flows into the Nueces River Tidal (TCEQ Segment 2101). Portions of Areas 3 and 4 in close proximity to the Nueces River will be viewed as areas of interest.

Area 5 consists of agricultural land, a natural gas fractionation unit under construction (Epic Y-Grade Logistics, LP), and a portion of the Lyondell Basell Corpus Christi Complex (Equistar Chemicals, LP). Stormwater runoff from Area 5 generally flows north to south and enters drainage ditches present along Violet Road and to the south of the Equistar Chemicals, LP facility. Eventually stormwater runoff flows into Oso Creek (TCEQ Segment 2485A). Although both industrial properties hold

wastewater and/or stormwater permits, these areas within Area 5 will still be viewed as areas of interest.

Area 6 consists of industrial properties present along Up River Road (Flint Hills Resources Corpus Christi Complex – West Plant and Berry Contracting). Stormwater runoff from Area 6 generally flows south to north and into the Corpus Christi Inner Harbor (TCEQ Segment 2484). Although industrial properties typically hold wastewater and/or stormwater permits, industrial properties within Area 6 will still be viewed as areas of interest.

Area 7 consists of small businesses and industrial properties present along Up River Road (Pickett Systems, REPCON, Nueces Power Equipment, Buckeye Texas Processing, Port of Corpus Christi, Citgo Refining and Chemicals, Valero Refining, Epic Crude Terminal Company, Plains Terminals CC, The Fordyce Company, and American Chrome and Chemical). Stormwater runoff from Area 7 generally flows south to north and into the Corpus Christi Inner Harbor (TCEQ Segment 2484). Although industrial properties typically hold wastewater and/or stormwater permits, industrial properties within Area 7 will still be viewed as areas of interest.

Area 8 consists of industrial properties present on the north side of the Corpus Christi Ship Channel (Port of Corpus Christi and NuStar Logistics). Stormwater runoff from Area 8 generally flows north or south into the Corpus Christi Inner Harbor (TCEQ Segment 2484) or Nueces Bay (TCEQ Segment 2482). Although industrial properties typically hold wastewater and/or stormwater permits, industrial properties within Area 8 will still be viewed as areas of interest.

Additionally, any complaints received will be reviewed to identify areas where problems may be identified. Over the course of the permit term, priority areas will be part of active and on-going visual observation activities as part of a preventative program.

CHAPTER 5 – IDDE TRAINING AND EDUCATION

VISUAL INSPECTION TRAINING AND SAFETY

Nueces County has four facilities where road and bridge crews assemble prior to performing work throughout the County. The facilities are not located within the MS4; however, field crews from these facilities may perform work within the MS4 and should receive IDDE training. Supervisors of field crews are responsible for arranging for the IDDE training. At a minimum, training shall consist of reviewing the Illicit Discharge Detection and Elimination Information Sheet presented in Appendix C. Training will be documented in the Training Log provided in Appendix D.

Environmental Investigators working for Nueces County are educated on IDDE issues and are capable of enforcing violations of the Texas Health and Safety Code, Texas Water Code, Texas Penal Code, and Texas Transportation Code.

Contractors who may be asked to perform inspections relating to IDDE should also be trained prior to conducting inspections.

CHAPTER 6 – TRACING THE SOURCE OF AN ILLICIT DISCHARGE

Nueces County has no independent regulatory authority over illicit discharges outside of subdivision platting, owning and operating public infrastructure facilities, and prosecution of Texas Water Code and the Texas Health and Safety Code violations. Nueces County does not have enforcement authority for illicit connections and discharges; however, Nueces County will conduct quarterly visual inspections of the MS4 and train personnel who may be working in the MS4 to recognize signs of illicit discharges. In the event that an illicit discharge is discovered by Nueces County personnel, information will be gathered and provided to the City of Corpus Christi Wastewater Department or the TCEQ.

Environmental Investigators and road and bridge crews are working throughout the MS4 on a frequent basis and can report suspected illicit discharges for investigation. In addition, drive through visual inspections of the Nueces County Unincorporated Area MS4 are conducted by IDDE trained personnel on a quarterly basis as required in the SWMP. Quarterly inspections provide an opportunity to visually inspect water bodies as well as drainage features, such as swales, ditches, culverts, inlets, and outfalls. Suspected illicit discharges identified during quarterly inspections may also be reported for investigation.

INSPECTIONS

In most urban areas, the flow of water from a storm drain system is not a routine event during dry weather periods and can be an indicator of illicit discharges. However, dry weather flows from an MS4 can be from other non-stormwater discharges that would not be considered an illicit discharge. These non-stormwater discharges could include: groundwater infiltration into the storm sewer system, irrigation return flow, foundation drain discharges, etc.

Using the assumption that dry weather flows are not conclusive indicators of possible illicit discharges in the Nueces County Unincorporated Area MS4, inspections will be conducted focusing on visually conspicuous evidence of possible illicit discharges to the MS4.

Water quality sampling and analyses will not be conducted, except for Total Dissolved Solids (TDS) samples that were previously collected from the significant drainage feature in Area 2 of the MS4 as stated in the SWMP.

OBSERVATIONS

Certain geographic areas in Nueces County can be more prone to illicit discharges than others. Areas to be observed more frequently can be identified from past reports. The following areas will typically have a higher potential for illicit discharges:

- Commercial/industrial areas,
- Older areas of the County that predate more stringent construction codes regarding illegal connections, and
- Areas where illegal dumping or apparently contaminated discharges have been reported in drainageways.

Environmental Investigators, road and bridge crews, and drive-through inspectors shall be observant when traveling through or performing work in the MS4 to watch for evidence of illicit discharges or unusual flows from the storm drain systems. These personnel may observe dry-weather flows for odor, color, turbidity, and floatable matter. Unusual flows, pungent odors,

discoloration, oily substances in the water, stains or waste residues in ditches, channels, or drain boxes are possible indicators of an illicit discharge. Stormwater structural controls, including culverts, grated inlets, and concrete and earthen swales/ditches, should be inspected for deposits and stains, vegetation, and damage to structures.

INVESTIGATIONS

If road and bridge crews or drive-through inspectors should discover a suspected discharge, it should be reported to Nueces County Department of Public Works Construction Engineer, Bert Perez, at (361) 888-0490. The Construction Engineer will forward the information to Nueces County's Environmental Investigators who will investigate the incident to determine if it is an illicit discharge. In the event that an illicit discharge is confirmed, the information will be presented to the City of Corpus Christi Wastewater Department or the TCEQ.

If Nueces County Department of Public Works receives an illicit discharge complaint, Nueces County Environmental Investigators will be notified to investigate the report and determine if it is an illicit discharge. If confirmed, the information will be presented to the City of Corpus Christi Wastewater Department or the TCEQ for follow-up.

Safety considerations should be at the forefront of observation procedures at all times. Investigations should be conducted in groups of two or more whenever possible. Likely hazards should be anticipated and avoided. Never approach, contact, or sample a substance if the toxicity is at all suspect. Never open a sealed container to check the contents. If a highly toxic or flammable substance is discovered, personnel should leave the immediate area and contact the Nueces County Sheriff's Office at (361) 887-2222. If there is any question about a substance, contact a supervisor.

FIELD INSPECTION FORMS

MONTHLY ACTIVITIES REPORT

Documentation of the Environmental Investigators' inspections are compiled into Monthly Activities Reports. Records are maintained by Nueces County.

ILLICIT DISCHARGE AND UNAUTHORIZED DUMPING OBSERVATION FORM

The Illicit Discharge and Unauthorized Dumping Observation Form provides a record of each site visit conducted to investigate a report of an illicit discharge. The form shall also be filled out in the field if an illicit discharge is observed or suspected. The blank form is presented in Appendix E.

Completed forms will be stored electronically in the Nueces County Department of Public Work's files.

TRACING OF ILLICIT DISCHARGES

Nueces County does not have enforcement authority for illicit connections and discharges. If an illicit discharge is discovered by Nueces County personnel, pertinent information will be gathered and provided to the City of Corpus Christi Wastewater Department or the TCEQ who will perform tracing of the illicit discharge.

CHAPTER 7 – REMOVING THE SOURCE OF AN ILLICIT DISCHARGE

Nueces County does not have enforcement authority for illicit connections and discharges. In the event that an illicit discharge is discovered by Nueces County personnel, pertinent information will be gathered and provided to the City of Corpus Christi Wastewater Department or the TCEQ who will investigate and coordinate removal of the illicit discharge source.

CHAPTER 8 – PROCEDURES TO PREVENT AND CORRECT LEAKING ON-SITE SEWAGE SYSTEMS

Nueces County (Corpus Christi-Nueces County Department of Public Health) is currently an Authorized Agent for administering the Nueces County Order titled "On-Site Sewage Facilities". The On-Site Sewage Facility (OSSF) Order adopts and incorporates all applicable provisions related to OSSFs, which include, but are not limited to, those found in Chapters 341 and 366 of the Texas Health and Safety Code, Chapters 7, 26, and 37 of the Texas Water Code, and 30 Texas Administrative Code Chapter 30 (Subchapters A and G) and 30 Texas Administrative Code Chapter 285. The OSSF Order and can be viewed online at https://www6.tceq.texas.gov/oars/index.cfm?fuseaction=search.county by searching for Nueces County and selecting Nueces County Authorized Agent.

Nueces County Department of Public Works does not have enforcement authority for leaking OSSFs. In the event that a leaking OSSF is suspected by Nueces County Department of Public Works personnel, pertinent information will be gathered and provided to the Corpus Christi-Nueces County Department of Public Health which will investigate and correct the leaking OSSF.

CHAPTER 9 – PREVENTING AND RESPONDING TO ILLEGAL DUMPING

It can be difficult to identify and locate individuals responsible for illegal dumping; therefore, Nueces County's efforts to address illegal dumping will focus on education and prevention, with investigation and enforcement conducted if necessary.

EDUCATION AND PREVENTION

The following strategies can be used to provide education and help reduce the amount of illegal dumping that occurs:

COMMUNITY OUTREACH AND INVOLVEMENT

Outreach is the cornerstone of an illegal-dumping prevention program and can include the following components:

- Educating businesses, government employees, and the general public about the environmental and legal consequences of illegal dumping.
    - Nueces County has educational brochures and information sheets on illegal dumping available on their website and at the Nueces County Courthouse. These materials are also distributed via mail periodically.
- Providing and publicizing ways for citizens to properly dispose of waste.
    - Nueces County has an information sheet on solid waste available on their website and at the Nueces County Courthouse. This information sheet is also distributed via mail periodically.
- Making reporting illegal dumping easy for citizens to complete. Nueces County provides two phone numbers and an email address for citizens to report illegal dumping.
    - (361) 289-1492 or (361) 888-0490
    - stopillegaldumping@nuecesco.com
- Providing opportunities for citizens to get involved in preventing and reporting illegal dumping.
    - Nueces County encourages citizens to visit the Take Care of Texas and Don't Mess With Texas websites to find more ways to get involved.

SITE MAINTENANCE AND CONTROLS

Measures should be taken to clean up areas where illegal dumping has taken place, and controls such as signs or access restrictions should be used, as appropriate, to prevent further dumping. The following maintenance and controls are utilized by Nueces County:

- Solid waste pickup service is provided periodically to remove illegally dumped materials throughout Nueces County Unincorporated Areas,
- Annual Nueces River Cleanup,
- Signs are posted throughout Nueces County, including areas within the MS4, that state that dumping is illegal and provides a telephone number to make reports of illegal dumping, and
- Removal of debris from stormwater structural controls.

INVESTIGATION AND ENFORCEMENT

INVESTIGATION

Just as certain geographic areas in Nueces County are more prone to illicit discharges than others, the same can be said for illegal dumping. Often, illegal dumping occurs in the same location repeatedly. These areas can be focused on during inspections and investigations and can be determined by reviewing past reports of illegal dumping. The following areas will typically have a higher potential for illegal dumping:

- Bridges,
- Ditches,
- Dead end streets/cul-de-sacs,
- Low-traffic areas, and
- Roadsides abutted by vacant properties.

Environmental Investigators, road and bridge crews, and drive-through inspectors should be on the lookout for acts of illegal dumping when inspecting or working in the MS4. These personnel may observe materials that have been previously dumped or may come upon and witness the unauthorized placement of materials. The Illicit Discharge and Unauthorized Dumping Observation Form in Appendix E may be used for documenting incidents.

If road and bridge crews or drive-through inspectors should discover a suspected illegal dump site, it should be reported to Nueces County's Environmental Investigators who will investigate the incident to determine if illegal dumping has occurred. In the event that illegal dumping is confirmed and a responsible party is known, enforcement actions may be taken by the Environmental Investigators.

If Nueces County Department of Public Works receives an illegal dumping complaint, Nueces County Environmental Investigators will be notified to investigate the report. If enforcement authority exists and a responsible party is identified, Nueces County Environmental Investigators may initiate the enforcement process.

Safety considerations should be at the forefront of observation procedures at all times. Investigations should be conducted in groups of two or more whenever possible. Likely hazards should be anticipated and avoided. Never approach, contact, or sample a substance if the toxicity is at all suspect. Never open a sealed container to check the contents. If a highly toxic or flammable substance is discovered, personnel should leave the immediate area and contact the Nueces County Sheriff's Office at (361) 887-2222. If there is any question about an illegally dumped material, contact a supervisor.

ENFORCEMENT

Nueces County has some enforcement authority to require removal of illegally dumped materials under the Texas Health and Safety Code, Texas Water Code, Texas Penal Code, and Texas Transportation Code. Nueces County's Environmental Investigators initiate the enforcement process.

PROGRAM MEASUREMENT

Tracking and evaluation methods will be used to measure the impact of illegal-dumping prevention efforts and determine whether goals are being met.

Some specific methods that Nueces County can use to implement these strategies include the following:

- Tracking of illegal dumping incident reports and locations, and
- Compilation of information (e.g., annual cleanup costs, facility compliance, arrests, convictions, fines, complaints).

APPENDIX A – LOG OF IDDE UPDATES

Log of IDDE Updates

Date of Update	Revision Number	Description of Update
November 2015	R0	Initial plan prepared.
April 2019	R1	Added Log of IDDE Updates to plan, re-labeled appendices, re-titled “Scheduled Visual Inspection Form” as “MS4 Inspection Form”, and updated MS4 Maps.
June 2020	R2	Added information on responding to and following up on complaints received, updated contact information, re-titled “MS4 Inspection Form” as “SSC Inspection Form”, updated MS4 Maps, replaced OSSF order with current version.
December 2020	R3	Updated MS4 Map and SSC Inventory
January 2022	R4	Updated MS4 Map and SSC Inventory
November 2023	R5	Moved MS4 Maps to App. B, removed SSC Inventory/SSC Inspection Form from IDDE Manual (are now located in SSC Inspection Procedures attachment to SWMP), updated Illicit Discharge Observation Form to include Unauthorized Dumping Observation

APPENDIX B – MS4 MAPS

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

Drawn By:	TLD	Scale:	As Shown	Sheet Number:
Project Number:	160442E	Date:	1-17-2021	1 of 1

Detail Map of MS4 Area 1

Area 1 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

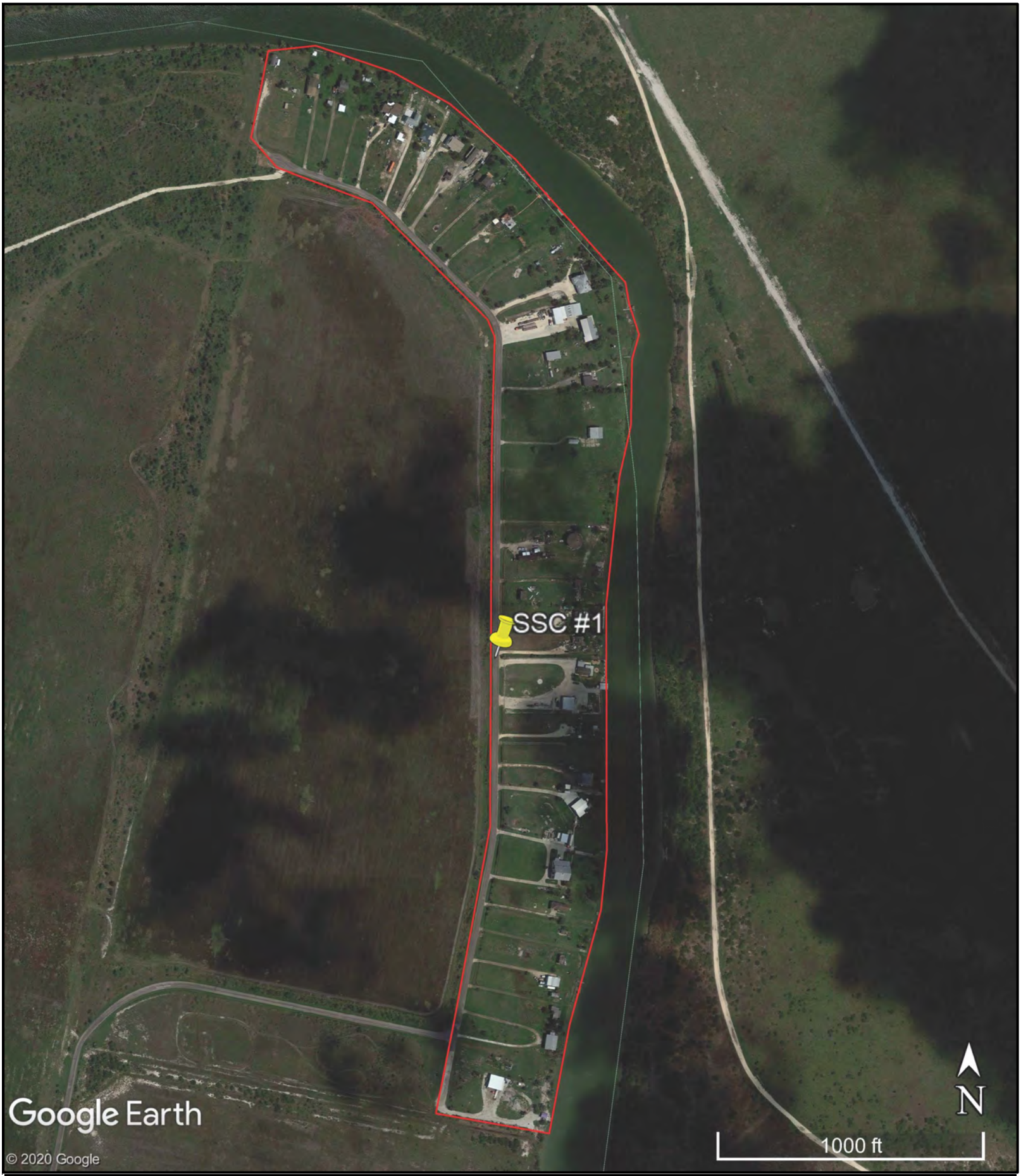
Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 2

Area 2 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442C	Date:	03-26-20	1 of 1

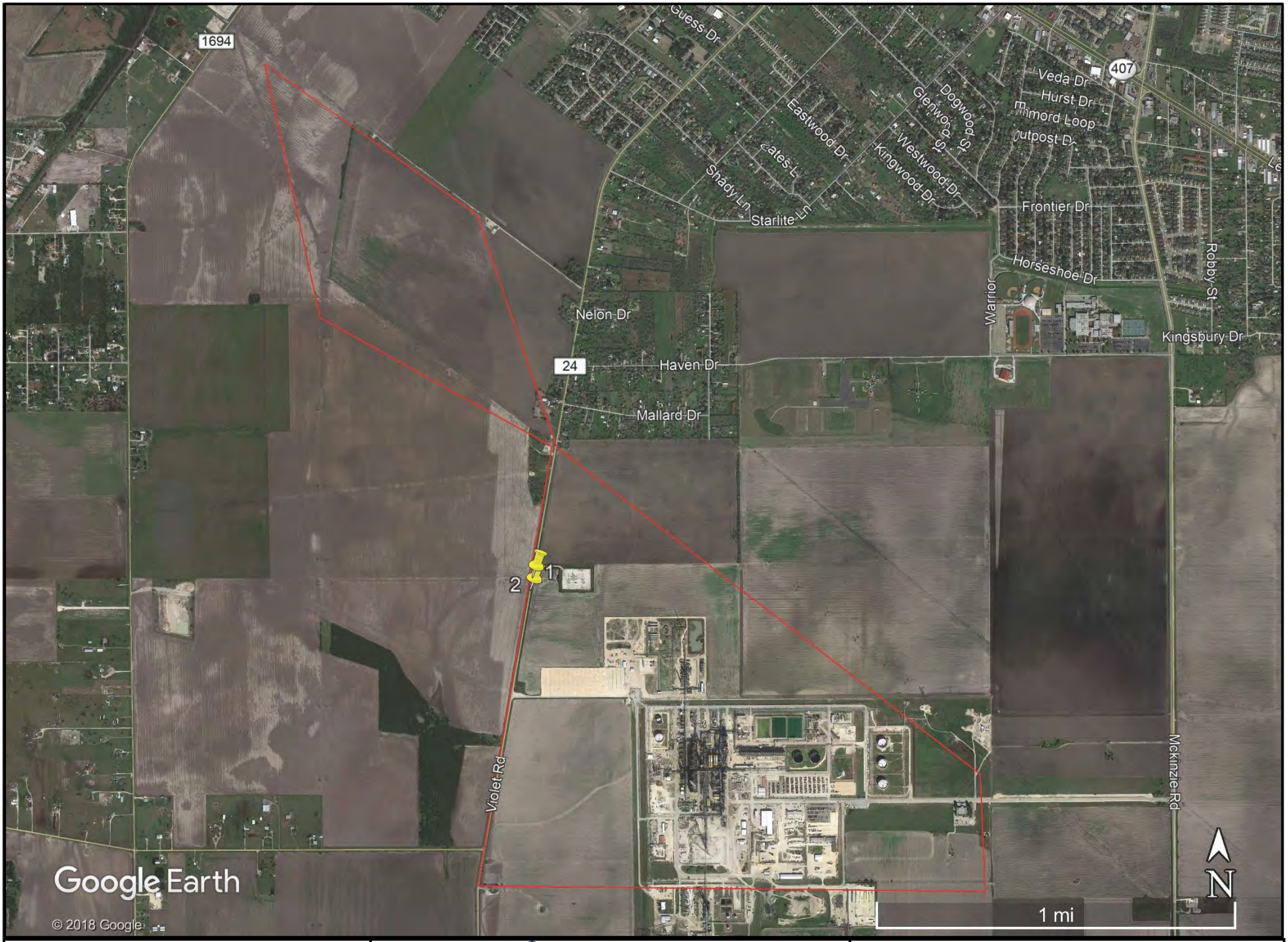
Detail Map of MS4 Area 3
Area 3 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 4
Area 4 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

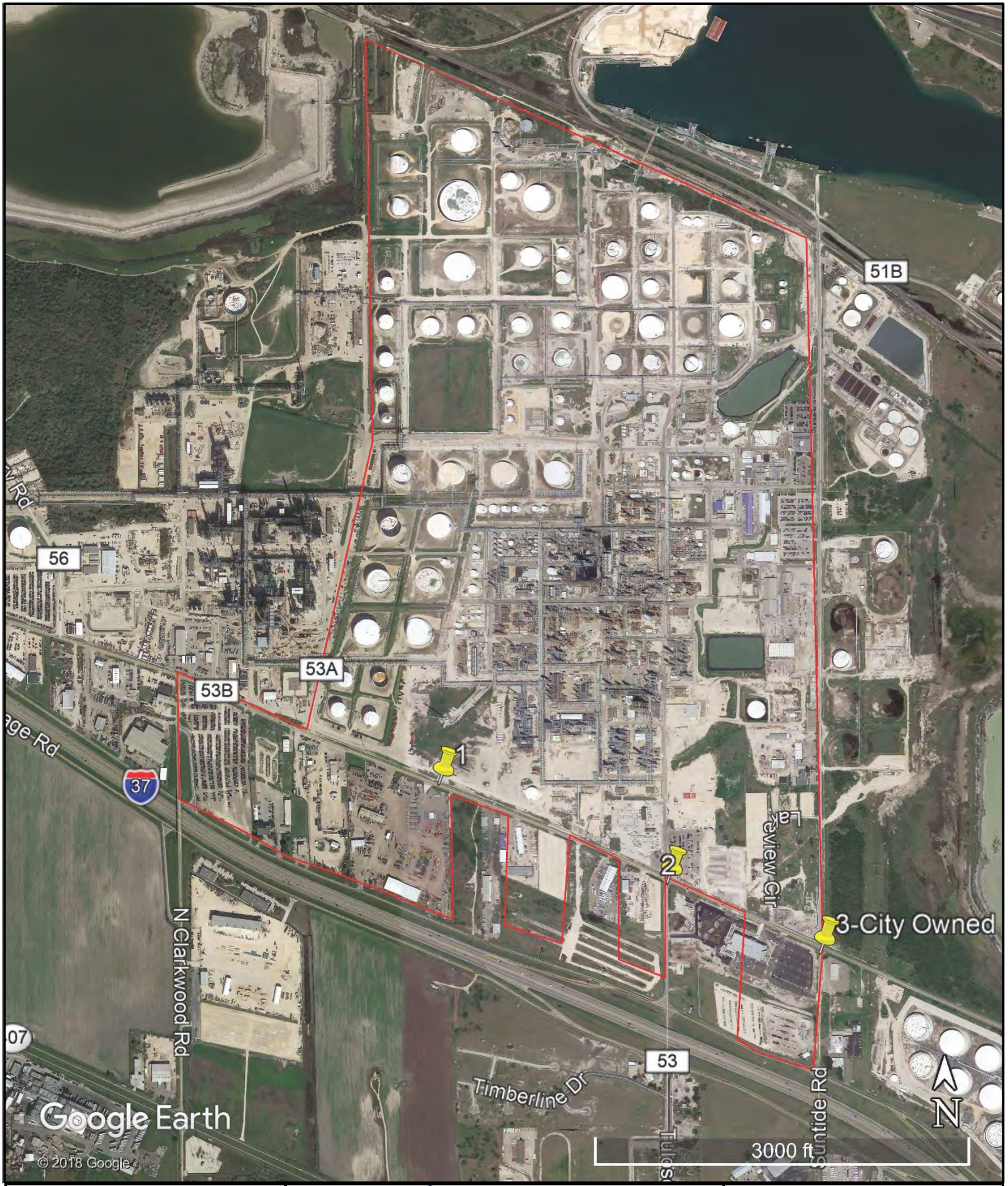
Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 5

Area 5 – Nueces County Unincorporated Area MS4
Nueces County, Texas

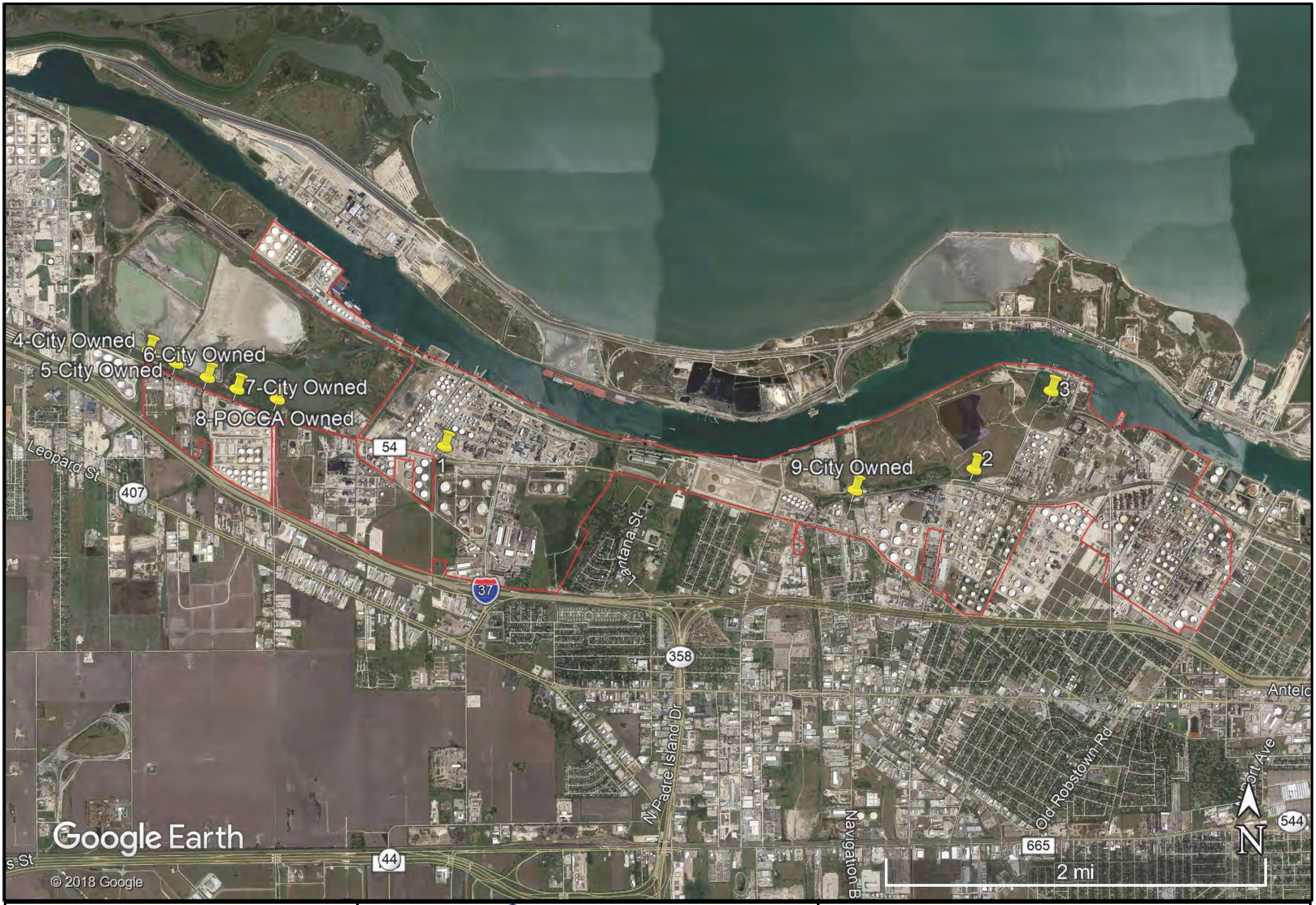


Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 6
Area 6 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 7

Area 7 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 8

Area 8 – Nueces County Unincorporated Area MS4
Nueces County, Texas

APPENDIX C – ILLICIT DISCHARGE DETECTION AND ELIMINATION INFORMATION SHEET

Illicit Discharge Detection and Elimination and Illegal Dumping Information Sheet

Nueces County has implemented a Storm Water Management Program (SWMP) to comply with Texas Pollutant Discharge Elimination System (TPDES) Permit Number TXR040000 – General Permit to Discharge. The SWMP calls for Nueces County to prepare an information sheet on Illicit Discharge Detection and Elimination (IDDE) and unauthorized dumping to provide to Nueces County employees and contractors who may encounter or observe illicit discharges or connections in the municipal separate storm sewer system (MS4).

Illicit Discharge Detection and Elimination

What is an illicit discharge?

Any discharge to a MS4 that is not entirely composed of stormwater, except discharges pursuant to this general permit or a separate authorization and discharges resulting from emergency firefighting activities.

What is an MS4?

A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

- Owned or operated by the U.S, a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district, or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under the Clean Water Act § 208 that discharges to surface water in the state;
- That is designed or used for collecting or conveying stormwater;
- That is not a combined sewer; and
- That is not part of a publicly owned treatment works as defined in 40 Code of Federal Regulations § 122.2.

Examples of illicit discharges into an MS4 include:

- Industrial process water
- Commercial car wash wastewater
- Sanitary sewer flows
- Loading area wash-down water
- Restaurant mat wash-down water
- Grease trap overflows
- Leaf/grass clippings
- Washing machine discharge
- Wastewater treatment plant effluent
- Chlorinated pool water
- Water softener brine backwash
- Used oil
- Concrete/paint equipment washout water

Signs of illicit discharge include:

- Unusual water color or cloudiness
- Strong pungent or musty odor
- Floating debris
- Surface scum or foam
- Oil sheen
- Algae
- Dead vegetation or inhibited growth
- Dead animals
- Stains on channel bottoms or sides
- Pipe corrosion

What is an illicit connection?

Any manmade conveyance connecting an illicit discharge directly to a MS4.

Illicit Discharge Detection and Elimination and Illegal Dumping Information Sheet

Illegal/Unauthorized Dumping

What is Illegal/Unauthorized dumping?

Unauthorized or illegally dumped litter means litter dumped anywhere other than in an approved solid waste site. Under Texas Health and Safety Code Title 5. Sanitation and Environmental Quality, Subtitle B. Solid Waste, Toxic Chemicals, Sewage, Litter, and Water, Chapter 365. Litter, Subchapter B. Certain Actions Prohibited, Section 365.012. Illegal Dumping; Discarding Lighted Materials; Criminal Penalties, illegal dumping is defined as follows:

(a) A person commits an offense if the person disposes or allows or permits the disposal of litter or other solid waste at a place that is not an approved solid waste site, including a place on or within 300 feet of a public highway, on a right-of-way, on other public or private property, or into inland or coastal water of the state.

(a-1) A person commits an offense if:

(1) the person discards lighted litter, including a match, cigarette, or cigar, onto open-space land, a private road or the right-of-way of a private road, a public highway or other public road or the right-of-way of a public highway or other public road, or a railroad right-of-way; and

(2) a fire is ignited as a result of the conduct described by Subdivision (1).

(b) A person commits an offense if the person receives litter or other solid waste for disposal at a place that is not an approved solid waste site, regardless of whether the litter or other solid waste or the land on which the litter or other solid waste is disposed is owned or controlled by the person.

(c) A person commits an offense if the person transports litter or other solid waste to a place that is not an approved solid waste site for disposal at the site.

Section 365.012 does not apply to the temporary storage for future disposal of litter or other solid waste by a person on land owned by that person, or by that person's agent. The commission by rule shall regulate temporary storage for future disposal of litter or other solid waste by a person on land owned by the person or the person's agent.

Section 365.012 does not apply to an individual's disposal of litter or other solid waste if:

(1) litter or waste is generated on land the individual owns;

(2) litter or waste is not generated as a result of an activity related to a commercial purpose;

(3) disposal occurs on land the individual owns; and

(4) disposal is not for a commercial purpose.

APPENDIX D – ILLICIT DISCHARGE DETECTION AND ELIMINATION TRAINING LOG

Illicit Discharge Detection and Elimination Training Log

Date: _____

Employee Name	Employee Signature

APPENDIX E – ILLICIT DISCHARGE AND UNAUTHORIZED DUMPING OBSERVATION FORM

ILLICIT DISCHARGE AND UNAUTOHRIZED DUMPING OBSERVATION FORM

DO NOT approach Violator if any danger perceived; DO NOT approach discharge, make contact with, or sample if <u>toxicity</u> is suspect; DO NOT open a sealed container to check its contents.

MS4 AREA: _____ ADDRESS/LOCATION: _____

DATE: _____ TIME: _____ OBSERVER: _____

HOW LONG SINCE LAST RAINFALL? ☐ RAINING NOW ☐ 0-2 DAYS ☐ 3 OR MORE DAYS ☐ UNKNOWN

DESCRIBE OBSERVATION: _____

SUSPECTED SUBSTANCE/MATERIAL: _____

DISCHARGE/UNAUTHORIZED DUMPING COMING FROM: _____

DISCHARGE/UNAUTHORIZED DUMPING GOING INTO: ☐ Ditch ☐ Culvert ☐ Other: _____

ANY PETROLEUM PRODUCTS PRESENT? ☐ No ☐ Yes If Yes, describe: _____

ANY ODOR TO DISCHARGE/ UNAUTHORIZED DUMPING? ☐ No ☐ Yes If Yes, describe:

ADDITIONAL INFORMATION: _____

DISCHARGER/UNAUTHORIZED DUMPER NAME/ADDRESS: _____

DISCHARGER/UNAUTHORIZED DUMPER LICENSE PLATE: _____

DISCHARGER/UNAUTHORIZED DUMPER VEHICLE DESCRIPTION: _____

COMMENTS: _____

Nueces County Construction Engineer Name and Phone Number: Bert Perez (361) 888-0490

Nueces County Environmental Investigators Phone Number: (361) 289-1492

Nueces County Sheriff's Office Phone Number: (361) 887-2222

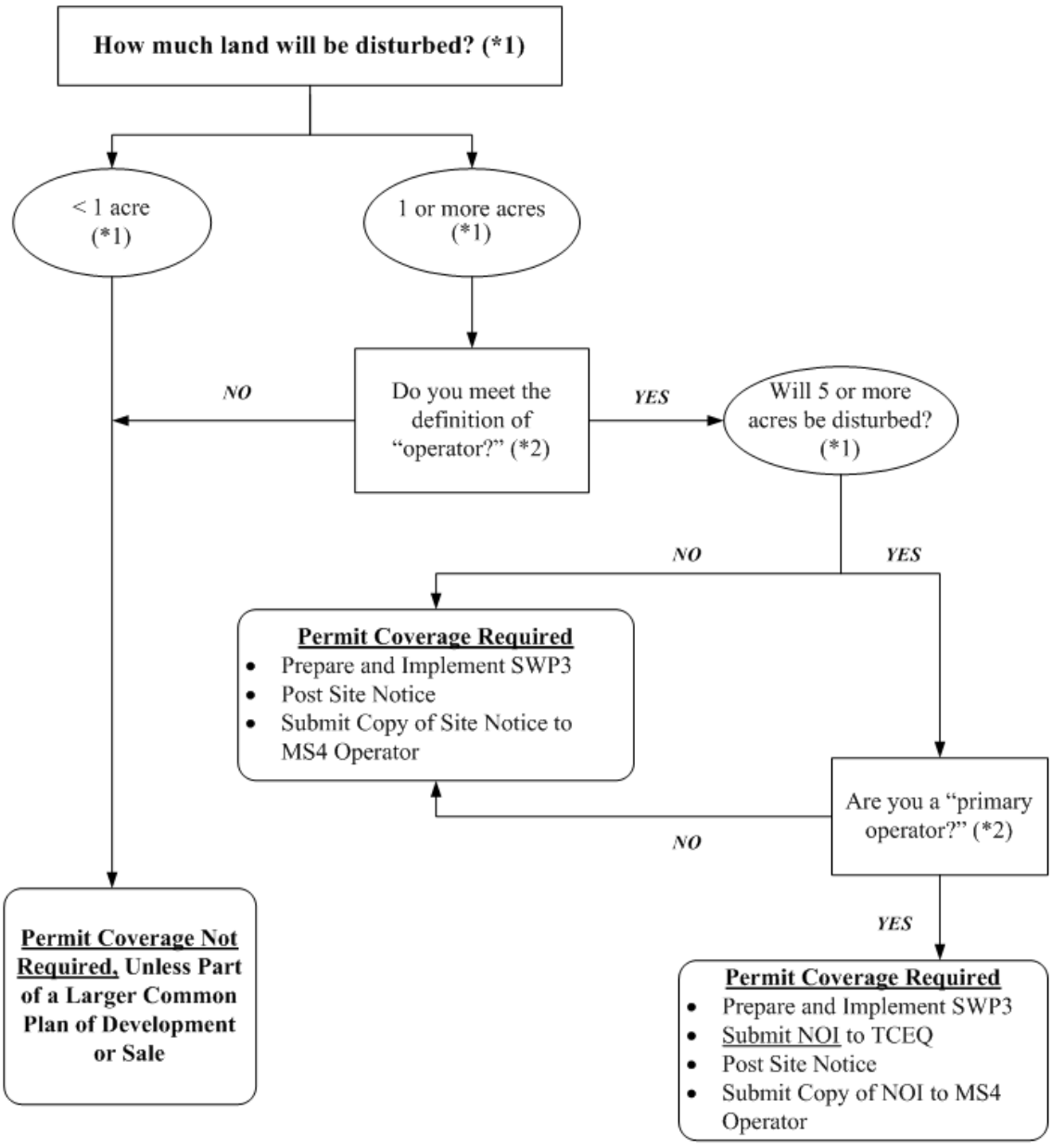
Attachment 11

SWPPP Requirement Information and Log of Personnel Receiving Information

Part I. Flow Chart and Definitions

Section A. Flow Chart to Determine Whether Coverage is Required

When calculating the acreage of land area disturbed, include the disturbed land-area of all construction and construction support activities.



(*1) To determine the size of the construction project, use the size of the entire area to be disturbed, and include the size of the larger common plan of development or sale, if the project is part of a larger project (refer to Part I.B., "Definitions," for an explanation of "common plan of development or sale").

(*2) Refer to the definitions for "operator," "primary operator," and "secondary operator" in Part I., Section B. of this permit.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

(https://www.tceq.texas.gov)

Storm Water Discharges from Construction Activities That Disturb Less Than 1 Acre

Guidelines for runoff controls from construction projects in Texas that will disturb less than an acre and are not part of a larger common plan of development.

If your construction project disturbs less than 1 acre and is not part of a **larger common plan of development (https://www.tceq.texas.gov/permitting/stormwater/construction/common_plan_of_development_steps.html)**, coverage under General Permit (**TXR150000 (/assets/public/permitting/stormwater/txr150000-cgp.pdf)**) is not required.

If your project is part of a larger plan, the total number of acres disturbed under that larger plan must be considered when determining how this general permit (**TXR150000 (/assets/public/permitting/stormwater/txr150000-cgp.pdf)**) applies to you:

- **5 or More Acres (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_5_plus_steps.html)**
- **1 to Less Than 5 Acres (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_1_to_5.html)**

Example 1. A subdivision is being built. You are grading 0.75 acres, another company is clearing 4 different acres, and a contractor is excavating another 0.5 acres. Because the **total area** that would be disturbed under this common plan is 5.25 acres, each operator would fall

under the requirements associated with disturbing **5 or more acres (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_5_plus_steps.html)**.

Example 2. At first, your project calls for you to grade, clear, or excavate a total of 0.93 acre. But after your project begins, you learn that you must disturb another 0.15 acre—perhaps to add more parking and an access road. Because this project has grown to disturb a total of 1.08 acres, you must obtain coverage under the requirements for disturbing **1 to less than 5 Acres (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_1_to_5.html)**.

You can view some of the relevant **Rules for Storm Water Discharges from Construction Activities (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_rules.html)**.

Contact us (https://www.tceq.texas.gov/permitting/stormwater/WQ_stormwater_contact.html) if you have questions.

Related content

- **Additional Guidance and Quick Links: Construction Activities (https://www.tceq.texas.gov/permitting/stormwater/construction/WQ_stormwater_construction_guidance.html)**
- **Stormwater Discharges from Small Construction Activities (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_1_to_5.html)**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

(https://www.tceq.texas.gov)

Stormwater Discharges from Large Construction Activities

Requirements for obtaining stormwater general permit coverage for construction projects that will disturb 5 or more acres, whether on their own or as part of a larger common plan of development.

Steps to Take Before Discharging

When you disturb 5 acres or more of land or are part of a larger common plan of development that will disturb 5 or more acres of land, you must follow these steps before discharging storm water to any **surface water in the state of Texas (https://www.tceq.texas.gov/permitting/stormwater/TXR15_surface_water.html)**:

1. Review your facility's **compliance history ranking (https://www.tceq.texas.gov/goto/comphistory)**:
    - If your facility is new or has a ranking of "high" or "satisfactory," continue to Step 2.
    - If it is "unsatisfactory," then your facility is not eligible for coverage under a general permit. You must apply for an **individual permit (/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.**

html) instead.

2. Read the general permit **(TXR150000) (/assets/public/permitting/stormwater/txr150000-cgp.pdf)** to make sure it applies to your situation. (Help with **PDF (https://www.tceq.texas.gov/help/help_pdf.html)**.)

3. Prepare and implement a Storm Water Pollution Prevention Plan (SWP3). For more details, see Part III of General Permit **TXR150000 (/assets/public/permitting/stormwater/txr150000-cgp.pdf)**.

4. Submit an original completed Notice of Intent (NOI) form with an original signature and fee as noted on the NOI. You have three options:

   - both the **NOI and fee payment electronically (https://www.tceq.texas.gov/permitting/stormwater/WQ_electronic.html)** through STEERS.

   - **the NOI on paper (/assets/public/permitting/waterquality/forms/20022.docx)** and the **fee payment online via ePay (https://www.tceq.texas.gov/epay)**

   - the **NOI on paper (/assets/public/permitting/waterquality/forms/20022.docx)** and the fee payment by check

5. Before starting construction, post a copy of the Site Notice at the construction site. Leave the notice posted until construction is completed.

   - **Site Notice for Primary Operators of Large Construction Activities (/assets/public/permitting/stormwater/txr15-large-primary.pdf)**

   - **Site Notice for Secondary Operators of Large Construction Activities (/assets/public/permitting/stormwater/txr15-large-secondary.pdf)**

Provisional Coverage

Provisional coverage under this general permit begins:

- Seven days after the completed NOI is postmarked for delivery to the TCEQ

- or immediately if the completed NOI is submitted electronically using **STEERS (https://www.tceq.texas.gov/goto/steers)**.

After TCEQ Review

After TCEQ review, you will receive one of the following:

- an Acknowledgment Certificate acknowledging your coverage under this general permit.
- a Notice of Deficiency if there is insufficient information in your application, in which case you will have 30 days to respond.
- a Denial Letter informing you that coverage has been denied (usually the result of information requested in a Notice of Deficiency letter not being fully provided).

Steps to Take After Obtaining Coverage

After obtaining coverage under this permit:

1. Adhere to the requirements of General Permit **TXR150000 (/assets/public/permitting/stormwater/txr150000-cgp.pdf)**.
2. Submit a **Notice of Termination** (NOT) within 30 days after one or more of the following occurs:
    - final stabilization has occurred
    - another permitted operator has assumed control over all areas of the site that have not been finally stabilized and all silt fences and other temporary erosion control measures have either been removed, scheduled for removal, or transferred to a new operator as described in the Storm Water Pollution Prevention Plan
    - authorization was granted under an **individual permit (https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html)**
3. If the operator changes, the new operator must submit a Notice of Intent (NOI) and then the existing operator must submit a **Notice of Termination** (NOT). The NOT and NOI must be submitted at least 10 days before the change.

4. If you are discharging to gutters, streets, channels, ditches or any other **Municipal Separate Storm Water Sewer System (https://www.tceq.texas.gov/permitting/stormwater/ms4/WQ_ms4_definition.html)** (MS4) - which includes anything designed or used to collect or transport storm water - you must submit a copy of each of these items to the operator of that system at the same time you submit that item to the TCEQ:
    - Notice of Intent
    - Notice of Change, which is used if the operator becomes aware of failing to submit any relevant information or submitting incorrect information.
    - Notice of Termination

Even if the general permit described above applies to your situation, you may opt to request coverage under an **individual permit (/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html)**.

You can view some of the relevant **Rules for Storm Water Discharges from Construction Activities (https://www.tceq.texas.gov/permitting/stormwater/construction/WQ_stormwater_construction_guidance.html)**.

Notice of Change

A **Notice of Change (/assets/public/permitting/waterquality/forms/20391.docx)** is required to be submitted for making updates, changes, or corrections to an NOI or Waiver as required in the general permit.

Notice of Termination

Notice of Termination can be submitted in one of the following ways:

- **ePermits online applications (https://www.tceq.texas.gov/goto/steers)** (HTML): This link takes you to the TCEQ's STEERS webpage, which is the State of Texas Environmental Electronic Reporting System. STEERS allows you to instantly terminate a permit (Notice of Termination) even if the NOI was submitted via paper

- **Paper NOT (/assets/public/permitting/waterquality/forms/20023.docx)**

New Effluent Limits

On December 1, 2009, the U.S. Environmental Protection Agency (EPA) published **effluent limitations guidelines (http://www.epa.gov/guide/construction/) (https://www.tceq.texas.gov/help/policies/linking_policy.html)** (ELGs) and new source performance standards (NSPS) to control the discharge of pollutants from construction sites, **40 CFR Part 45 (https://www.gpo.gov/fdsys/pkg/CFR-2014-title40-vol30/xml/CFR-2014-title40-vol30-part450.xml) (https://www.tceq.texas.gov/help/policies/linking_policy.html)**. The regulation was effective on February 1, 2010. After this date, all permits issued by the EPA or states must incorporate the requirements of the final rule.

According to the ELGs, all construction sites that are currently required to obtain permit coverage must implement a range of erosion and sediment controls and pollution prevention measures and meet a numeric effluent limit for turbidity of 280 NTU (nephelometric turbidity units) for certain large sites. The ELGs also state that, beginning on August 1, 2011 all sites that disturb 20 or more acres of land at one time would be required to comply with the turbidity limitation. On February 2, 2014 the limitation would apply to all construction sites disturbing 10 or more acres of land at one time.

Since the adoption of this rule, the EPA has stayed the numeric effluent limit for turbidity of 280 NTU until it made corrections to the numeric effluent limitation. On March 9, 2014, the EPA revised the rules to provide clarfications on the applicability of several requirements of the 2009 rule and to withdraw the numeric turbidity effluent limitation and monitoring requirements.

The TPDES Construction General Permit (CGP), TXR150000, was issued on March 5, 2013, and the effluent limits described in this rule (**40 CFR 450 (http://www.ecfr.gov/cgi-bin/text-idx?SID=a54af086be7786287df3015bcc115895&mc=true&node=pt40.30.450&rgn=div5) (https://www.tceq.texas.gov/help/policies/linking_policy.html)**) were incorporated into the re-issued permit, with the exception of the turbidity limitation. Facilities in Texas operating under the TPDES CGP are not currently required to meet the turbidity effluent limit in this rule. The TCEQ has adopted 40 CFR Part 450 by reference into state rules at **30 TAC §305.541**

(http://texreg.sos.state.tx.us/public/readtac%24ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=305&rl=541) **(https://www.tceq.texas.gov/help/policies/linking_policy.html)**, Effluent Guidelines and Standards for TPDES Permits. For additional information, see our **rules (https://www.tceq.texas.gov/rules)**.

Contact us (https://www.tceq.texas.gov/permitting/stormwater/WQ_stormwater_contact.html) if you have questions.

Related content

- **Additional Guidance and Quick Links: Construction Activities (https://www.tceq.texas.gov/permitting/stormwater/construction/WQ_stormwater_construction_guidance.html)**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

(https://www.tceq.texas.gov)

Stormwater Discharges from Small Construction Activities

Requirements for stormwater permits for construction sites that disturb at least 1 acre but less than 5 acres and are not part of a larger common plan of development.

- **Obtaining Authorization**
- **Effluent Limits**

*Caution: If your project is part of a **larger common plan of development (https://www.tceq.texas.gov/permitting/stormwater/construction/common_plan_of_development_steps.html)**, and the total number of acres disturbed under the plan is 5 acres or more, then your project is not a small construction activity. You must comply with the requirements for **Construction Activities Disturbing 5 or More Acres (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_5_plus_steps.html)**.*

Obtaining Authorization

When you disturb less than 5 acres (but at least 1 acre) of land there are several ways to obtain authorization under the general permit depending on the specifics of your construction activity:

1. For a small construction activity you may follow the steps necessary for coverage under the **notice option (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_site_notice_steps.html)**.

2. If you disturb **less than 1 acre of land (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_less_than_1_steps.html)**, you do not need coverage under this general permit to discharge stormwater.

3. If construction is to take place in a particular county during a particular time period when erosion is expected to be minimal (see Appendix A of **TXR150000 (/assets/public/permitting/stormwater/txr150000-cgp.pdf)**), you may be eligible for regulation under the **Low Potential for Erosion Requirements (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_low_potential_erosion.html)**. (Help with **downloading files (https://www.tceq.texas.gov/help/helpcmpr.html)**.)

4. If the potential for soil to wash away during your construction activity is low, you may qualify for the **Low Rainfall Erosivity Waiver (https://www.tceq.texas.gov/permitting/stormwater/construction/TXR15_waiver_steps.html)**.

5. Even if you are eligible for coverage under a general permit, you may opt to request coverage under an **individual permit (https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html)**.

6. If your activity is associated with the production or exploration of oil and gas, your project may be under the jurisdiction of the **Texas Railroad Commission (http://www.rrc.state.tx.us) (https://www.tceq.texas.gov/help/policies/linking_policy.html)** and you may need authorization under the **National Pollution Discharge Elimination System program (https://www.epa.gov/npdes) (https://www.tceq.texas.gov/help/policies/linking_policy.html)**.

Effluent Limits

On December 1, 2009, the U.S. Environmental Protection Agency (EPA) published **effluent limitations guidelines (http://www.epa.gov/guide/construction/) (https://www.tceq.texas.gov/help/policies/linking_policy.html)** (ELGs) and new source performance standards to control the discharge of pollutants from construction sites, **40 CFR Part 450 (http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr450_main_02.tpl)**

(https://www.tceq.texas.gov/help/policies/linking_policy.html). The regulation was effective on February 1, 2010. After this date, all permits issued by EPA or states must incorporate the final rule requirements.

According to the ELGs, all construction sites that are currently required to obtain permit coverage must implement a range of non-numeric effluent limits in the form of erosion and sediment controls and pollution prevention measures. Small construction projects that are not part of a larger common plan of development don't have numeric effluent limits.

TCEQ adopted 40 CFR Part 450 by reference into state rules at **30 TAC 305.541 (http://texreg.sos.state.tx.us/public/readtac%24ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=30&pt=1&ch=305&rl=541)** **(https://www.tceq.texas.gov/help/policies/linking_policy.html)**, Effluent Guidelines and Standards for TPDES Permits. For additional information, see our **rules (https://www.tceq.texas.gov/rules)**.

We encourage you to **Contact us (https://www.tceq.texas.gov/permitting/stormwater/WQ_stormwater_contact.html)** if you have difficulty determining which method of authorization best meets your particular circumstance.

Log of Personnel Receiving Stormwater Pollution Prevention Plan (SWPPP) Requirement Information

Date	Employee Name	Employee Signature

Attachment 12

Construction Project SWPPP Review Log

Construction Projects in Nueces County Unincorporated Area MS4 Stormwater Pollution Prevention Plan (SWPPP) Review Log

Date	Construction Project	Construction Operator	SWPPP Required
9/16/2015	Trafigura Terminals	Unknown	Yes, unknown if site has prepared SWPPP
9/16/2015	AEP Substation	AEP	Yes, available on-site
9/16/2015	NuStar Tank Farm	NuStar Logistics, L.P.	Yes, unknown if site has prepared SWPPP; Notice of Intent (NOI) not found in search of TCEQ database
12/22/2015	Drainage Ditch at CR 69	Unknown	No, below TCEQ acreage threshold
12/22/2015	Wooden Walkway at Hazel Bazemore Park	Nueces County Inland Parks	No, below TCEQ acreage threshold
3/29/2016	Home at end of River Trail Drive	Unknown	No, below TCEQ acreage threshold
3/29/2016	Boat Ramp at Hazel Bazemore Park	Unknown	No, below TCEQ acreage threshold
3/29/2016	New Flint Hills Office	Flint Hills Resources	Yes, SWPPP prepared/ NOI submitted
3/21/2018	New Harbor Bridge – Adjacent to Area 8	Flatiron Dragados/ Jimenez Engineering Solutions, LLC.	Yes, SWPPP prepared/ NOI submitted
9/25/2018	Natural Gas Fractionation Unit – Adjacent to Area 5	Epic Y Grade Logistics	Yes, SWPPP prepared/ NOI submitted
12/12/2018	Single family home	N/A	No, acreage below SWPPP requirement
12/12/2018	Land clearing along CR 75 and CR 56 – Adjacent to Area 1	Unknown	Yes, unknown if site has prepared SWPPP – recommended to refer to TCEQ
6/25/2019	Cement terminal	Spaw Glass Contractors Inc.	Yes, SWPPP prepared/NOI submitted
9/4/2020	Oil marine terminal	POTAC	Yes, SWPPP prepared/NOI submitted
11/24/2020	Water pipeline installation	Unknown	No, acreage below SWPPP requirement
6/25/2021	Road work occurring on CR73A	Unknown	No, acreage below SWPPP requirement
6/25/2021	Single family home	Unknown	No, acreage below SWPPP requirement
12/9/2021	Road work occurring on CR 73	Unknown	No, acreage below SWPPP requirement

Date	Construction Project	Construction Operator	SWPPP Required
12/9/2021	Ditch excavation/ grading along CR 73A	Unknown	No, acreage below SWPPP requirement

Construction Projects in Nueces County Unincorporated Area MS4
Stormwater Pollution Prevention Plan (SWPPP) Review Log

Date	Construction Project	Construction Operator	SWPPP Required

Attachment 13

Construction Project Document Review Log

Construction Project Document Review Log

Date	Construction Project	Construction Operator	Plans Reviewed?

Attachment 14

Log of Public Inquiries Relating to Stormwater at Construction Projects

Log of Public Inquiries Relating to Stormwater at Construction Projects

Date	Name and Contact Information of Inquirer	Construction Site Location	Report Description

Attachment 15

Construction Site Inspection Procedures

NUECES COUNTY UNINCORPORATED AREA MS4 – CONSTRUCTION SITE INSPECTION PROCEDURES

NUECES COUNTY PUBLIC WORKS DEPARTMENT

November 2023

Contents

Appendices

1. INTRODUCTION

The Stormwater Management Program (SWMP) for Nueces County Unincorporated Areas requires that Nueces County personnel begin conducting periodic inspections on selected construction sites within the Municipal Separate Storm Sewer System for which Nueces County has permitting authority or is the owner and/or operator. The SWMP was prepared in accordance with TPDES Permit Number TXR040000 – General Permit to Discharge Under the TPDES under provisions of 402 of the Clean Water Act and Chapter 26 of the Texas Water Code, for Small Municipal Separate Storm Sewer Systems (MS4), issued on January 24, 2019.

Nueces County has no legal authority to enter or enforce sites that are not owned and/or operated by Nueces County. This Construction Site Inspection Procedure (Procedure) is intended to be used as a resource during periodic inspections and includes measures for evaluating compliance of stormwater controls at selected construction sites. Observation and referral procedures for construction sites within the MS4 that are not under Nueces County's authority are also provided in this Procedure. A log of updates to this Procedure is provided in Appendix A.

2. CONSTRUCTION SITE INSPECTION PROCEDURE COMPONENTS

A stormwater Construction Site Inspection Procedure should include or address the following:

- Employee Training and Education
- Contractor Education
- Site Selection
- Notice of Intent Provision and Recordkeeping
- Construction Requirements and BMPs
- Stormwater Pollution Prevention Plan Review Procedures
- Construction Site Inspections
- Enforcement Procedures
- Observation and Referral Procedures for Non-Jurisdictional Sites

3. EMPLOYEE TRAINING AND EDUCATION

Nueces County employees who may select construction sites for inspection, review Stormwater Pollution Prevention Plans, or conduct construction site inspections will review this Construction Site Inspection Procedure. A training log of employees who have completed review of this Procedure is included as Appendix B.

4. CONTRACTOR EDUCATION

Nueces County has prepared a Contractor Stormwater Information Sheet to provide to Contractors who may perform construction activities within the MS4. This sheet and a log of contractors who have received the sheet are included in Appendix C. The information sheet covers information on potential pollution sources from construction sites, pollution prevention measures, good housekeeping practices, and proper waste disposal methods.

5. SITE SELECTION

Nueces County owned and/or operated sites selected for inspection will be chosen based on the type and size of the project as well as the site's proximity to environmentally sensitive locations. Additional site selection factors may be found in the Texas Commission on Environmental Quality (TCEQ) General Permit No.

TXR150000 (Construction General Permit – CGP). Coverage under the CGP is required if a proposed project will disturb five or more acres, at least one but less than five acres, or is part of a larger common plan of development that will disturb at least one but less than five acres. This Construction Site Inspection Procedure can be used for projects that require a CGP as well as smaller sites.

A record of construction sites that have been selected for inspection will be documented in the Construction Site log provided in Appendix D.

