



FERN BLUFF

Municipal Utility District

5 Year Plan 2025

MS4

Municipal Separate Storm Sewer System

Storm Water Management Plan
Permit # TXRo40625

WWW.FERNBLUFFMUD.ORG ONE NUMBER HOTLINE (512)238-0606

7320 WYOMING SPRINGS DRIVE ROUND ROCK TX 78681

Fern Bluff MUD, Level 2b, Regulated Small MS4, Non-Traditional, Municipal

Part II Section E(4) Discharges to the Edwards Aquifer Recharge Zone

The district has reviewed all WPAP's that have been submitted in search for permanent stormwater structures. The requirements found for Fern Bluff Community Center and Fern Bluff Park are in the stormwater structures list in Part IV Section D (6) Pollution Prevention and Good Housekeeping for Municipal Operations.

The Approximate Center of Fern Bluff MUD MS4 is
7421 West Magic Mountain Ln
Round Rock Texas 78681
3.051586, -97.73204

Located in Both Travis County and Williamson County. Fern Bluff discharges into both the Edwards Aquifer Recharge Zone and the Edwards Aquifer Contributing Zone. Segment 1244-04 of Brushy Creek.

Part III Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements

The permittee shall check annually, in conjunction with preparation of the annual report, whether an impaired water body within its permitted area has been added to the latest EPA approved CWA § 303(d) List or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d) which lists the category 4 and 5 water bodies. Within two years following the approval date of the new list(s) of impaired waters, the permittee shall comply with the requirements of Part III.B (with the exception of 1.(c), and shall identify any newly listed waters in the annual report (consistent with Part V.B.2.f) and SWMP (consistent with Part IV.C.2.f).

Part IV Section C(3)b(1) Content of the SWMP, Legal Authority

Non-traditional small MS4s, such as counties, drainage districts, transportation entities, municipal utility districts, military bases, prisons, and universities:

Where the permittee lacks the authority to develop ordinances or to implement enforcement actions, the permittee shall exert enforcement authority as required by this general permit for its facilities, employees, contractors, and any other entity over which it has operational control within the portion of the urban area with a population of at least 50,000 people under the jurisdiction of the permittee. For discharges from third party actions, the permittee shall perform inspections and exert enforcement authority to the MEP.

Activity/BMP	Measurable Goals
Part IV Section C. Legal Authority	Update if necessary legal authority to ensure we can enforce all necessary requirements of the 2025 stormwater permit. This will be completed by the end of year 2 and evaluated annually to strengthen documents as situations demand.

Part IV Section C(5) Effluent Limitations

The controls and activities/BMPs included in the SWMP constitute effluent limitations for the purposes of compliance with state rules. This includes the requirements of 30 TAC Chapter 319, Subchapter B (Hazardous Metals), which lists the maximum allowable concentrations of hazardous metals for discharge to water in the state.

We have no commercial customers that would have any potential to discharge the chemicals listed below. We will have no reason or method to do the testing of these metals.

Metal	Average	Daily Composite	Grab Sample
Arsenic	0.1	0.2	0.3
Barium	1.0	2.0	4.0
Cadmium	0.05	0.1	0.2
Chromium	0.5	1.0	5.0
Copper	0.5	1.0	2.0
Lead	0.5	1.0	1.5
Manganese	1.0	2.0	3.0
Mercury	0.005	0.005	0.01
Nickel	1.0	2.0	3.0
Selenium	0.05	0.1	0.2
Silver	0.05	0.1	0.2
Zinc	1.0	2.0	6.0

Part IV Section C(7)a General Requirements

List of all small MS4 operators contributing to the development and implementation of the SWMP, including a clear description of the role and responsibilities of each small MS4 operator.

1. Hector Alanis-Operations Manager who oversees the SWMP.
2. Jeremiah Alcantar-Assistant Operations Manager is the lead stormwater operator, whose role is to draft the SWMP/Annual Reports and orchestrates the activities required by the SWMP.
3. Ismael Pompa-Field Operator responsible for cleanup and inspection of inlets, outfalls, and drainage areas.
4. Richard Shalifoe- Field Operator responsible for cleanup and inspection of inlets, outfalls, and drainage areas.

All operators are responsible for monitoring the MS4 for illicit discharges or potential illicit discharges throughout the district and making proper notification if something is detected and tracing discharges to their sources.

Part IV Section D Minimum Control Measures (MCMs)

1 Public Education And Outreach

Below Is Fern Bluff Municipal Utility Districts list of all activities/BMPs and measurable goals for each of the MCMs;

A schedule for the implementation of all SWMP requirements, including, as appropriate, the months and years in which the permittee will undertake required actions, interim milestones, and the frequency of the action throughout the permit term;

A description of how each measurable goal will be evaluated, and a rationale statement that addresses the overall program, including an overall statement describing how the activities/BMPs and measurable goals were selected.

