

NORMAN TMDL ACTION PLAN

Compliance Plan & Monitoring Plan for
the Lake Thunderbird TMDL



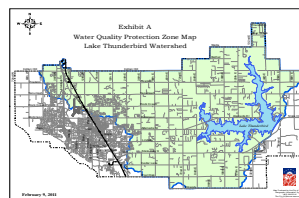
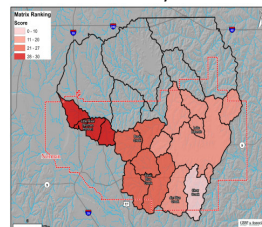
City of Norman, Oklahoma

IMPLEMENT MONITORING PLAN

Monitoring Plan –

- Install Water Level Gauges at 10 Creek Stations
- Monthly Sampling, In Stream Monitoring and Flow Monitoring
 - Storm-Flow Sampling (4/year Minimum)
 - Begin Rotating Sampling of 14 Major Discharge Locations
- Maintain Quality Assurance Project Plan Requirements
- Partner with OCC for Cost-Free Biological Monitoring (Every Other Year)

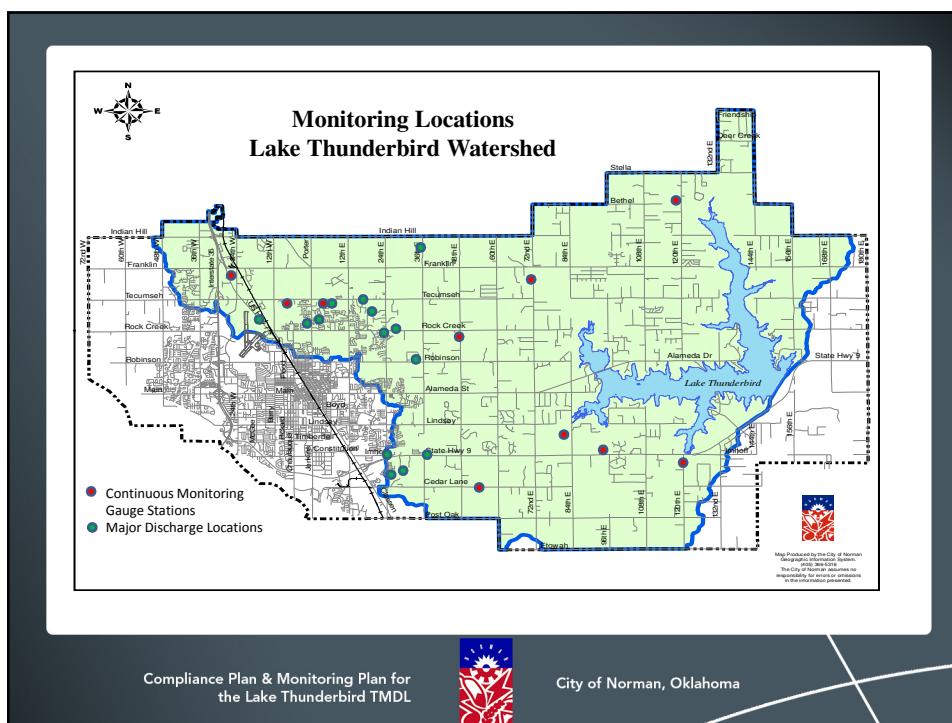
Ranking of Critical Sub-Watersheds in Norman MS4 Boundary



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IMPLEMENT COMPLIANCE PLAN

- Implement Non-Structural BMPs
 - Increase Street Sweeping and Storm Sewer Maintenance
 - Educational Based Programs
 - ▶ Fertilizer Use
 - Soil testing before applying Phosphorus
 - Applicator registration and education
 - Community outreach
 - ▶ Pet Waste Management
 - Pet waste receptacles in City parks (30 receptacles located in 25 of the 62 parks)
 - Community outreach through media
 - ▶ Septic System Maintenance
 - Identify properties with private sewage systems for educational outreach
 - ▶ Watershed Protection
 - Educate property owners on stream protection



IMPLEMENT COMPLIANCE PLAN



Improve Construction Storm Water Compliance with Existing Regulations

- Continued Education and Training
 - Bi-annual training with builders and developers
 - Quarterly storm water newsletter
 - On-site individual technical assistance
- Review of Storm Water Pollution Control Plans prior to and during construction
- Inspection of sites during construction
- Enforcement of regulations based on noted violations during construction

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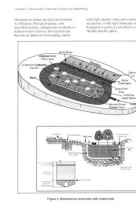
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FUTURE PLANS (2017 – 2020)

- Implement Non-Structural BMPs
 - Street Sweeping Increases and Inlet Clean out Increases
 - Street Sweeping Increase from Annually/Bi-Annually (Secondary Roads/Arterial Roads) to Bi-Annually/ Quarterly
- Rededicate Enforcement of Construction Storm Water Requirements
- Review First Three Years of Monitoring Data
 - Set New Loading Baseline (Using all Available Data)
 - Adapt Compliance Plan as Necessary
- Implement Stream Stabilization BMPs
 - Partner with OCC and Local Agricultural Extension Agent to Accomplish this Task



Figure 1: Bioswale created in a parking lot area around



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FUTURE PLANS (2020 AND 2021)

- Implement Urban/ Suburban Structural BMPs
 - Review Ordinances for Applicability (Revise Ordinances if Needed)
 - Identify Key Areas
 - Begin with Demonstration Projects
- Riparian Buffer Restorations Begin
- Review First Five Years of Monitoring Data
 - Assess Compliance Status with Load Requirements
 - Evaluate Validity of TMDL

ST-3 CONSTRUCTED WETLANDS

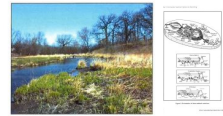


Figure 1. This wetland area constructed to meet requirements from a nearby residential area.



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