

5. GRAND REGION

This chapter represents the activities to be performed by the MDOT Grand Region in fulfillment of the Permit requirements. Each region has its own chapter within this Storm Water Management Plan (SWMP) containing the required activities it will perform as described in the SWMP Activities (Section 3.7).

Included in this chapter is an outline of the proposed procedures described in the activities that will be incorporated into MDOT roadway projects, a map of the Grand Region facilities (Figure 5-1), contact and address information (Table 5-1), a table containing the activities the Grand Region will implement (Table 5-2), and the Phase II IDEP Investigation Maps for the Grand Region (Figures 5-2 through 5-4). Each SWMP activity is represented in Table 5-2 with a checkmark next to the applicable activities. Each activity is also indicated as a statewide or an urbanized area requirement per the Permit.

The facility map is included to indicate locations where pollution prevention measures are taken. Contact information is provided on the MDOT employees in managerial positions for each Region/Transportation Service Center (TSC). The Phase II IDEP Investigation Maps were developed as part of the Illicit Discharge Elimination Program (IDEP). The maps indicate MDOT roadways that cross impaired waterbodies within urbanized areas. Impaired waterbodies refer to those waterbodies listed on the MDEQ 2004 305(b) and 303(d) Impaired Waterbodies List.

Additionally, a CD-ROM containing outfall maps representing the location of each outfall investigated during the Phase I program is available upon request from MDOT. During the NPDES Phase I storm water program, approximately 366 outfalls were investigated throughout the six permitted cities as part of the IDEP. The six permitted cities included Ann Arbor, Grand Rapids, Flint, Sterling Heights, Warren, and Livonia, with Grand Rapids being the only permitted city within the Grand Region. MDOT conducted 107 outfall investigations within the City of Grand Rapids.

The following outline of proposed SWMP procedures shows the order in which individual activities, as described in Chapter 3, are followed within the scope of a typical MDOT roadway project. Once these procedures are developed, they will be incorporated into MDOT projects on a case-by-case basis depending on the scope and needs of the project.

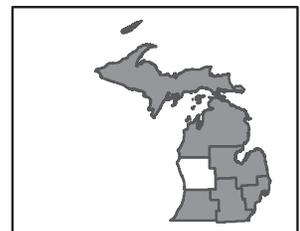
1. Early coordination with MDEQ will be sought during the initial design of selected projects (MDEQ Early Coordination Workgroup).
2. Metropolitan Planning Organizations (MPO)s with storm water management plans or storm water master plans will be identified and worked with to assure plan obligations are met.
3. Post construction Best Management Practices (BMPs) will be selected based on MDOT BMP selection criteria with consideration given to MDEQ and MPO input to the maximum extent practicable. BMP selection will also be based on approved BMPs in the

MDOT Drainage Manual and any Total Maximum Daily Load (TMDL) requirements (BMP Design and Maintenance Workgroup).

4. Maintenance requirements will be developed for new BMPs (BMP Design and Maintenance Workgroup).
5. Post-construction BMPs will be properly installed and maintained following BMP selection.
6. Construction activities will be conducted under MDOT's approved Soil Erosion and Sedimentation Control (SESC) Plan and the State of Michigan's Permit by Rule.
7. The outfall labeling procedure will be implemented if new outfalls are planned within urbanized areas. The consultant conducting outfall mapping will be notified that new outfalls are in place (Outfall Labeling Workgroup).
8. Existing known outfalls will be identified and mapped (Outfall Mapping Workgroup).
9. New flow control structures in urbanized areas will be reviewed and assessed for water quality benefits gained based on calculated pollutant removal rates.
10. SWMP activities will be tracked and documented. Examples include tracking the number of outfalls labeled and tracking maintenance activities through the Maintenance Activity Reporting System (MARS) (Program Assessment and Reporting Workgroup).

For specific roadway projects scheduled to be completed in the Grand Region, refer to MDOT's 2004-2008 Five Year Transportation Program. The 2004-2008 Five Year Transportation Program is a report highlighting Michigan's plan for preserving and improving its transportation network. The report describes the planned projects for each MDOT region. A link to the report is available on the MDOT Storm Water Management Web site. The 2004-2008 Five Year Transportation Program is currently underway and will limit the ability to implement new procedures not yet adopted by MDOT. Therefore, new procedures will be incorporated as they are adopted.

Figure 5-1 Grand Region Facilities Map



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MDOT Facilities

Grand Region

1:860,000

Data Source: Center for Geographic Information & MDOT Web Site



TETRA TECH MPS

Designer: NKT Date: 11-17-04

Legend

- MDOT Roads
- County
- MDOT Regions
- MDOT Facilities**
Region Office
- Rest Area
- TSC

Table 5-1 Grand Region Contact Information

<p>Grand Region Office Region Engineer: Roger Safford Region Storm Water Coordinator: Steve Houtteman</p>	<p>1420 Front Avenue, N.W., Grand Rapids, MI 49504 Phone: 616-451-3091 FAX: 616-451-0707</p>
<p>Grand Rapids TSC Manager: Suzette Peplinski 1420 Front Ave., NW Grand Rapids, MI 49504</p>	<p>Phone: 616-451-3091 FAX: 616-451-0707</p>
<p>Howard City TSC Manager: Karl Koivisto 19153 W. Howard City-Edmore Rd. