



**Phase II (Small) MS4 Permit TXR040253**

**Annual Report - Year Two  
(October 2019 – September 2020)**



**December 2020**





**ROUND ROCK TEXAS**  
UTILITIES AND ENVIRONMENTAL SERVICES

**Mayor**  
Craig Morgan

**Mayor Pro-Tem**  
Writ Baese

**Councilmembers**  
Tammy Young  
Rene Flores  
Matthew Baker  
Will Peckham  
Hilda Montgomery

**City Manager**  
Laurie Hadley

**City Attorney**  
Stephan L. Sheets

December 22, 2020

Texas Commission on Environmental Quality  
Stormwater Team Leader (MC-148)  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: Phase II MS4 Annual Report Transmittal for City of Round  
Rock  
TPDES Authorization: TXR040253

Dear Team Leader:

This letter serves to transmit the required annual report for the  
Texas Pollutant Discharge Elimination System Small Municipal  
Separate Storm Sewer System General Permit, Authorization  
Number TXR040253 for the City of Round Rock.

The annual report is for Year 2. The reporting period's beginning  
10/01/2019 and ending 09/30/2020.

A separate Notice of Change [has not been] submitted based on  
the fact that changes [have not been] proposed for the next permit  
year.

The Notice of Change was submitted to TCEQ's Applications Review  
and Processing Team (MC-148): (N/A)

As required by the general permit, a copy of the report has been  
mailed to the TCEQ's regional office 11 in Austin Texas.

Sincerely,

Grayson Roberts  
MS4 Technician



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# Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

## A. General Information

Authorization Number: TXR040253

Reporting Year: 2

Annual Reporting Year Option Selected by MS4: Fiscal Year

Last day of fiscal year: (09/30)

Reporting period beginning date: (month/date/year) 10/01/2019

Reporting period end date: (month/date/year) 09/30/2020

MS4 Operator Level: 3 Name of MS4: City of Round Rock

Contact Name: Grayson Roberts Telephone Number: (512) 671-2867

Mailing Address: 3400 Sunrise Rd. Round Rock, TX 78665

E-mail Address: groberts@roundrocktexas.gov

A copy of the annual report was submitted to the TCEQ Region:

Yes, a copy of the annual report was submitted to Region 11.

## B. Status of Compliance with the MS4 GP and SWMP

1. Provide information on the status of complying with permit conditions:  
(TXR040000 Part IV.B.2)

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	✓		NOI has been submitted to the TCEQ along with updated SWMP.
Permittee is currently in compliance with recordkeeping and reporting requirements.	✓		All records are kept up to date and annual reports have been submitted on time.

Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.).	✓		Policies are reviewed and updated based on permit requirements.
Permittee conducted an annual review of its SWMP in conjunction with preparation of the annual report	✓		SWMP has been updated and submitted to the TCEQ.

2. Provide a general assessment of the appropriateness of the selected BMPs. You may use the table below to meet this requirement (**see Example 1 in instructions**):

<b>MCM(s)</b>	<b>BMP</b>	<b>BMP is appropriate for reducing the discharge of pollutants in stormwater (Answer Yes or No and explain)</b>
1: Public Education Outreach and Involvement	Attitude Survey	Yes, it increases public awareness, provides opportunity for public feedback, and allows us to assess current public knowledge. 51 responses were received.
1: Public Education Outreach and Involvement	Public Outreach and Education Campaign Development	Yes, it enhances community awareness of the City's high priority issues such as the Big 3 (bacteria, floatables, and fertilizer).
1: Public Education Outreach and Involvement	Pet Waste Education Campaign – Bacteria Impairment	Yes, 1 pet waste station was installed in City parks.
1: Public Education Outreach and Involvement	Cease the Grease – Bacteria Impairment	Yes, it educates customers on the proper disposal of fats, oils, and grease.
1: Public Education Outreach and Involvement	Event Participation	Yes, Stormwater participated in Smart Irrigation Month on June 24, July 1, July 8, July 15, and July 22.



1: Public Education Outreach and Involvement	Inlet Markers	125 inlet markers were installed.
1: Public Education Outreach and Involvement	Household Hazardous Waste Collection	Yes, there were 1,910 residents who participated in HHW events.
1: Public Education Outreach and Involvement	Brush Recycling and Mulch Program	Yes, 27,542 cubic yards of brush was recycled. 1,509 residents participated in the curbside brush recycling program.
2: Illicit Discharge, Detection, and Elimination	IDDE Procedures	Yes, the City documents and revises its procedures for responding to illicit discharges and spills, as necessary.
2: Illicit Discharge, Detection, and Elimination	IDDE – Reporting Hotline	Yes, 18 investigations were conducted, and all issues discovered were resolved.
2: Illicit Discharge, Detection, and Elimination	Staff Training (IDDE)	Yes, 55 staff members received stormwater training.
2: Illicit Discharge, Detection, and Elimination	MS4 Mapping	Yes, the City's storm drain map was updated with new, altered, and newly discovered storm drain features.
2: Illicit Discharge, Detection, and Elimination	Gilleland Sewer Leak Detection - TMDL	Yes, City crews inspected 0 feet of wastewater lines in the Gilleland Creek drainage basin. No lines within the Gilleland Creek drainage basin were on rotation for inspection this year.

2: Illicit Discharge, Detection, and Elimination	Edwards Aquifer Recharge Zone Leak Detection – Bacteria Impairment	Yes, City crews inspected 109,080 feet of wastewater lines.
2: Illicit Discharge, Detection, and Elimination	Grease Surcharge Program – TMDL/Bacteria Impairment	Yes, 113 facilities were monitored.
2: Illicit Discharge, Detection, and Elimination	Household Hazardous Waste Collection	Yes, 1,910 residents participated in Household Hazardous Waste events resulting in a collection of 66.03 tons. Of that amount, 44.75 tons were recycled.
2: Illicit Discharge, Detection, and Elimination	Oil Recycling Stations	Yes, 15,542 gallons of oil was collected and recycled.
2: Illicit Discharge, Detection, and Elimination	Recycling	Yes, the City's drop-off recycling center processed 156.83 tons of paper, metal, and plastic. Single stream recycling for all city residents resulted in 6,455 tons of material being recycled.
2: Illicit Discharge, Detection, and Elimination	Dry Weather Field Screening	Yes, 12 data points were collected and recorded from the six creek monitoring sites. This data is collected monthly.
3: Construction Site Stormwater Runoff Control	Construction Site Complaint Hotline	Yes, complaints were investigated as they were received.

3: Construction Site Stormwater Runoff Control	Plan Review and Site Inventory – Development	Yes, 63 development projects were reviewed and permitted.
3: Construction Site Stormwater Runoff Control	Construction Site Inspection – Development	Yes, all active development projects were inspected.
3: Construction Site Stormwater Runoff Control	Staff Training – Development	Yes, 55 staff members received stormwater training.
3: Construction Site Stormwater Runoff Control	Plan Review and Site Inventory – Capital Improvement Program	Yes, 16 CIP projects were active this year.
3: Construction Site Stormwater Runoff Control	Construction Site Inspection – Capital Improvement Program	Yes, all active CIP sites were inspected.
3: Construction Site Stormwater Runoff Control	Staff Training – CIP Staff	Yes, 55 staff members received stormwater training.
4: Post Construction Stormwater Management in New and Redevelopment	Legal Authority	Yes, reviewing existing ordinances and enforcement programs.

4: Post Construction Stormwater Management in New and Redevelopment	Permanent BMPs Plan Review – CIP	Yes, 16 CIP projects were reviewed this year.
4: Post Construction Stormwater Management in New and Redevelopment	Permanent BMPs Plan Review – Development and Redevelopment	Yes, 63 projects were reviewed.
4: Post Construction Stormwater Management in New and Redevelopment	Post Construction Site Inspection	Yes, 63 development and 16 CIP projects were inspected this year.
4: Post Construction Stormwater Management in New and Redevelopment	Long Term O&M – Permanent BMPs Permittee Owned	Yes, 175 gallons of vegetation and 10 gallons of floatables were removed from City-owned BMPs.
4: Post Construction Stormwater Management in New and Redevelopment	Long Term O&M and Enforcement – Permanent BMPs Privately Owned	Yes, no cases were referred for EARZ violations.
5: Good Housekeeping	Permittee Owned Facility Map and Inventory	Yes, updates are being made to the City's storm system map and the facility and control inventory.
5: Good Housekeeping	Contractor Requirements and Oversight	Yes, 19 contracts were approved this year.

5: Good Housekeeping	Operations and Maintenance Activity SOPs	Yes, evaluated current procedures and SOPs for high-risk maintenance activities.
5: Good Housekeeping	High Priority Facilities SOPs	Yes, identified high priority facilities and conducted inspections.
5: Good Housekeeping	Staff Training Good Housekeeping	Yes, 55 staff members received stormwater training.
5: Good Housekeeping	Street Sweeping	Yes, 3,828.38 curb miles were swept.
5: Good Housekeeping	Structural Control Maintenance	Yes, 175 gallons of vegetation and 10 gallons of floatables were removed from City-owned BMPs.

3. Describe progress towards achieving the goal of reducing the discharge of pollutants to the MEP. If no progress was made or the BMP did not result in a reduction in pollutants, provide an explanation. Use the table below to meet this requirement (**see Example 2 in instructions**):

<b>MCM</b>	<b>BMP</b>	<b>Information Used</b>	<b>Quantity</b>	<b>Units</b>	<b>Does the BMP Demonstrate a Direct Reduction in Pollutants? (Answer Yes or No and explain)</b>
1	Attitude Survey	Survey Participation	51	Participants	No. However, it promotes stormwater awareness. It also provides an opportunity for public feedback to focus efforts for future education campaigns.
1	Pet Waste Education Campaign – Bacteria Impairment	City parks	1	Pet waste stations	Yes. Many of the City parks include waterways, which drain to Brushy Creek. Providing waste stations keeps pet waste out of these waterways.
1	Inlet Markers	GIS data	125	Inlet markers	No. However, this BMP does promote citizen's awareness of the storm drain system. It also enables them to be more conscientious of potential pollutants around inlets.

1	Household Hazardous Waste Collection	Event participation	1,910	Residents	Yes. Collection events encourage proper disposal, keep materials from entering waterways, and get residents involved in water quality efforts.
1	Brush Recycling and Mulch Program	Brush collected	27,542	Cubic yards of brush	Yes. Brush recycling encourages the proper disposal of tree and shrubbery waste keeping the materials from entering the waterways.
1	Brush Recycling and Mulch Program	Event participation	1,509	Residents	Yes. Brush recycling encourages the proper disposal of tree and shrubbery waste keeping the materials from entering the waterways.
2	IDDE – Reporting Hotline	Report documentation	18	Investigations	Yes. By responding and investigating illicit discharges, we reduce the amount of pollution in our waterways.
2	Staff Training (IDDE)	Sign-in sheets	55	Staff members	Yes. Staff members are training to identify potential cases of illicit discharge and respond to spills.
2	Gilleland Sewer Leak Detection - TMDL	CCTV Footage	0	Feet of wastewater lines	Yes. By identifying and eliminating any sanitary sewer leaks, we reduce the potential for E. coli bacteria discharge.

2	Edwards Aquifer Recharge Zone Leak Detection – Bacteria Impairment	CCTV Footage	109,080	Feet of wastewater lines	Yes. By identifying and eliminating any sanitary sewer leaks, we reduce the potential for E. coli bacteria discharge.
2	Grease Surcharge Program – TMDL/Bacteria Impairment	Sampling	113	Facilities	Yes. The City monitors all non-residential user's wastewater discharges. This program provides a financial incentive to use best practices to prevent overflows.
2	Household Hazardous Waste Collection	Waste collected	66.03	Tons of waste	Yes. The City provides proper disposal opportunities for residents, keeping waste from entering the waterways.
2	Household Hazardous Waste Collection	Waste recycled	44.75	Tons of waste	Yes. The City recycles the waste provided by residents, keeping waste from entering the waterways.
2	Oil Recycling Stations	Oil collected	15,542	Gallons of oil	Yes. The City collects oil from residents, keeping waste from entering the waterways.
2	Recycling	Material processed	156.83	Tons of paper, metal, and plastic	Yes. The City provides a drop off recycling center for residents, keeping the waste from entering the waterways.



2	Recycling	Material recycled	6,455	Tons of material	Yes. The City offers curbside recycling for residents, keeping the waste from entering the waterways.
2	Dry Weather Field Screening	Monthly creek monitoring data	12	Data points collected	Yes. Water quality can be tested by monitoring the creeks for pH, DO, temperature, conductivity, and bacteria levels.
2	Dry Weather Field Screening	Creek monitoring locations	6	Sites	Yes. Illicit discharges can be detected by using key sites along Brushy Creek and Lake Creek.
3	Plan Review and Site Inventory – Development	Plans	63	Projects	Yes. Reviewing projects to ensure designs are compliant with CGP, the EAR, and city ordinances.
3	Staff Training – Development	Sign-in sheets	55	Staff members	Yes. Project managers are familiar with stormwater permitting requirements.
3	Plan Review and Site Inventory – Capital Improvement Program	Plans	16	CIP projects	Yes. Reviewing CIP projects to ensure designs are compliant with the CGP, the EAR, and City ordinances.
3	Staff Training – CIP Staff	Sign-in sheets	55	Staff members	Yes. Staff is informed on stormwater permitting requirements for CIP projects.

4	Permanent BMPs Plan Review – CIP	Plans	16	CIP projects	Yes. Reviewing CIP projects to ensure designs are compliant with City ordinances and policies as updated.
4	Permanent BMPs Plan Review – Development and Redevelopment	Plans	63	Projects	Yes. Review projects to ensure designs are compliant with City ordinances and policies as updated by the current MS4 General Permit.
4	Post Construction Site Inspection	Plans	63	Development projects	Yes. Inspecting permanent BMPs ensures compliance with plans, City ordinances, and practices.
4	Post Construction Site Inspection	CIP Project List	16	Projects	Yes. Inspecting permanent BMPs ensures compliance with plans, City ordinances, and practices.
4	Long Term O&M – Permanent BMPs Permittee Owned	GIS data	175	Gallons of vegetation	Yes. Maintaining City-owned water quality and detention facilities reduces the release of pollutants to the MS4.
4	Long Term O&M – Permanent BMPs Permittee Owned	GIS data	10	Gallons of floatables	Yes. Maintaining City-owned water quality and detention facilities reduces the release of pollutants to the MS4.

5	Contractor Requirements and Oversight	City Council agenda	19	Approved contracts	Yes. Ensuring all contractors perform maintenance activities using appropriate control measures and SOPs to minimize the release of pollutants to the MS4.
5	Staff Training Good Housekeeping	Sign-in sheets	55	Staff members	Yes. Staff members are trained on good housekeeping measures to prevent stormwater pollution.
5	Street Sweeping	GIS data	3828.38	Curb miles	Yes. Regular street sweeping of public streets and high priority facilities minimize the release of pollutants from roadways and parking lots to the MS4.
5	Structural Control Maintenance	GIS data	175	Gallons of vegetation	Yes. Inlet cleaning and permanent BMP maintenance reduces the level of pollutants discharged to the MS4.
5	Structural Control Maintenance	GIS data	10	Gallons of floatables	Yes. Inlet cleaning and permanent BMP maintenance reduces the level of pollutants discharged to the MS4.

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (see **Example 3 in instructions**):