6. NOTICE OF INTENT PROVISION AND RECORDKEEPING

A requirement of the CGP is for the construction site operator to provide a copy of their Notice of Intent (NOI) to discharge stormwater to any MS4 that may receive stormwater discharge. As owner and/or operator of a construction site, Nueces County will have access to all NOIs submitted for construction projects within the MS4. If a construction site requires coverage under the TCEQ CGP, the inspector may also search the TCEQ Central Registry Query – Customer Search website at http://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch to determine if the contractor has filed for coverage under the CGP. Records of NOIs for Nueces County owned and/or operated sites should be stored in Appendix E of this Procedure. Records of NOIs received or found during database queries for Non-Nueces County owned and/or operated construction sites should also be stored in Appendix E.

7. CONSTRUCTION REQUIREMENTS AND BMPS

A Stormwater Pollution Prevention Plan (SWPPP) is required to be prepared for sites that discharge under the CGP. SWPPPs include site information, recommended Best Management Practices (BMPs) and Good Housekeeping Measures, contact information, and personnel authorizations. Construction site inspections are conducted to ensure that site operations match the actions recommended in the site's SWPPP, and that all precautions are taken to prevent pollutants and sediment from the construction site from impacting local waterways. Best Management Practices (BMPs) that can be used for this purpose include, but are not limited to:

- Training,
- Silt fencing,
- Rock filter dams,
- Construction site entrance/exit,
- Erosion control mats,
- Interim and permanent seeding,
- Dewatering,
- Straw/hay bale barriers,
- Limitation of disturbed surfaces, and
- Proper storage, handling, and disposal of construction materials.

8. CONSTRUCTION SITE INSPECTIONS

Construction site inspectors are expected to determine the adequacy of BMPs selected and implemented by the construction contractor. The Construction Site Stormwater Inspection Report provided in Appendix F shall be used by the inspector during site visits.

Construction site inspectors should abide by the following guidelines:

- Inspections to monitor stormwater compliance should be performed at least once per quarter at each active construction site, with priority placed on sites that require coverage under the TCEQ CGP and

are located in the watershed of any 303(d) water bodies.

- The inspection shall begin at a low point and work uphill, observing all discharge points and any off-site support activities.
- Written and photographic records shall be maintained for each site visit.
- During the inspection, the inspector should ask questions of the contractor. Understanding the selection, implementation, and maintenance of BMPs is an important goal of the inspection process, and requires site-specific input.
- The inspector should not recommend or endorse solutions or products. The inspector may offer appropriate advice, but all decisions must be made by the contractor.
- The inspector shall always wear personal protective equipment appropriate for the site.
- The inspector shall abide by the contractor's site-specific safety requirements.
- The inspector has authority to enter the site. However, if denied permission to enter the site, the inspector should never force entry.

The Construction Site Inspection Procedure process should include the following:

- Plan the inspection before visiting the construction site.
    - Obtain and review permits, site plans, previous inspection reports, and any other applicable information.
    - Review NOI from Nueces County's records or from the TCEQ Central Registry website (http://www15. tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch.
    - Inform the contractor of the planned site visit.
- Meet with the contractor.
    - Get a general overview of the project from the contractor.
    - Review the Construction SWPPP.
    - Confirm that information shown on NOI continues to be accurate.
    - Review reports of inspections done by the contractor.
    - Review the status of any issues or corrective actions noted in previous inspection reports.
    - Discuss any complaints or incidents since the last meeting.
- Inspect perimeter controls.
    - Determine if perimeter controls are adequate, properly installed, and properly maintained.
    - For each structural BMP, check structural integrity to determine if any portion of the BMP needs to be replaced or requires maintenance.
- Inspect slopes and temporary stockpiles.
    - Determine if sediment and erosion controls are effective.
    - Look for slumps, rills, and tracking of stockpiled materials around the site.
- Compare BMPs in the site plan with the construction site conditions.
    - Determine whether BMPs are in place as specified in the SWPPP, and if the BMPs have been adequately installed and maintained.
    - Note any areas where additional BMPs may be needed which are not specified in the SWPPP.
- Inspect site entrances/exits.
    - Determine if there has been excessive tracking of sediment from the site.
    - Look for evidence of additional entrances/exits which are not on the site plan and are not properly stabilized.
- Inspect sediment basins.
    - Check for signs that sediment has accumulated beyond 50% of the original capacity of the basin.
- Inspect pollution prevention and good housekeeping practices.

  - Inspect trash areas and material storage/staging areas to ensure that materials are properly maintained and that pollutant sources are not exposed to rainfall or runoff.
  - Inspect vehicle/equipment fueling and maintenance areas for the presence of spill control measures and for evidence of leaks or spills.
- Inspect discharge points and downstream, off-site areas.
  - Walk down the street and/or in other directions off-site to determine if erosion and sedimentation control measures are effective in preventing off-site impacts.
  - Inspect down-slope catch basins to determine if they are protected, and whether sediment buildup has occurred.
- Meet with the contactor again prior to leaving.
  - Discuss the effectiveness of current controls and whether modifications are needed.
  - Discuss possible violations or concerns noted during the site inspection, including discrepancies between approved site plans, the SWPPP, and/or the implementation of stormwater controls.
  - Agree on a schedule for addressing all discrepancies, and schedule a follow-up inspection.
- Provide a written copy of the inspection report to the contractor.
- Follow up, as determined, and provide copy of subsequent inspection to the contractor.

9. ENFORCEMENT PROCEDURES

For Nueces County owned and operated sites, addressing discrepancies between site conditions and the SWPPP or adding additional BMPs will be managed through Nueces County and the contractor (if Non-Nueces County contractor).

Nueces County has no legal authority to enter or enforce sites that are not owned and/or operated by Nueces County. For Non-Nueces County owned or operated construction sites located in the MS4, observations may be made from the roadway. If a site notice or SWPPP is posted in an easily accessible location from the roadway, the notice or SWPPP may be viewed and photographed. Information regarding the construction operator and site conditions should be gathered by observing signs posted at the site, noting and photographing the presence or absence of BMPs, and recording the site location via a coordinate system or an address location. Once this information is reviewed, a search can be done to determine if the site has submitted an NOI to TCEQ (if required to). If it appears that no NOI has been submitted for the site, or that a potential for sediment or pollutants to enter the MS4 exists, a summary letter will be prepared and sent to the regional TCEQ office at the following address:

Regional Director: Susan Clewis
NRC Bldg. Ste. 1200
6300 Ocean Dr. Unit 5839
Corpus Christi, TX 78412-5839

The letter should identify the operator if possible and describe the location and size of the any selected construction sites, applicable regulations, BMPs present or absent, the potential impact of the construction site on the MS4, and a request for TCEQ to investigate whether the construction activities are in compliance with applicable permitting and SWPPP requirements.

Appendix A – Procedure Update Log

Log of Construction Site Inspection Procedures Updates

Date of Update	Revision No.	Description of Update
November 2015	R0	Initial plan prepared.
November 2023	R1	Plan updated with TCEQ technical review of SWMP.

Appendix B – Training Log

Construction Site Inspection Procedure Training Log

Date: _____

Employee Name	Employee Signature

Appendix C – Contractor Stormwater Information Sheet and Log

Stormwater Pollution Prevention Measures, Good Housekeeping Practices, and Proper Waste Disposal Methods

Goal of Information Sheet

Provide information on stormwater pollution prevention measures, good housekeeping practices, and proper waste disposal methods to contractors who may perform maintenance activities on Nueces County owned facilities within the Municipal Separate Storm Sewer System (MS4)

Potential Pollution Sources at Construction Sites

- Paint
- Used Oil and Asphalt in Aboveground Storage Tanks
- Gasoline or Diesel Fuel Pumps
- Suspended Solids from Stockpiles of Road Materials
- Leaking Vehicles and Equipment
- Scrap Metal Storage Areas

Pollution Prevention Measures

- Prepare and follow a Stormwater Pollution Prevention Plan for facility or activities conducted
- Utilize environmentally benign materials in place of materials that are known pollutants
- Use Good Housekeeping Practices
- Store chemicals within covered areas and where there are no connections to storm drains
- Check conditions of waste fluid storage containers
- Check for staining from leaking vehicles/equipment in parking lots
- Handle and store materials properly

Good Housekeeping Practices

- Ensure drainage paths/gutters are free of obstructions
- Use drip pans under leaking vehicles or equipment
- Store all materials in proper location and in proper container
- Never leave open containers unattended
- Transfer used fluids to proper containers
- Use a funnel when pouring if necessary
- Label contents of ALL containers
- Make sure container is completely closed before transporting to another location
- Use both hands when lifting or carrying a container
- If container is too heavy, get another person to help
- Properly dispose of materials
- Cleanup spills immediately

Proper Waste Disposal Methods

- Health and Safety Code – Title 5. Sanitation and Environmental Quality, Subtitle B. Solid Waste, Toxic Chemicals, Sewage, Litter, and Water, Chapter 361. Solid Waste Disposal Act
- Proper disposal of waste materials depends partly on the type of contaminant. Hazardous wastes (such as flammable petroleum products and solvents, thinners) and materials contaminated with hazardous wastes are considered regulated wastes, and should be containerized for transport and disposal by a permitted company in accordance with applicable laws and regulations. Disposal also depends on the amount of contaminant.
- Trash or debris generated during construction should be contained on site and disposed of in a recycling bin or waste receptacle in accordance with applicable laws and regulations to prevent wind or rain from carrying it off-site into a storm drain or waterway.
- Petroleum wastes, such as waste oil and used oil filters, must be containerized for recycling or disposal by the contractor.
- Non-hazardous solid wastes, such as general construction debris may be recycled or disposed of in the trash container.
- Never dispose of liquid wastes of any kind in dumpsters
- No substance may be dumped or leaked onto the ground or allowed to run-off of a construction site that might cause pollution. The contractor is responsible for preventing pollutant contaminated run-off and proper disposal of all waste materials generated as a result of the contractor's activities

Log of Contractors who have Received Information Sheet

Date	Contractor Name	Contractor Provided with Information Sheet?

Appendix D – Construction Site Inspection Log

Construction Site Inspection Log

Construction Site Operator/Site Description	Construction Site Location (Address or Coordinates)	Date of Inspection
Trafigura Terminals, LLC (marine terminal)	27° 49' 11.47" north latitude, 97° 30' 26.95" west longitude	9/16/2015 – Observations noted during 3rd quarter drive-through MS4 inspection; site was not entered.
American Electric Power (substation)	27° 49' 09.51" north latitude, 97° 30' 21.22" west longitude	9/16/2015 – Observations noted during 3rd quarter drive-through MS4 inspection; site was not entered.
NuStar Logistics, L.P. (tank farm)	27° 49' 07.87" north latitude, 97° 24' 07.07" west longitude	9/16/2015 – Observations noted during 3rd quarter drive-through MS4 inspection; site was not entered.
Unknown (drainage ditch at CR 69)	27° 51' 26.96" north latitude, 97° 38' 37.53" west longitude	12/22/2015 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Nueces County Inland Parks (wooden walkway at Hazel Bazemore Park)	27° 52' 17.64" north latitude, 97° 38' 39.74" west longitude	12/22/2015 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Unknown (home at end of River Trail Drive)	27° 52' 41.17" north latitude, 97° 40' 11.87" west longitude	3/29/2016 – Observations noted during 1st quarter drive-through MS4 inspection; site was not entered.
Unknown (boat ramp at Hazel Bazemore Park)	27° 52' 02.73" north latitude, 97° 38' 23.04" west longitude	3/29/2016 – Observations noted during 1st quarter drive-through MS4 inspection; site was not entered.
Flint Hills Resources (new office building)	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	3/29/2016 – Observations noted during 1st quarter drive-through MS4 inspection; site was not entered.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	3/21/2018 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	6/27/2018 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	9/25/2018 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	9/25/2018 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	12/12/2018 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	12/12/2018 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.

Construction Site Operator/Site Description	Construction Site Location (Address or Coordinates)	Date of Inspection
Unknown (home on Lone Oak Drive)	27° 52' 02.17" north latitude, 97° 41' 15.28" west longitude	12/12/2018 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Unknown (land clearing along CR 75 and CR 56)	27° 52' 49.08" north latitude, 97° 41' 31.01" west longitude	12/12/2018 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	3/11/2019 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	3/11/2019 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48' 59.25" north latitude, 97° 24' 53.54" west longitude	3/11/2019 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	6/25/2019 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	6/25/2019 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48' 59.25" north latitude, 97° 24' 53.54" west longitude	6/25/2019 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	9/26/2019 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	9/26/2019 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48' 59.25" north latitude, 97° 24' 53.54" west longitude	9/26/2019 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	12/4/2019 – Observations noted during 4th quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49' 28.49" north latitude, 97° 31' 15.18" west longitude	12/4/2019 – Observations noted during 4th quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48' 59.25" north latitude, 97° 24' 53.54" west longitude	12/4/2019 – Observations noted during 4th quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49' 09.94" north latitude, 97° 23' 41.27" west longitude	3/25/2020 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.

Construction Site Operator/Site Description	Construction Site Location (Address or Coordinates)	Date of Inspection
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49’ 28.49” north latitude, 97° 31’ 15.18” west longitude	3/25/2020 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48’ 59.25” north latitude, 97° 24’ 53.54” west longitude	3/25/2020 – Observations noted during 1st quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49’ 09.94” north latitude, 97° 23’ 41.27” west longitude	6/17/2020 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Epic Y Grade Logistics (natural gas fractionation unit) – adjacent to Area 5	27° 49’ 28.49” north latitude, 97° 31’ 15.18” west longitude	6/17/2020 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Spawglass LLC – west end of Area 8	27° 48’ 59.25” north latitude, 97° 24’ 53.54” west longitude	6/17/2020 – Observations noted during 2nd quarter drive-through MS4 inspection; site was driven through.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49’ 09.94” north latitude, 97° 23’ 41.27” west longitude	9/3/2020 – Observations noted during 3rd quarter drive-through MS4 inspection; site was driven through.
POTAC – Area 7	27° 48’ 59.92” north latitude, 97° 29’ 35.28” west longitude	9/4/2020 – Observations noted during 3rd quarter drive-through MS4 inspection; site was not entered.
Unknown (boat ramp project at Hazel Bazemore Park)	27° 52’ 02.73” north latitude, 97° 38’ 23.04” west longitude	9/4/2020 – Observations noted during 3rd quarter drive-through MS4 inspection; site was not entered.
Water pipeline installation along CR 73	27° 52’ 08.88” north latitude, 97° 40’ 29.60” west longitude	11/24/2020 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Unknown (boat ramp project at Hazel Bazemore Park)	27° 52’ 02.73” north latitude, 97° 38’ 23.04” west longitude	11/24/2020 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
POTAC – Area 7	27° 48’ 59.92” north latitude, 97° 29’ 35.28” west longitude	11/24/2020 – Observations noted during 4th quarter drive-through MS4 inspection; site was not entered.
Flatiron Dragados/Jimenez Engineering Solutions, LLC. (new Harbor Bridge) – adjacent to Area 8	27° 49’ 09.94” north latitude, 97° 23’ 41.27” west longitude	11/24/2020 – Observations noted during 4th quarter drive-through MS4 inspection; site was driven through.