Activity/BMP	Measurable Goals
Information on the MS4 operator's website	Maintain a webpage with current and accurate information and working links. All links will be checked, and the page shall be updated as necessary at a minimum of once annually Site will be maintained for the full year, each year.
Maintain or mark storm drains and inlets with, "No Dumping – Drains to Creek" or a similar message	Placard, 10% of all known stormwater inlets in the district that are not already marked as identified by the small MS4 operator each year. Where all known stormwater inlets have been marked, inspect, and maintain the markers for a minimum of 15% of all known stormwater inlets identified by the small MS4 operator within the MS4 area each year.
Publish articles in local newspaper or newsletter, may be electronic	Develop article topics that are group specific and address activities or pollutants of concern at a seasonally appropriate time. A minimum of two articles will be published and emailed to our residents as newsletter. Annually. It will include info on how to participate in our Hazardous Household Waste voucher program, Information about upcoming storm water events (watershed cleanup and National night) or other stormwater information.
Permanent stormwater related signage.	Survey parks/trails for the opportunity to hang signage/replace signage to pick up poop or no pet waste. Survey one park a year and add/replace at least one sign a year.

Activity/BMP	Measurable Goals
Targeted education campaign via mail, email, or in person	We will notify 100% of our residents via bill message to not sweep or blow grass clippings or leaf litter into storm drains twice annually. Once in March and once in October.
Targeted education campaign via mail, email, or in person	We will notify 100% of our residents via bill message to properly apply pesticides and fertilizers to their house and lawn to prevent pollutants from entering the storm conveyance system. We will send this out annually in April and June.
Targeted education campaign via mail, email, or in person	Provide training on improper use of fertilizers and pesticides, informing residents not to sweep or blowing grass clippings and leaf litter into storm drains. This training will be covered annually for staff members. This will be completed by the end of each permit year.
Targeted education campaign via mail, email, or in person	Provide training packets to Landscape contractors on proper use of fertilizers and pesticides and hauling of excess grass clippings and leaf litter. This training will be sent annually with requirements to provide confirmation of training. This will be completed by the end of each permit year.

2. Public Involvement/Participation

Activity/BMP	Measurable Goals
Stream/lake or watershed clean-up events; litter/trash clean-up events.	Host a watershed cleanup event at one of our parks and trails annually. We have five large parks and trails we will rotate between. We will document how many people attend annually. <ol style="list-style-type: none">1. Olson Meadows, 32.72. Brightwater, 11.66 acres3. Fern Bluff, 3 acres4. Cheatham, 7.97 acres5. Friendly Oaks, 2.5 acres
MS4 area-wide stormwater survey for input on program implementation	Conduct one public survey annually on a site such as survey monkey for input on the program implementation. We will poll at least 75% of the residents. We will track the number of responses we get from the residents for representation of percent participation.
Educational display/booth at a school, public event, or similar event to provide information or displays that work to improve public understanding of issues related to water quality.	We will staff a booth annually at National Night out and provide information on how to prevent stormwater pollution annually. Staff will keep count on how much material was disseminated.

3. Illicit Discharge Detection and Elimination

Activity/BMP	Measurable Goals
Maintain a current and accurate MS4 map as described in Part IV.D.3.(c)(1).	Review and update, as necessary, at least one time annually to include features which have been added, removed, or changed.
<p>Conduct training for all the permittee's field staff as described in Part IV.D.3.(c)(2).</p> <p>Training may be conducted in person or using self- paced training materials such as videos or reading materials.</p>	Conduct a minimum of one training annually for 100% of MS4 field staff that may come into contact with or otherwise observe an illicit discharge, illegal dumping, or illicit connection to the small MS4 as part of their normal job responsibilities.
Maintain and publicize a public reporting method for the public to report illicit discharges, illegal dumping, or water quality impacts associated with discharges into or from the small MS4 such as a reporting hotline, online form, or other similar mechanism as described in Part IV.D.3.(c)(3).	<p>Maintain a minimum of one public reporting mechanism 100% of the time during the permit term.</p> <p>Twice a year in May and in September we will send out a bill message to Publicize the public reporting hotline phone number and email to all our residents.</p> <p>We will have the hotline and email up on our stormwater page for the entire permit term.</p> <p>As well as have the report illegal discharges to stormwater flyer up in our 6 kiosks around the district by the end of year 1.</p>
Develop and maintain procedures for responding to illicit discharges, illegal dumping, and spills as described in Part IV.D.3.(c)(4).	Review and update the procedures at least one time annually to address changes and make improvements to the established procedures where applicable.

<p>Source investigation and elimination of illicit discharges and illegal dumping as described in Part IV.D.3.(c)(5).</p>	<p>Respond to 100% of known illicit discharges and illegal dumping incidents each year to investigate sources.</p> <p>Respond to 100% of high priority discharges each year, such as sanitary sewer discharges within 24 hours.</p> <p>For 100% of known illicit discharges or illegal dumping incidents where the small MS4 does not have jurisdiction, we will notify the adjacent MS4 operator or the applicable TCEQ regional office each year.</p> <p>Notify TCEQ immediately of 100% of illicit flows believed to be an immediate threat to human health or the environment throughout the permit term.</p>
<p>Corrective action to eliminate illicit discharges and illegal dumping as described in Part IV.D.3.(c)(5).</p>	<p>For 100% of illicit discharges or illegal dumping where a source has been determined, we will notify the party responsible for the problem within 24 hours.</p> <p>We will require the responsible party to perform all necessary corrective actions to eliminate the illicit discharge.</p>
<p>Inspection Procedures as described in Part IV.D.3.(c)(6).</p>	<p>Review and update the procedures at least one time annually to address changes and make improvements to the established procedures where applicable.</p>
<p>Inspections in response to complaints as described in Part IV.D.3.(c)(6).</p>	<p>Conduct inspections in response to 100% of complaints each year according to the established procedures.</p> <p>Conduct follow up inspections in 100% of cases each year where necessary as described in the established procedures.</p>

4. Construction Site Stormwater Runoff Control

Activity/BMP	Measurable Goals
Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D.4.(a).	Review and update our regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.
Prohibit discharges as described in Part IV.D.4.(b)(2).	<p>Develop and maintain regulatory mechanism to prohibit these discharges.</p> <p>Review and update the ordinance or other regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.</p>
Maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction as described in Part IV.D.4.(b)(3).	Review and update site plan review procedures at least one time annually to address changes and make improvements to the established procedures where applicable. Implement site plan review procedures for 100% of new construction site plans received each year.
Implement procedures for inspecting large and small construction projects as described in Part IV.D.4.(b)(4).	Review and update inspection procedures at least one time annually to address changes and make improvements to the established procedures where applicable.
Conduct construction site inspections as described in Part IV.D.4.(b)(4).	<p>Conduct inspections at a minimum of 80% of active construction sites annually according to the established procedures.</p> <p>Each year, conduct follow-up inspections in 100% of cases where necessary as described in the established procedures.</p>
Develop, implement, and maintain procedures for receipt and consideration of information submitted by the public as described in Part IV.D.4.(b)(5).	<p>Review and update procedures for the receipt and consideration of information submitted by the public at least one time annually to address changes and make improvements to the established procedures where applicable.</p> <p>Maintain one webpage, hotline, or similar method for receipt of information submitted by the public throughout the permit term.</p>
Conduct training for all the MS4 staff whose primary job duties are related to implementing the construction stormwater program as described in Part IV.D.4.(b)(6). Training may be conducted in person or using self- paced training materials such as videos or reading material.	Conduct a minimum of one training course annually for 100% of MS4 staff whose primary job duties are related to implementing the construction stormwater program.

5. Post Construction Stormwater Management in New Development and Redevelopment

Activity/BMP	Measurable Goals
Develop and maintain an ordinance or other regulatory mechanism as described in Part IV.D.5.(a)(2).	Review and update the regulatory mechanism at least one time during the permit term to address changes and make improvements to the ordinance where applicable.
Document and maintain records of enforcement actions and make them available for review by the TCEQ as described in Part IV.D.5.(b)(1).	<p>Maintain records of 100% of enforcement actions taken each year.</p> <p>Make 100% of enforcement records available to TCEQ for review within 24 hours of request.</p>
Ensure the long-term operation and maintenance of structural stormwater control measures installed as described in Part IV.D.5.(b)(2).	<p>Each year, implement a maintenance plan and schedule established by the small MS4 operator addressing 100% of stormwater control measures where the small MS4 operator is responsible for maintenance.</p> <p>Each year, require 100% of the owners or operators of any new development or redeveloped sites to develop and implement a maintenance plan addressing maintenance requirement for any structural control measures installed on site.</p> <p>Require the site owner or operators to maintain documentation, such as a tracking log, onsite of 100% of the maintenance performed and made available for review by the small MS4 operator or TCEQ within 24 hours of the request.</p>

6. Pollution Prevention and Good Housekeeping for Municipal Operations

All permittees shall meet the requirements described below including Table 13.

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:

1. Fern Bluff Community Center Parking Lot
2. Fern Bluff Elevated Tower
3. Fern Bluff Pump Station
4. Olson Meadows Parking Lot
5. Brightwater Parking Lot
6. Fern Bluff Community Center Stormwater Treatment Pond RN103171286
7. Fern Bluff Park Detention Pond

Activity/BMP	Measurable Goals
Permittee-owned Facilities and Control Inventory as described by Part IV.D.6.(b)(1)	Develop and maintain an annual inventory for 100% of the small MS4 owned and operated facilities and controls in the small MS4 area. Review and update the inventory at least one time annually to address changes or additions to the facilities and controls where applicable.
Training and Education as described in Part IV.D.6.(b)(2). Training may be conducted in person or using self- paced training materials such as videos or reading materials.	Conduct a minimum of one training annually for 100% of employees involved in implementing pollution prevention and good housekeeping practices.
Disposal of Waste Material as described in Part IV.D.6.(b)(3).	Ensure that 100% of waste from the MS4 is disposed of in accordance with 30 TAC Chapters 330 or 335, as applicable each year.

Activity/BMP	Measurable Goals
Contractor Requirements and Oversight as described in Part IV.D.6.(b)(4)	<p>Each year, ensure that 100% of contractors hired by the MS4 to perform maintenance activities on permittee-owned facilities is contractually required to comply with all of the stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures described in Parts IV D.6.(b)(2)-(6).</p> <p>Implement oversight procedures of contractor activities in 100% of contracts to ensure that contractors are using appropriate control measures and SOPs each year.</p> <p>Oversight procedures will be maintained on-site 100% of the time and made available for review by TCEQ within 24 hours of request.</p>
Assessment of permittee- owned operations as described in Part IV.D.6.(b)(5)a	<p>Evaluate 100% of O&M activities, in conjunction with procedure reviews for their potential to discharge pollutants in stormwater annually, including;</p> <ol style="list-style-type: none"> 1.Road and parking lot maintenance, including such areas as pothole repair, pavement marking, sealing, and re-paving; 2.Bridge maintenance, including such areas as re-chipping, grinding, and saw cutting; 3.Cold weather operations, including plowing, sanding, and application of deicing and anti-icing compounds and maintenance of snow disposal areas; and 4.Right-of-way maintenance, including mowing, herbicide and pesticide application, and planting vegetation.
Identify pollutants of concern as described in Part IV.D.6.(b)(5)b.	<p>Identify pollutants of concern that could be discharged from all of the O&M activities described in Part IV.D.6.(b)(5)b and maintain a list of 100% of the pollutants identified, for example, metals; chlorides; hydrocarbons such as benzene, toluene, ethyl benzene, and xylenes; sediment; and trash.</p> <p>Review and update the pollutants of concern list at least one time annually to address changes or additions to the O&M activities where applicable.</p>

Activity/BMP	Measurable Goals
Pollution Prevention Measures as described in Part IV.D.6.(b)(5)c.	<p>Develop and implement a set of pollution prevention measures that will reduce the discharge of pollutants in stormwater from the permittee-owned operations. Implement at least two of the following pollution prevention measures:</p> <ol style="list-style-type: none"> 1. Replace at least 50% of the MS4's materials and chemicals with more environmentally friendly materials or methods by the end of the permit term; 2. Track 100% of the application of deicing and anti-icing compounds in the MS4 area and record the amount of compound used for each application annually; 3. Use suspended tarps, booms, or vacuums to capture paint, solvents, rust, paint chips and other pollutants during 80% of regular bridge maintenance each year; and 4. Place barriers around or conduct runoff away from 100% of deicing chemical storage areas to prevent discharge into surface waters each year.
Inspection of Pollution Prevention Measures as described in Part IV.D.6.(b)(5)d.	<p>At least one time annually, visually inspect 100% of pollution prevention measures implemented at permittee-owned facilities to ensure they are working properly.</p> <p>Develop and maintain written procedures that describe the frequency of inspections and how they will be conducted.</p> <p>Review and update the inspection procedures at least one time annually to address changes or additions to the pollution prevention measures.</p> <p>Maintain a log of 100% of the inspections conducted annually and make the log available for review by the TCEQ within 24 hours of a request.</p>

Activity/BMP	Measurable Goals
Structural Control Maintenance as described by Part IV.D.6.(b)(6).	<p>At least one time annually, perform maintenance of 100% of the structural controls which require maintenance. Maintenance must follow a plan and schedule developed by the small MS4 operator to be consistent with maintaining the effectiveness of the BMP.</p> <p>The permittee shall develop and maintain written procedures that define the frequency of inspections and how they will be conducted.</p> <p>Review and update the maintenance procedures at least one time annually to address changes or additions to the pollution prevention measures.</p>

Fern Bluff MUD is greater than 99% residential connections. The district has no commercial connections and is built out with an extremely low chance of any re-construction being introduced. Our focus will be resident targeted to prevent pollution and on guidance on how to report illicit discharges. We have large park and trail areas that will be the second focus for keeping waterways clean and to take home the message for our residents that enjoy using our outdoor amenities.