<b>MCM</b>	<b>Measurable Goal(s)</b>	<b>Explain progress toward goal or how goal was achieved.</b>
1	Conduct attitude survey for residents.	Met goal – 51 responses were received.
1	Install pet waste stations in City parks.	Met goal – 1 pet waste station was installed in City parks.
1	Install inlet markers for the storm drain system.	Met goal – 125 inlet markers were installed.
1	Have residents participate in Household Hazardous Waste events.	Met goal – 1,910 residents participated in HHW events.
1	Collect brush from residents with brush recycling program.	Met goal – 27,542 cubic yards of brush was recycled, and 1,509 residents participated in the curbside brush recycling program.
2	Investigate citizen complaints and staff reports regarding illicit discharges.	Met goal – 18 investigations were conducted this year.
2	Train staff on illicit discharge detection and elimination.	Met goal – 55 staff members were trained this year.
2	Inspect wastewater lines in the Gilleland Creek drainage basin.	Met goal – 0 feet of wastewater lines were inspected. Gilleland Creek basin lines weren't in rotation for inspection this year.
2	Inspect wastewater lines in the Edwards Aquifer Recharge Zone.	Met goal – 109,080 feet of wastewater lines were inspected.
2	Monitor non-residential user's wastewater discharges.	Met goal – 113 facilities were monitored this year.
2	Collect Household Hazardous Waste from residents.	Met goal – 66.03 tons of waste was collected.
2	Recycle Household Hazardous Waste collected from residents.	Met goal – 44.75 tons of waste was recycled.

2	Collect used oil at stations throughout the City.	Met goal – 15,542 gallons of oil was collected.
2	Process recyclable material from residents at the drop-off recycling center.	Met goal – 156.83 tons of paper, metal, and plastic was processed.
2	Recycle materials from residents at the drop-off recycling center.	Met goal – 6,455 tons of material was recycled.
2	Collect dry weather field screening data on a monthly basis.	Met goal – 12 measurements were taken.
2	Identify key sites along Brushy Creek and Lake Creek for dry weather field screening.	Met goal – 6 sites are monitored on a monthly basis.
3	Continue plan review and inventory for all projects.	Met goal – 63 projects were reviewed.
3	Train staff on stormwater permitting requirements.	Met goal – 55 staff members were trained this year.
3	Review CIP projects to ensure designs are compliant with the CGP, the EAR, and City ordinances.	Met goal – 16 CIP projects were reviewed.
3	Train project managers on stormwater requirements for CIP projects.	Met goal – 55 staff members were trained this year.
4	Review CIP projects to ensure designs are compliant with City ordinances and policies as updated.	Met goal – 16 CIP projects were reviewed.
4	Review projects to ensure designs are compliant with City ordinances.	Met goal – 63 projects were reviewed.
4	Inspect and document permanent BMPs for compliance with plans, City ordinances, and practices.	Met goal – reviewed 63 development projects and inspected 16 CIP projects.
4	Maintain City-owned water quality and detention facilities.	Met goal – removed 175 gallons of vegetation and 10 gallons of floatables.

5	Ensure all city contractors perform maintenance activities using appropriate control measures.	Met goal – 19 contracts were approved.
5	Train staff on good housekeeping measures for stormwater.	Met goal – 55 staff members were trained this year.
5	Sweep public streets and City facilities.	Met goal – 3828.38 curb miles were swept.
5	Clean City-owned inlets and maintain permanent BMPs.	Met goal – removed 175 gallons of vegetation and 10 gallons of floatables.

### **C. Stormwater Data Summary**

In the effort of reducing the discharge of pollutants into the MS4, the City of Round Rock cleans inlets of debris. The city collected 10 gallons of floatables and 175 gallons of vegetation from inlets. The city also performed street sweeping of 3,828.38 curb miles this year. Wastewater lines are inspected to prevent leaks and overflows. This year, 109,080 feet of wastewater lines were inspected, and 113 non-residential facilities were monitored for wastewater discharges. These practices contribute toward the reduction of pollutant discharge, as well as detail the success of the SWMP.

## **D. Impaired Waterbodies**

1. Identify whether an impaired water within the permitted area was added to the latest EPA-approved 303(d) list or the Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d). List any newly-identified impaired waters below by including the name of the water body and the cause of impairment.

There have been no newly-identified impaired waters.

2. If applicable, explain below any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern.

Most of the City (98%) drains into Segments 1244\_03 and 1244\_04 in Brushy Creek in the *2006 Texas Water Quality Inventory and 303(d) List*. Data the TCEQ analyzed from the assessment period from 1999-2004 showed slightly higher concentrations of E. coli and fecal coliform bacteria. Since 2004, E. coli bacteria levels in Brushy Creek have remained relatively stable (under 206 colonies/100ml) despite the City's rapid urbanization.