Construction Site Inspection Log

Construction Site Operator/Site Description	Construction Site Location (Address or Coordinates)	Date of Inspection

Appendix E – NOIs for Construction Projects within MS4

Appendix F – Construction Site Stormwater Inspection Report

CONSTRUCTION SITE STORMWATER INSPECTION REPORT

General Information

Project Name				
Project Location				
Site Operator				
Inspector's Name				
Date of Inspection				
Start Time				
Subject to TCEQ Construction General Permit?	Yes	☐	No	☐
If yes, has NOI been submitted? If yes, attach submitted NOI to this report. **If no, contact site operator immediately to determine status of NOI.**	Yes	☐	No	☐

Type of Inspection:			
Regular ☐	Pre-Storm Event ☐	During Storm Event ☐	Post-Storm Event ☐
Describe the weather conditions at time of inspection:			
Describe the current phase of construction:			

Site-Specific BMPs

Customize the following BMPs to be consistent with the SWPPP for the site being inspected.

	BMP Description	Installed and Operating Properly		Corrective Action Needed
1		Yes ☐	No ☐	
2		Yes ☐	No ☐	
3		Yes ☐	No ☐	
4		Yes ☐	No ☐	
5		Yes ☐	No ☐	

	BMP Description	Installed and Operating Properly		Corrective Action Needed
6		Yes ☐	No ☐	
7		Yes ☐	No ☐	
8		Yes ☐	No ☐	
9		Yes ☐	No ☐	
10		Yes ☐	No ☐	

Erosion and Sediment Control (ESC)

Document any of the following issues found on the construction site, and the corrective action required for each.

Issue	Status			Corrective Action Needed
Have all ESC features been constructed before initiating other construction activities?	Yes ☐	No ☐	N/A ☐	
Is the contractor inspecting and maintaining ESC devices regularly?	Yes ☐	No ☐	N/A ☐	
Is existing vegetation maintained on the site as long as possible?	Yes ☐	No ☐	N/A ☐	
Is construction staged so as to minimize exposed soil and disturbed areas?	Yes ☐	No ☐	N/A ☐	
Are disturbed areas restored as soon as possible after work is completed?	Yes ☐	No ☐	N/A ☐	
Is clean water being diverted away from the construction site?	Yes ☐	No ☐	N/A ☐	
Are sediment traps and sediment barriers cleaned regularly?	Yes ☐	No ☐	N/A ☐	
Are vegetated and wooded buffers protected and left undisturbed?	Yes ☐	No ☐	N/A ☐	
Are soils stabilized by mulching and/or seeding when they are exposed for a long time?	Yes ☐	No ☐	N/A ☐	
Has vegetation been allowed to establish itself before flows are introduced to channels?	Yes ☐	No ☐	N/A ☐	
Is regular, light watering used for dust control?	Yes ☐	No ☐	N/A ☐	

Issue	Status			Corrective Action Needed
Is excessive soil compaction with heavy machinery avoided, to the extent possible?	Yes ☐	No ☐	N/A ☐	
Are erosion control blankets used when seeding slopes?	Yes ☐	No ☐	N/A ☐	
Are trees and vegetation that are to be retained during construction adequately protected?	Yes ☐	No ☐	N/A ☐	
Are areas designated as off-limits to construction equipment flagged or easily distinguishable?	Yes ☐	No ☐	N/A ☐	
If excavated topsoil has been salvaged and stockpiled for later use on the project, are stockpiles adequately protected?	Yes ☐	No ☐	N/A ☐	
Are temporary slope drains or chutes used to transport water down steep slopes?	Yes ☐	No ☐	N/A ☐	
Do all entrances to the storm sewer system have adequate protection?	Yes ☐	No ☐	N/A ☐	

Overall Site Conditions

Document any of the following issues found on the construction site, and the corrective action(s) required for each.

Issue	Status			Corrective Action Needed
Are slopes and disturbed areas not being actively worked properly stabilized?	Yes ☐	No ☐	N/A ☐	
Are material stockpiles covered or protected when not in use?	Yes ☐	No ☐	N/A ☐	
Are natural resource areas protected with sediment barriers or other BMPs?	Yes ☐	No ☐	N/A ☐	
Are perimeter controls and sediment barriers installed and maintained?	Yes ☐	No ☐	N/A ☐	
Are discharge points and receiving waters free of sediment deposits and turbidity?	Yes ☐	No ☐	N/A ☐	
Are storm drain inlets properly protected?	Yes ☐	No ☐	N/A ☐	

Issue	Status			Corrective Action Needed
Is there evidence of sediment being tracked into streets?	Yes ☐	No ☐	N/A ☐	
Is trash/litter from the construction site collected and placed in dumpsters?	Yes ☐	No ☐	N/A ☐	
Are vehicles / equipment fueling and maintenance areas free of spills and leaks?	Yes ☐	No ☐	N/A ☐	
Are potential stormwater contaminants protected inside or under cover?	Yes ☐	No ☐	N/A ☐	
Is dewatering from site properly controlled?	Yes ☐	No ☐	N/A ☐	
Are portable restroom facilities properly sited and maintained?	Yes ☐	No ☐	N/A ☐	
Are all hazardous materials and wastes stored in accordance with local regulations?	Yes ☐	No ☐	N/A ☐	

Non-Compliance Actions

The inspector shall provide the site operator with a copy of this report and notice of the corrective action(s) to be taken. The site operator shall have thirty days from the receipt of the notice to commence corrective action of the violations.

Attachment 16

Evaluation Log of New Development and Redevelopment Construction Sites

Evaluation Log of New Development and Redevelopment Construction Sites

Date of Evaluation	Construction Site Meets Requirements of Nueces County Subdivision Regulations and Plating Requirements?

Attachment 17

Log of Maintenance Plans Received for Non-Nueces County Owned and Operated Stormwater Control Measures

Log of Maintenance Plans Received for Non-Nueces County Owned and Operated Stormwater Control Measures

Date Received	Company/Project Location	Maintenance Plan Reviewed?

Attachment 18

Stormwater Structural Control Inspection Procedures

NUECES COUNTY UNINCORPORATED AREA MS4 – STORMWATER STRUCTURAL CONTROL INSPECTION PROCEDURE

NUECES COUNTY PUBLIC WORKS DEPARTMENT

November 2023

Contents

Appendices

1. INTRODUCTION

The Stormwater Management Program (SWMP) for Nueces County Unincorporated Areas requires that Nueces County develop procedures for conducting inspections of stormwater structural controls (SSCs) within the Municipal Separate Storm Sewer System for which Nueces County is the owner and/or operator. The SWMP was prepared in accordance with TPDES Permit Number TXR040000 – General Permit to Discharge Under the TPDES under provisions of 402 of the Clean Water Act and Chapter 26 of the Texas Water Code, for Small Municipal Separate Storm Sewer Systems (MS4), issued on January 24, 2019. Annual SSC inspections have been occurring since 2016. A log of updates to this Procedure is provided in Appendix A.

This SSC Inspection Procedure (Procedure) is intended to be used as a resource during annual inspections and includes measures for evaluating the condition of SSCs within the MS4. The Procedure addresses the following:

- Employee Training
- SSC Locations
- SSC Descriptions
- SSC Inspections
- Inspection Findings and Recommendations

2. EMPLOYEE TRAINING

Nueces County employees or consultants who may conduct SSC inspections will review this Procedure. A training log of individuals who have completed review of this Procedure is included as Appendix B.

3. SSC LOCATIONS

Nueces County owned SSCs have been identified in the SSC Inventory in the SWMP. The inventory and a map showing the location of SSCs in each MS4 Area (1-8) have been included as Appendix C of this Procedure.

4. SSC DESCRIPTIONS

SSCs within the eight MS4 Areas include culverts, concrete-lined ditches, and grated stormwater inlets. The majority of the SSCs are culverts; detailed descriptions of each SSC are provided in the inventory in Appendix C.

5. SSC INSPECTIONS

Inspections are conducted annually and consist of visual observation and photographing of each SSC on the inventory. Prior to conducting SSC inspections, the previous year's findings are reviewed. A form used for conducting SSC inspections has been developed and is included in Appendix D. The SSC Inspection Form covers the following areas:

- Rainfall observations
- SSC flow path
- Condition of SSC:
  - Submerged
  - Crushed
  - Cracked
  - Clogged
  - Water flow
  - Presence of petroleum products
  - Sediment accumulation
  - Debris accumulation, erosion, overgrown vegetation, evidence of previous illicit discharge

6. INSPECTION FINDINGS AND RECOMMENDATIONS

Inspection findings and recommendations are summarized in a letter report prepared after all inspections for the year have been conducted. In the event that SSCs are crushed, cracked, clogged, contain petroleum products, or are over 50% filled with sediment or debris, repairs or maintenance are recommended to ensure the proper flow of stormwater through the SSCs.

Repairs and maintenance recommendations are routed to the Nueces County Department of Public Works Road and Bridge personnel. Repair and maintenance records are stored by Nueces County Department of Public Works.

Appendix A – Procedure Update Log

Log of SSC Inspection Procedure Updates

Date of Update	Revision No.	Description of Update
September 2020	R0	Initial plan prepared.
November 2023	R1	Plan updated with TCEQ technical review of SWMP.

Appendix B – Training Log

Stormwater Structural Control Inspection Procedure Training Log

Date: _____

Employee Name	Employee Signature

Appendix C – SSC Inventory and Map

Structural Controls in Nueces County Unincorporated Area MS4

MS4 Area	Number	Type	Description	Latitude/Longitude
1	1	Drive over culvert	Box culvert with two openings under CR 56	27.880156°, -97.691848°
1	2	Concrete swale	Concrete swale paralleling west side of CR 75	27.879081°, -97.692046°
1	3	Drive over culvert	Two concrete pipes under Wade St.	27.875853°, -97.692490°
1	4	Drive over culvert	Slanted concrete culvert with two openings under River Ranch Circle	27.870484°, -97.693675°
1	4A	Drive over culvert	Slanted concrete culvert with two openings under CR 75	27.867509°, -97.694199°
1	5	Drive over culvert	Grate on east end, slanted concrete culvert with two openings on west end under CR 73A	27.865354°, -97.689485°
~~1~~	~~6~~ (not County)	~~Drive over culvert~~	N/A	~~27.864702°, -97.688508°~~
~~1~~	~~6A~~ (not County)	~~Stormwater Inlet~~	N/A	~~27.864984°, -97.688711°~~
1	7	Drive over culvert	Single concrete pipe under Lone Oak Dr.	27.867579°, -97.689076°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	8	Drive over culvert	Single concrete pipe on east end, two concrete pipes on west end under CR 73A	27.867415°, -97.687937°
1	8A	Drive over culvert	Single concrete pipe under Lone Oak Dr.	27.867409°, -97.687962°
1	8B	Drive over culvert	Single concrete pipe under Lone Oak Dr.	27.868022°, -97.686284°
1	9	Drive over culvert	Two concrete pipes under Lone Oak Dr.	27.867889°, -97.685288°
1	9A	Drive over culvert	Two concrete pipes under Prairie Ridge Dr.	27.867991°, -97.685204°
1	10	Drive over culvert	Single concrete pipe under Prairie Ridge Dr.	27.869976°, -97.685157°
1	11	Drive over culvert	Single concrete pipe under Colony Dr.	27.870018°, -97.685365°
1	12	Drive over culvert	Single concrete pipe under Colony Dr.	27.869855°, -97.686091°
1	13	Drive over culvert	Single concrete pipe under Colony Dr.	27.869600°, -97.687139°
1	14	Drive over culvert	Two concrete pipes under Colony Dr.	27.869478°, -97.688811°
1	15	Drive over culvert	Single concrete pipe under CR 73A	27.870826°, -97.688693°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	16	Drive over culvert	Single concrete pipe under CR 73A	27.872058°, -97.688559°
1	16A	Drive over culvert	Single concrete pipe under CR 73A	27.873894°, -97.688295°
1	16B	Drive over culvert	Single concrete pipe under CR 73A	27.874990°, -97.688142°
1	17	Drive over culvert	Two concrete pipes under Stone Ridge Dr.	27.872229°, -97.685880°
1	18	Drive over culvert	Two concrete pipes under Stone Ridge Dr.	27.872593°, -97.685821°
1	19	Drive over culvert	Single concrete pipe under Stone Ridge Dr.	27.872663°, -97.684832°
1	19A	Concrete pad and grassy swale	Concrete pad and grassy swale to north of Stone Ridge Dr.	27.872612°, -97.684568°
1	20	Drive over culvert	Two concrete pipes under Wade St.	27.875322°, -97.689443°
1	21	Drive over culvert	Single concrete pipe under Wade St. with a section of pipe appx. 10 feet north of north end of pipe	27.875403°, -97.689917°
1	22	Drive over culvert	Two concrete pipes under Wade St.	27.875621°, -97.690864°
1	23	Drive over culvert	Three concrete pipes under March St.	27.876617°, -97.689769°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	23A	Drive over culvert	Single concrete pipe under March St.	27.878543°, -97.689422°
1	24	Drive over culvert	Single concrete pipe under March St.	27.879648°, -97.689192°
1	25	Drive over culvert	Two concrete pipes under March St.	27.879837°, -97.689330°
1	26	Drive over culvert	Two concrete pipes under Emil St. (one with concrete wall)	27.875879°, -97.682482°
1	26A	Drive over culvert	Single concrete pipe with wall under Wade St.	27.875195°, -97.686877°
1	27	Drive over culvert	Single concrete pipe with wall under Emil St.	27.876315°, -97.680965°
1	28	Drive over culvert	Slanted concrete culvert with five pipes under Emil St.	27.877505°, -97.678761°
1	28A	Drive over culvert	Two concrete pipes with wall under Emil St.	27.876988°, -97.675126°
1	28B	Drive over culvert	Single concrete pipe with wall under Bobwhite Rd.	27.872555°, -97.675090°
1	29	Drive over culvert	Single concrete pipe with wall under Bobwhite Rd.	27.873361°, -97.677982°
1	29A	Drive over culvert	Four concrete pipes with wall under Bobwhite Rd.	27.872519°, -97.680024°
1	29B	Drive over culvert	Single pipe under Bobwhite Rd. with grate at west end	27.871528°, -97.682161°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	30	Drive over culvert	Four concrete pipes under Bobwhite Rd.	27.868729°, -97.682429°
1	31	Drive over culvert	Two concrete pipes under Bobwhite Rd.	27.868615°, -97.682445°
1	32	Drive over culvert	Two concrete pipes under Bobwhite Rd.	27.868312°, -97.681883°
1	33	Drive over culvert	Two concrete pipes under Bobwhite Rd. (one with concrete wall)	27.868168°, -97.680664°
1	33A	Drive over culvert	Single concrete pipe with wall under Partridge Rd.	27.867873°, -97.678450°
1	34	Drive over culvert	Single concrete pipe with wall under Bobwhite Rd.	27.867390°, -97.674926°
1	35	Drive over culvert/bridge	Three concrete pipes with wall under CR 73	27.865600°, -97.674797°
1	36	Drive over culvert	Manhole and grate inlet on east/north end, single concrete pipe under Wagon Trail on west end	27.864969°, -97.675791°
1	36A	Drive over culvert	Grate inlet on east end, single concrete pipe on west end	27.862467°, -97.676246°
1	36B	Drive over culvert	Single concrete pipe under Ridge Trail	27.862522°, -97.676311°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	36C	Drive over culvert	Single concrete pipe under Saddle Trail	27.863781°, -97.676109°
1	36D	Underground culvert	Single concrete pipe from SSC #36 to ditch along CR 73	27.864951°, -97.674953°
1	36E	Drive over culvert	Single concrete pipe under driveway along CR 73	27.865067°, -97.674933°
1	36F	Drive over culvert	Single concrete pipe under Isbell Circle	27.861421°, -97.676517°
1	37	Drive over culvert	Slanted concrete culvert with two openings under Lariat Trail	27.862101°, -97.682635°
1	37A	Drive over culvert	Two concrete pipes under Lariat Trail	27.865722°, -97.680930°
1	37B	Drive over culvert	One concrete pipe under Saddle Trail	27.864575°, -97.681484°
~~1~~	~~38~~ (not County)	~~Drive over culvert~~	N/A	~~27.859364°, -97.671630°~~
1	39	Drive over culvert/bridge	Box culvert with six openings under River Trail Dr.	27.871049°, -97.668011°
1	39A	Drive over culvert	Slanted concrete culvert with one opening and a grated inlet on north end, slanted concrete culvert with one opening on south end under River Trail Dr. (dead end portion to west)	27.871567°, -97.668470°