### **Selected Bacteria Impairment BMPs**

As required by the TPDES General Permit, the City has selected the following BMPs to specifically target bacteria loading reductions. Water quality sampling is not included in the City's SWMP.

#### *Sanitary Sewer Systems*

Overflows from sanitary collection systems are infrequent, but when they occur, they can be a significant source of E. coli. bacteria. Aging infrastructure in need of repair can also contribute to bacteria loadings. The City routinely inspects and repairs the sanitary sewer system in our most sensitive areas which are over the Edwards Aquifer. Other areas of the cities are inspected and repaired as necessary.

## MCM #2 Illicit Discharge Detection and Elimination

### EARZ Leak Detection-Bacteria Impairment

Identify and eliminate any sanitary sewer leaks within the most sensitive areas (EARZ) to reduce the potential for bacteria discharge. Sanitary sewer lines within the EARZ will be evaluated every 5 years.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

Annual Goals	
<b>Permit Year 2</b> <b>Oct 2019-Sept 2020</b>	Continue the annual sanitary sewer leak determination and elimination program.  <b>City crews inspected 109,080 feet of wastewater lines.</b>

### *On-Site Sewage Facilities*

On-Site Sewage Facilities (OSSFs) can be potential source of *E. coli*. Bacteria. There are very few OSSF's within the City because population growth primarily began in the mid 1970's and new users are required to connect to the City's wastewater collection system. The WCCHD (Williamson County and Cities Health District) is the designated agent of the TCEQ overseeing OSSFs in our area. The City's role in monitoring these facilities is limited to enforcement of the Illicit Discharge ordinance. In the event the City receives a complaint or observes a problem with an OSSF, staff will coordinate with the WCCHD.

<b>Permit Year 2</b> <b>Oct 2019-Sept 2020</b>	No OSSF cases were referred during permit year 2.
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### *Illicit Discharges and Dumping*

The public can be our greatest ally in preventing illicit discharges, including sanitary sewer overflows, which can contribute to increased *E.coli*. Bacteria levels in the City's waterways. Educating the public on the proper disposal of fats, oils, and grease can reduce the potential for overflows. Providing a financial incentive to businesses can assist in bringing about amendments to long held company policies.



MCM #1 Public Education Outreach and Involvement

Cease the Grease-Bacteria Impairment

A Public Education Outreach and Involvement campaign will be developed and implemented to reduce any bacteria loading from sanitary overflows. Educating customers on the proper disposal of fats, oils and grease can lead to behavioral changes and eliminate one of the greatest causes of residential sewer backups.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Continue implementation.
<b>Oct 2019-Sept 2020</b>	<b>Flyers were distributed to HOAs and in areas where there were grease related backups.</b>

MCM #2 Illicit Discharge Detection and Elimination

Grease Surcharge Program-TMDL/Bacteria Impairment

Continue inspections, education, monitoring and enforcement targeted at reducing the level of fats, oils, and grease that enter the City’s sanitary sewer system to minimize E.coli bacteria levels in area waterways from sanitary overflows. The City monitors all non-residential users’ wastewater discharges. Users whose wastewater exceeds standards receive a surcharge. Educational material is available from the City on how to reduce these levels and reduce their fee. This program provides a financial incentive to use best practices to prevent overflows.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Continue education, monitoring and enforcement program.
<b>Oct 2019-Sept 2020</b>	<b>113 Facilities were monitored in PY02.</b>

## Animal Sources

Animals can be potential source of *E.coli*. Bacteria. From March through November of each year, the City is home to a population of Mexican free-tailed bats who reside under the TXDOT operated IH35 bridge at McNeil Road. Other species native to the Round Rock area are feral hogs, ducks, possums, raccoons, turtles, etc.

There are no zoos within the City and there is minimal agricultural activity. Household pets are present in numbers consistent with a primarily urban landscape. During the previous permit term, pet waste stations were installed throughout City Parks.

### MCM #1 Public Education Outreach and Involvement

#### Pet Waste Education Campaign-Bacteria Impairment

Many of the City parks include waterways, which drain to Brushy Creek. A public education campaign on pet waste will be developed and implemented to reduce any bacteria loading from pet waste.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Continue educational campaign.
<b>Oct 2019-Sept 2020</b>	<b>PARD signage and 1 pet waste station was installed.</b>

3. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL.

**Selected TMDL BMP's**

As required by the TPDES General Permit, the City has selected the following BMPs to specifically target bacteria loading reductions.

***Sanitary Sewer Systems***

***Overflows from sanitary collection systems are infrequent, but when they occur, they can be a significant source of E.coli Bacteria. Aging infrastructure in need of repair can also contribute to bacteria loadings. Although not a component of the I-Plan, the City will proactively inspect and make any necessary repairs to the sanitary sewer in the Gilleland watershed this permit term.***

MCM #2 Illicit Discharge Detection and Elimination

Gilleland Sewer Leak Detection-TMDL

Identify and eliminate any sanitary sewer leaks within the Gilleland Creek drainage basin to reduce the potential for E.coli bacteria discharge.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Complete any remaining repairs.
<b>Oct 2019-Sept 2020</b>	<b>No additional repairs required. 0 feet of wastewater lines in Gilleland Creek drainage basin were inspected. Gilleland Creek drainage basin lines weren't in rotation for inspection this year.</b>

**EARZ Leak Detection-Bacteria Impairment**

Identify and eliminate any sanitary sewer leaks within the most sensitive areas (EARZ) to reduce the potential for bacteria discharge. Sanitary sewer lines within the EARZ will be evaluated every 5 years.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b> <b>Oct 2019-Sept 2020</b>	Continue the annual sanitary sewer leak determination and elimination program.  <b>City crews inspected 109,080 feet of wastewater lines.</b>

*On-Site Sewage Facilities*

On-Site Sewage Facilities (OSSFs) can be potential source of *E.coli* Bacteria. There are very few OSSF's within the City because population growth primarily began in the mid 1970's and new users are required to connect to the City's wastewater collection system. The Transportation and Natural Resources department of Travis County and the City of Austin are the designated agents of the TCEQ overseeing OSSFs in the Gilleland Creek Watershed. As part of the I-Plan, Travis County has held several workshops to educate owners on the proper maintenance and inspection of OSSFs. The City's role in monitoring these facilities is limited to enforcement of the Illicit Discharge ordinance. In the event the City receives a complaint or observes a problem with an OSSF, staff will coordinate with Travis County.

<b>Permit Year 2</b> <b>Oct 2019-Sept 2020</b>	No OSSF cases were referred during permit year 2.
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***Illicit Discharges and Dumping***

The public can be our greatest ally in preventing illicit discharges, including sanitary sewer overflows, which can contribute to increased bacteria levels in the City’s waterways. Educating the public on the proper disposal of fats, oils and grease (FOG) can reduce the potential for overflows. Providing a financial incentive to businesses can assist in bringing about amendments to long held company policies.

MCM #1 Public Education Outreach and Involvement

Cease the Grease-Bacteria Impairment

A Public Education Outreach and Involvement campaign will be developed and implemented to reduce any bacteria loading from sanitary overflows. Educating customers on the proper disposal of fats, oils and grease can lead to behavioral changes and eliminate one of the greatest causes of residential sewer backups.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Continue implementation.
<b>Oct 2019-Sept 2020</b>	<b>Flyers were distributed to HOAs and in areas where there were grease related backups.</b>

MCM #2 Illicit Discharge Detection and Elimination

Grease Surcharge Program-TMDL/Bacteria Impairment

Continue inspections, education, monitoring and enforcement targeted at reducing the level of fats, oils, and grease that enter the City’s sanitary sewer system to minimize E.coli bacteria levels in area waterways from sanitary overflows. The City monitors all non-residential users’ wastewater discharges. Users whose wastewater exceeds standards receive a surcharge. Educational material is available from the City on how to reduce these levels and reduce their fee. This program provides a financial incentive to use best practices to prevent overflows.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

<b>Annual Goals</b>	
<b>Permit Year 2</b>	Continue education, monitoring and enforcement program.
<b>Oct 2019-Sept 2020</b>	<b>113 Facilities were monitored in PY02.</b>

## Animal Sources

Animals can be potential source of *E.coli*. Bacteria. Other species native to the Round Rock area are feral hogs, ducks, possums, raccoons, turtles, etc.