MS4 Area	Number	Type	Description	Latitude/Longitude
1	40	Drive over culvert	Single concrete pipe under CR 73	27.875130°, -97.675076°
1	41	Drive over culvert	Single concrete pipe with wall under River Trail Dr.	27.873571°, -97.668521°
1	42	Drive over culvert	Box culvert with two openings under River Trail Dr.	27.862938°, -97.668935°
1	43	Drive over culvert	Single concrete pipe with wall under Aikens Way	27.868560°, -97.668873°
1	44	Drive over culvert	Single concrete pipe with wall under River Trail Dr.	27.869269°, -97.668112°
1	45	Drive over culvert	Single concrete pipe with wall under River Trail Dr. on east end, concrete swale to single concrete pipe with wall on west end	27.877276°, -97.669636°
1	46	Drive over culvert	Single concrete pipe with wall under River Trail Dr. on east end, concrete swale to single concrete pipe with wall on west end	27.877509°, -97.669911°
1	47	Drive over culvert	Three concrete pipes under Kern Dr.	27.863583°, -97.668821°

MS4 Area	Number	Type	Description	Latitude/Longitude
~~2~~	~~1~~	~~Water canal~~	Canal goes to Robstown – Drainage District owned, not Nueces County owned	~~27.860526°, -97.643179°~~
2	2	Drive over culvert	Single concrete pipe with wall under park road	27.864019°, -97.642154°
2	3	Drive over culvert	Two single concrete pipes going under adjacent park roads	27.866787°, -97.639695°
3	1	Drive over culvert	Two single concrete pipes going under River Rd.	27.886501°, -97.610898°
4	N/A	N/A	N/A	N/A – No structural controls found
5	1	Drive over culvert	Slanted concrete culvert with three openings under FM 24	27.818921°, -97.601408°
5	2	Drive over culvert	Slanted concrete culvert with three openings under FM 24	27.818413°, -97.601501°
6	1	Drive over culvert	Slanted concrete culvert with metal pipe on north end, grate inlet on south end, crosses under Up River Rd	27.828408°, -97.529594°
6	2	Drive over culvert	Slanted concrete culvert with one opening under Tuloso Rd.	27.826238°, -97.523933°
~~7~~	~~1~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.822342°, -97.513633°~~

MS4 Area	Number	Type	Description	Latitude/Longitude
~~7~~	~~2~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.821404°, -97.511311°~~
~~7~~	~~3~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.820331°, -97.508628°~~
~~7~~	~~4~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.819454°, -97.506091°~~
~~7~~	~~5~~	~~Concrete outfall~~	N/A-Not County Owned	~~27.818684°, -97.502626°~~
~~7~~	~~6~~	~~Concrete swale/flow reducer~~	N/A-Not County Owned	~~27.818097°, -97.502120°~~
~~7~~	~~7~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.815116°, -97.488309°~~
~~7~~	~~8~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.811794°, -97.453160°~~
~~7~~	~~9~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.813390°, -97.442944°~~
~~8~~	~~1~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.817839°, -97.414740°~~
~~8~~	~~2~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.819048°, -97.404862°~~
~~8~~	~~3~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.819112°, -97.400296°~~
~~8~~	~~4~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.819198°, -97.396978°~~

MS4 Area	Number	Type	Description	Latitude/Longitude
~~8~~	~~5~~	~~Drive over culvert/bridge~~	N/A-Not County Owned	~~27.818813°, -97.396215°~~

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

Drawn By:	TLD	Scale:	As Shown	Sheet Number:
Project Number:	160442E	Date:	1-17-2021	1 of 1

Detail Map of MS4 Area 1

Area 1 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

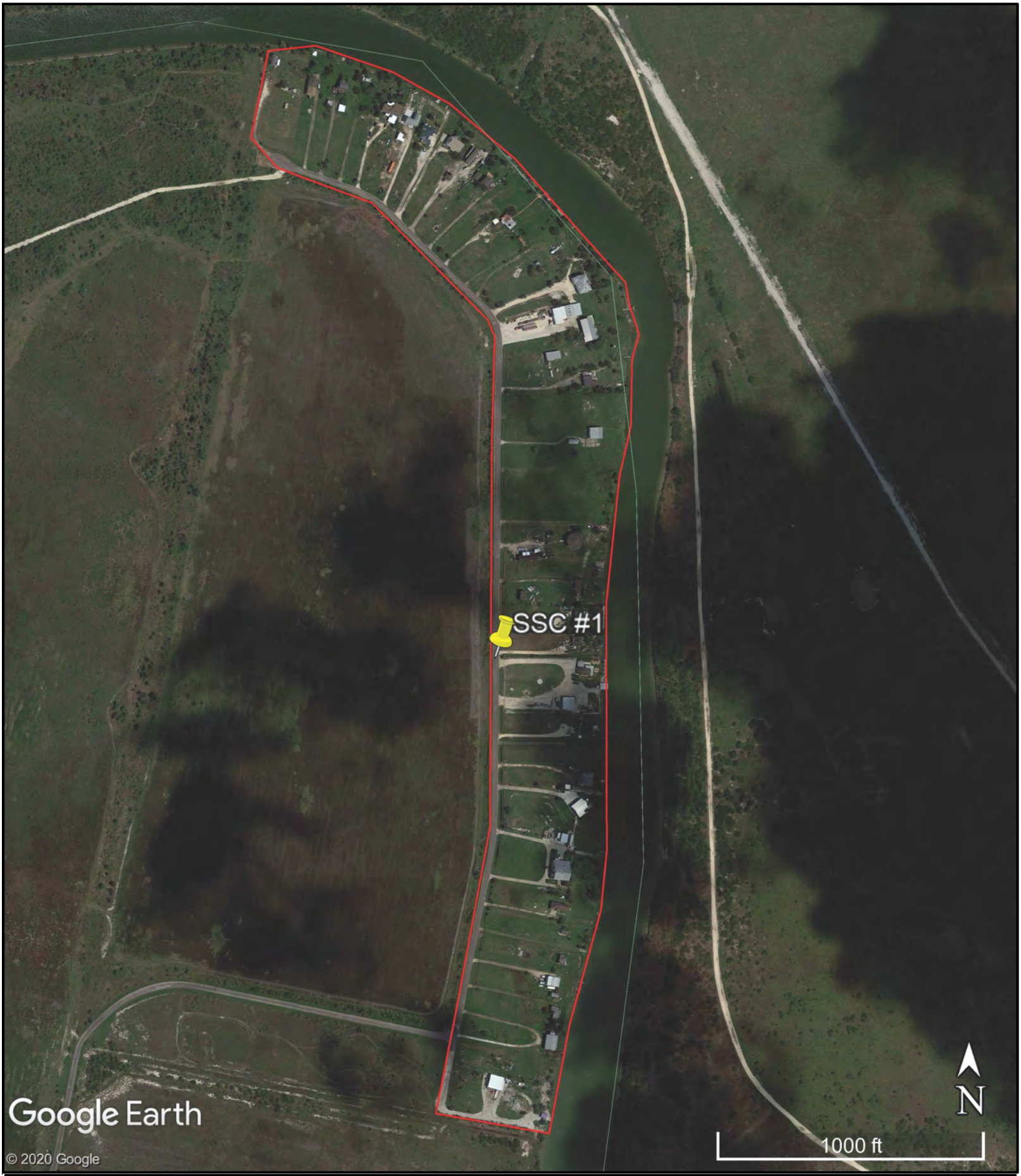
Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 2

Area 2 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control

HANSON

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Checked By:	TLD	Project Number:	16L0442C	Date:	03-26-20	1 of 1

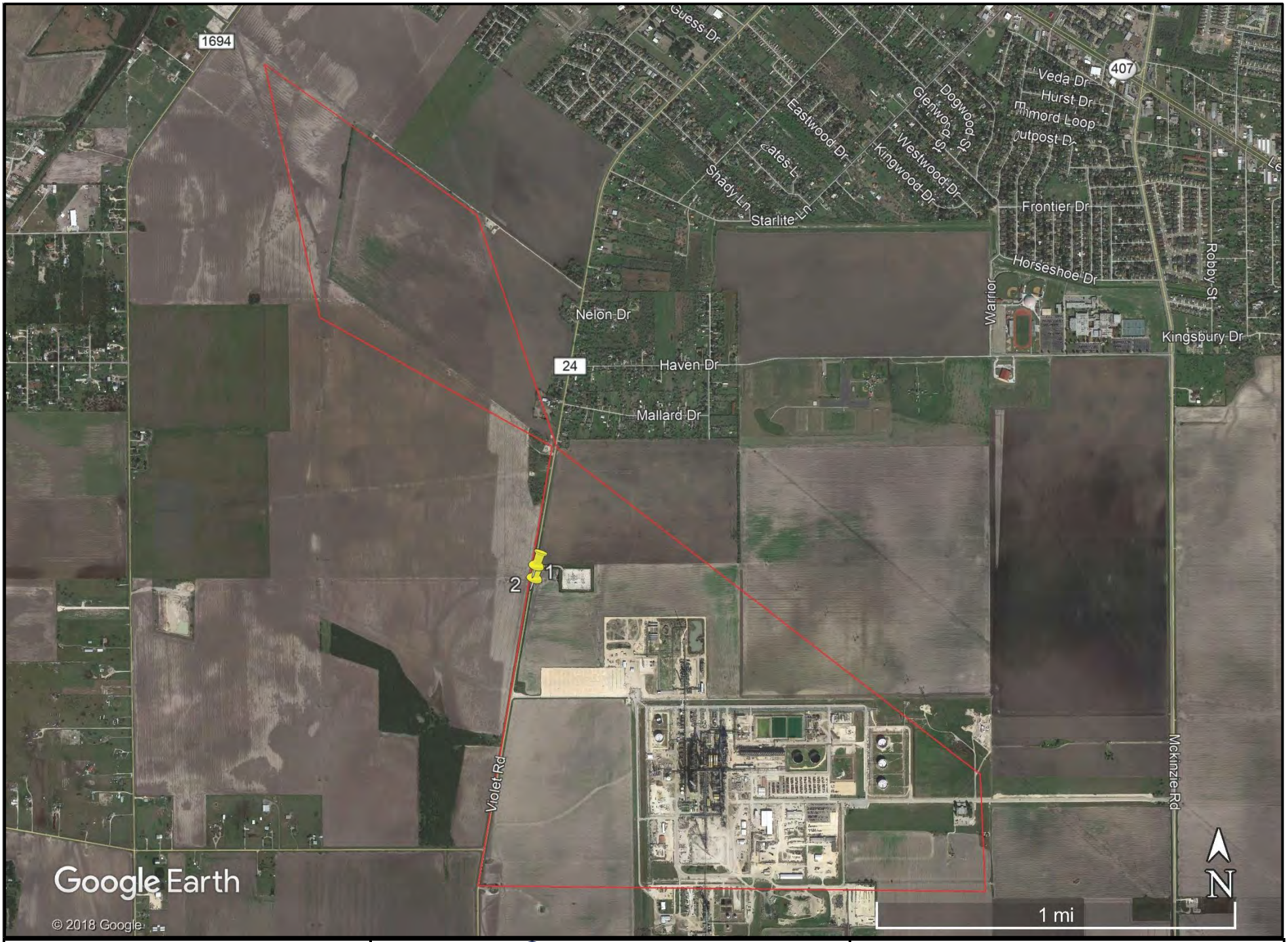
Detail Map of MS4 Area 3
Area 3 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 4
Area 4 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

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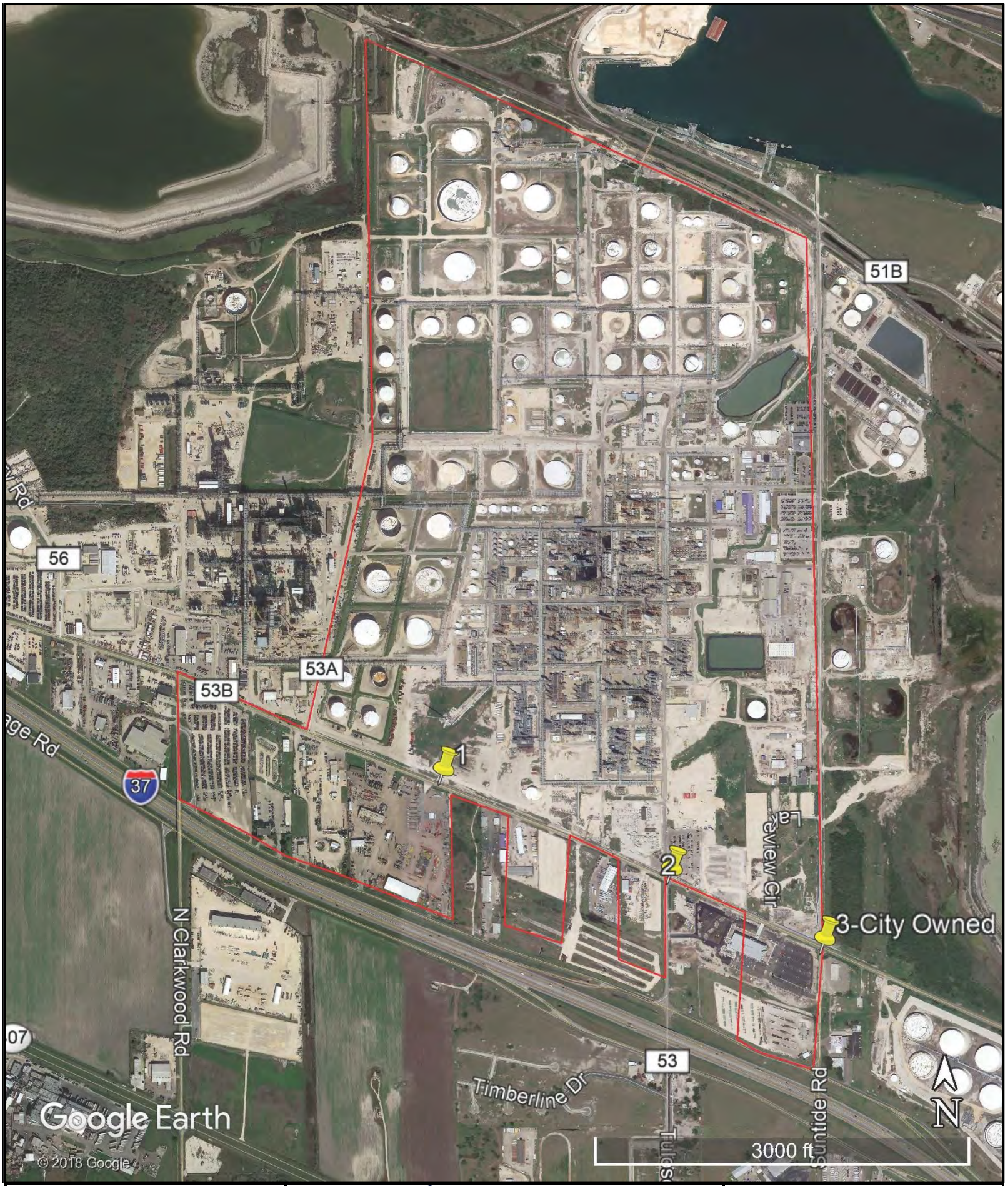
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 5