There are no zoos within the City and there is minimal agricultural activity. Household pets are present in numbers consistent with a primarily urban landscape. One of the components of the I-Plan targets pet waste education and reduction.

### MCM #1 Public Education Outreach and Involvement

#### Pet Waste Education Campaign-Bacteria Impairment

Many of the City parks include waterways, which drain to Brushy Creek. A public education campaign on pet waste will be developed and implemented to reduce any bacteria loading from pet waste.

**BMP Effectiveness:** Effective. See BMP description above for appropriateness.

Annual Goals	
<b>Permit Year 2</b>	Continue educational campaign.
<b>Oct 2019-Sept 2020</b>	<b>PARD signage and 1 pet waste station was installed.</b>

4. Report the benchmark identified by the MS4 and assessment activities:

Waste Load Allocations for Gilleland Creek – Only point sources were allotted an individual waste load allocation (WLA) in the I-Plan; thus, the City is part of an aggregate WLA. The small drainage area in Round Rock that drains to the Gilleland watershed is above the headwaters. The City and other TMDL partners recently updated the I-Plan in May of 2020.

5. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark:

<b>Benchmark Parameter</b>	<b>Selected BMP</b>	<b>Contribution to achieving Benchmark</b>
N/A	I-Plan	Participating in updating the I-Plan with other TMDL partners.

6. If applicable, report on focused BMPs to address impairment for bacteria:

<b>Description of bacteria-focused BMP</b>	<b>Comments/Discussion</b>
N/A	See number two

7. Assess the progress to determine BMP's effectiveness in achieving the benchmark.

<b>Benchmark Indicator</b>	<b>Description/Comments</b>
N/A	See number four



## E. Stormwater Activities

Describe activities planned for the next reporting year:

BMP activity goals will be continued with changes made as required by the new permit.

## F. SWMP Modifications

1. The SWMP and MCM implementation procedures are reviewed each year.

Yes  No

2. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

Yes  No

If "Yes," report on changes made to measurable goals and BMPs:

<b>MCM(s)</b>	<b>Measurable Goal(s) or BMP(s)</b>	<b>Implemented or Proposed Changes (Submit NOC as needed)</b>
2: Illicit Discharge, Detection, and Elimination	Dry Weather Field Screening	We have begun dry weather monitoring for Brushy Creek and Lake Creek in the Round Rock city limits. Six sites are monitored on a monthly basis for pH, dissolved oxygen, conductivity, temperature, and bacteria levels.

**Note:** If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible, and why the replacement BMP is expected to achieve the goals of the original BMP.

3. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land, etc.).

Dry weather field screening is a new BMP for Round Rock. While it is not yet required by the MS4 permit to report this BMP, Round Rock will be classified as a level 4 small MS4 next permit cycle in 2024. Starting creek monitoring now will result in a larger data set for when the MS4 Permit requires this BMP.

## G. Additional BMPs for TMDLs and I-Plans

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans.

No additional BMPs are recommended at this time. The SWMP already includes BMPs to address bacteria impairments and considers the Gilleland Creek I-Plan.

## H. Additional Information

1. Is the permittee relying on another entity to satisfy any permit obligations?

Yes  No

If "Yes," provide the name(s) of other entities and an explanation of their responsibilities (add more spaces or pages if needed).

2.a. Is the permittee part of a group sharing a SWMP with other entities?

Yes  No

2.b. If "yes," is this a system-wide annual report including information for all permittees?

Yes  No

## I. Construction Activities

1. The number of construction activities that occurred in the jurisdictional area of the MS4 (Large and Small Site Notices submitted by construction site operators):

63

2a. Does the permittee utilize the optional seventh MCM related to construction?

Yes  No


2b. If "yes," then provide the following information for this permit year:

## J. Certification

If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).

*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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Name (printed): Michael Thane Title: Utilities and Environmental Services Director

Signature:  Date: December 18, 2020

Name of MS4: City of Round Rock



**For supporting documents contact:**

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