Area 5 – Nueces County Unincorporated Area MS4
Nueces County, Texas

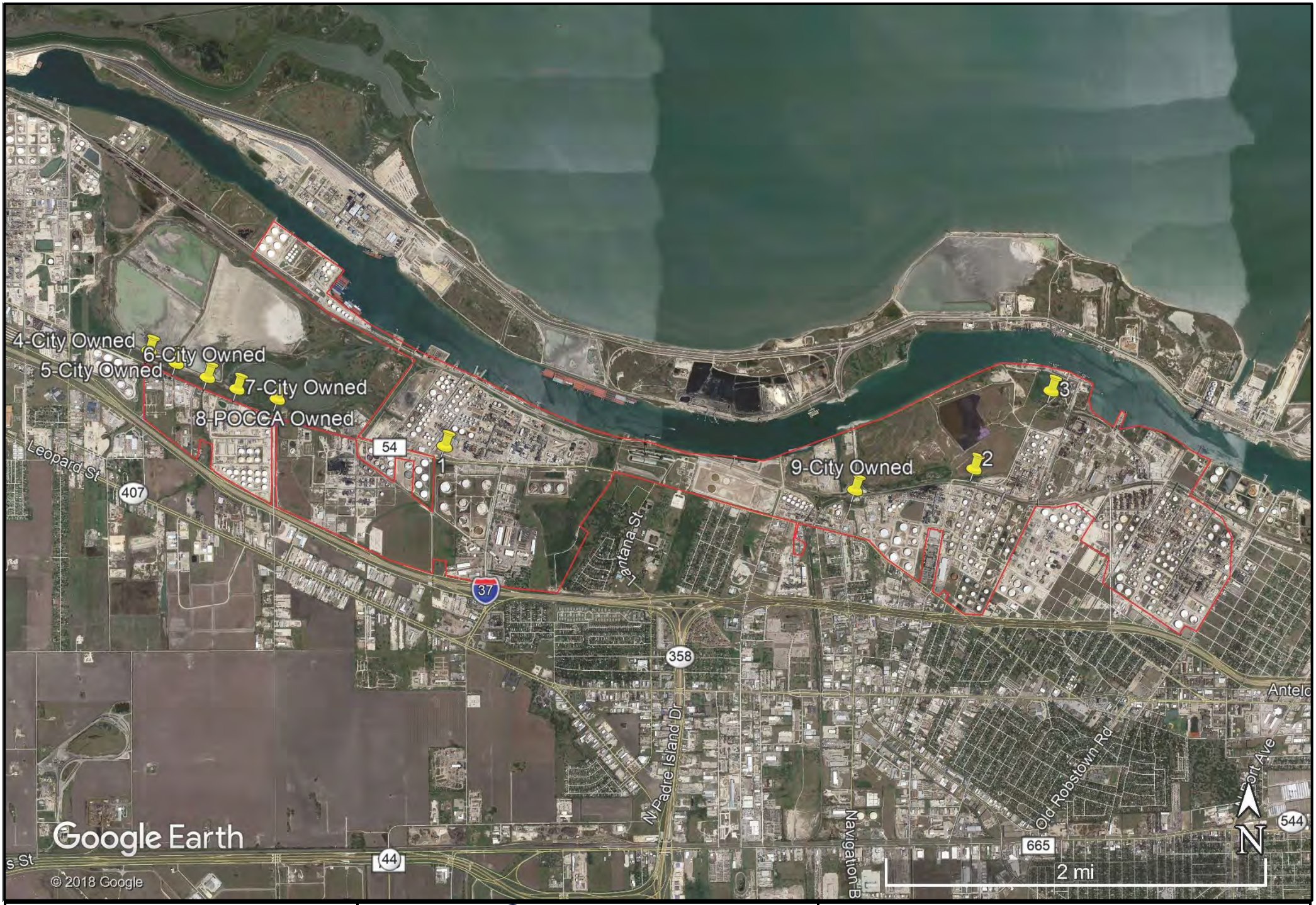


Note: Property Boundaries Shown are Approximate.

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 6
Area 6 – Nueces County Unincorporated Area MS4
Nueces County, Texas



Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

Drawn By:	TLD	Appr. By:	TLD	Scale:	As Shown	Sheet Number:
Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 7

Area 7 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Note: Property Boundaries Shown are Approximate.

Legend: - Structural Control
- Significant Drainage Feature

HANSON

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Checked By:	TLD	Project Number:	16L0442A	Date:	05-09-18	1 of 1

Detail Map of MS4 Area 8

Area 8 – Nueces County Unincorporated Area MS4
Nueces County, Texas

Appendix D – SSC Inspection Form

STORMWATER STRUCTURAL CONTROL (SSC) INSPECTION FORM

PART 1 GENERAL INFORMATION

MS4 AREA: _____ STRUCTURAL CONTROL NUMBER: _____

DATE: _____ TIME: _____ OBSERVER: _____

HOW LONG SINCE LAST RAINFALL? ☐ RAINING NOW ☐ 0-2 DAYS ☐ 3 OR MORE DAYS ☐ UNKNOWN

PART 2 STRUCTURAL CONTROL INFORMATION & VISUAL OBSERVATIONS

Structural Control Flows Into:	☐ Ditch	☐ Pond	☐ Other:		
Structural Control Submerged?	☐ No	☐ Yes	Comments:		
If yes, how much?	☐ N/A	☐ 25% or less	☐ about 50%	☐ more than 50%	
Structural Control Crushed?	☐ No	☐ Yes	Comments:		
If yes, how much?	☐ N/A	☐ 25% or less	☐ about 50%	☐ more than 50%	
Structural Control Cracked or Broken?	☐ No	☐ Yes	Comments:		
Grate Present?	☐ No	☐ Yes	Comments:		
If yes, is grate clogged?	☐ N/A	☐ 25% or less	☐ about 50%	☐ more than 50%	
Water Flowing in Structural Control?	☐ No	☐ Yes	Comments:		
If yes, what does water look like?	☐ N/A	☐ Clear	☐ Colored	☐ Muddy	☐ Other
If yes, petroleum products present?	☐ N/A	☐ No	☐ Yes	☐ Floating globs	☐ Sheen
Sediment Accumulation in Pipe?	☐ No	☐ Yes	Comments:		
If yes, how much?	☐ N/A	☐ slight amount	☐ 25% or less filled in	☐ about 50% filled in	☐ more than 50% filled in
Debris Accumulation in Pipe?	☐ No	☐ Yes	Comments:		

If yes, how much?	☐ N/A	☐ 25% or less filled in	☐ about 50% filled in	☐ more than 50% filled in
Is Erosion Occurring at the Structural Control?	☐ No	☐ Yes	Comments:	
Is Vegetation Overgrown at the Structural Control?	☐ No	☐ Yes	Comments:	
Evidence of previous illicit discharge(s)?	☐ No	☐ Yes	Comments:	
Additional Observations:				

PART 3 ADDITIONAL INFORMATION IF OBSERVING ACTIVE IDDE INCIDENT

DISCHARGER/UNUATHORIZED DUMPER NAME/ADDRESS: _____

DISCHARGER/UNAUTHORIZED DUMPER LICENSE PLATE: _____

DISCHARGER/UNAUTHORIZED DUMPER VEHICLE: _____

COMMENTS: _____

Attachment 19

Contractor Oversight Procedures and Log of Updates

Contractor Oversight Procedures for Maintenance Activities in Nueces County Unincorporated Areas MS4 – Revision 0

The Stormwater Management Program for Nueces County Unincorporated Areas requires contractor oversight procedures to be developed to ensure contractors performing maintenance activities within the Municipal Separate Storm Sewer System (MS4) are using appropriate control measures and standard operating procedures.

Nueces County includes contract language in all agreements with contractors that states that the contractor shall comply with all applicable Federal, State, and local laws, statutes, codes, ordinances, rules, and regulations, and the orders and decrees of any court, or administrative bodies or tribunals, in any manner affecting the performance of the contract, including, without limitation, worker's compensation laws, minimum salary and wage statutes and regulations, and licensing laws and regulations. When required, the contractor will furnish Nueces County with satisfactory proof of its compliance.

In addition to the requirement for contractors to comply with applicable laws, Nueces County staff advise contractors on the requirements of the Nueces County Stormwater Management Program for Nueces County Unincorporated Areas, as well as compliance with Environmental Protection Agency and Texas Commission on Environmental Quality rules.

Contractor Oversight Procedures Update Log

Date of Update	Revision Number	Description of Update
October 2017	R0	Prepared initial procedures.

Attachment 20

Operation and Maintenance Activity Evaluation and Log of Updates

Contractor Operation and Maintenance Activities Evaluation for Nueces County Unincorporated Areas MS4

The Stormwater Management Program for Nueces County Unincorporated Areas requires operation and maintenance activities performed by contractors within the Municipal Separate Storm Sewer System (MS4) to be evaluated for the potential to discharge pollutants in stormwater runoff. The table below lists common activities that contractors may perform for Nueces County within the MS4 and recommendations to avoid discharging pollutants.

Activity	Potential to Discharge	Recommendations
Clean out, unclog, repair, replace, culverts/pipes	Debris, accumulated oil and grease	Remove and dispose of debris properly, perform activity when precipitation not occurring
Clean out ditches	Debris	Remove and dispose of debris properly, perform activity when precipitation not occurring
Street sweeping	Debris, solids	Dispose of debris properly, use appropriate equipment in recommended manner
Guardrail inspections/repair/ replacement	Debris, paint	Remove and dispose of debris properly, use environmentally friendly products and use paint in recommended manner
Bridge inspections/ cleaning/repair	Debris, paint	Remove and dispose of debris properly, use environmentally friendly products and use paint in recommended manner
Road sealing/resurfacing	Petroleum	Seal and surface in recommended manner, perform activity when precipitation not occurring
Pot hole patching	Petroleum	Patch in recommended manner
Sign maintenance	Debris	Remove and dispose of debris properly
Roadway/shoulder grading	Debris, solids	Dispose of debris properly, use BMPs as necessary
Roadway striping	Paint	Use environmentally friendly products and use paint and equipment in recommended manner
Litter removal from ROW	Debris	Remove and dispose of debris properly
Mowing	Debris	Remove and dispose of debris properly
Brush cutting	Debris	Remove and dispose of debris properly
Roadside vegetation management - herbicide application to ROW	Herbicide	Ensure personnel applying products are properly licensed
Vector control – pesticide/larvicide/ insecticide application	Pesticide/larvicide/ insecticide	Ensure personnel applying products are properly licensed

Activity	Potential to Discharge	Recommendations
Surveying	Debris, paint	Use environmentally friendly products and use paint in recommended manner, dispose of debris properly
Graffiti removal	Solvents, paints	Use environmentally friendly products and use paint in recommended manner
Driveway permits	Petroleum, debris	Pave driveway in recommended manner, dispose of debris properly

Log of Operation and Maintenance Evaluation Updates

Date of Update	Revision Number	Description of Update
February 2018	R0	Initial evaluation prepared.

Attachment 21

Waterbody Impairment and TMDL Status Information

Water Quality Impairment Information for Nueces County Unincorporated Areas MS4

Area	Approximate Central Coordinates of MS4 Area	Waterbody Receiving Stormwater Discharges	Classified Segment Eventually Reached	MS4 Discharge to Classified Segment Direct or Indirect?	Waterbody Impaired? (Based on 2022 Texas Integrated Report of Surface Water Quality)	Pollutants of Concern?	TMDL Status	Discharge to another MS4?
1	27.870232°, -97.679933°	Constructed drainage features and wetlands	Nueces River Below Lake Corpus Christi – Segment 2102	Indirect	No	N/A	No TMDL	No
2	27.866299°, -97.643058°	Nueces River Below Lake Corpus Christi	Nueces River Below Lake Corpus Christi – Segment 2102	Direct	No	N/A	No TMDL	No
3	27.887581°, -97.610171°	Nueces River Tidal	Nueces River Tidal – Segment 2101	Direct	No	N/A	No TMDL	No
4	27.873094°, -97.610525°	Nueces River Tidal	Nueces River Tidal – Segment 2101	Direct	No	N/A	No TMDL	No
5	27.821860°, -97.599261°	Unnamed drainage ditch	Oso Creek – Segment 2485A	Indirect	Yes	Bacteria in water (recreation use)	Adopted by TCEQ on July 31, 2019, approved by EPA on October 25, 2019 – no specific requirements listed for MS4	No

Area	Approximate Central Coordinates of MS4 Area	Waterbody Receiving Stormwater Discharges	Classified Segment Eventually Reached	MS4 Discharge to Classified Segment Direct or Indirect?	Waterbody Impaired? (Based on 2022 Texas Integrated Report of Surface Water Quality)	Pollutants of Concern?	TMDL Status	Discharge to another MS4?
6	27.833655°, -97.526188°	Unnamed drainage ditch	Corpus Christi Inner Harbor – Segment 2484	Indirect	Yes	Copper in water	No TMDL in development	Yes – City of Corpus Christi
7	27.813835°, -97.465653°	Unnamed drainage ditch	Corpus Christi Inner Harbor – Segment 2484	Indirect	Yes	Copper in water	No TMDL in development	Yes – City of Corpus Christi
8	27.817318°, -97.405768°	Unnamed drainage ditch	West portion flows to Corpus Christi Inner Harbor – Segment 2484	Indirect	Yes	Copper in water	No TMDL in development	Yes – City of Corpus Christi
			West portion eventually flows to Corpus Christi Bay – Segment 2481	Indirect	No	N/A	N/A	
			East portion flows to Nueces Bay/Nueces Bay (Oyster Waters) – Segment 2482	Indirect	Nueces Bay: Yes	Copper in water	No TMDL in development	Yes – City of Corpus Christi
					Nueces Bay (Oyster Waters): Yes	Zinc in tissue	Approved by TCEQ on November 1, 2006 – no additional requirements for MS4 (historical contamination – no reduction in total load of zinc required)	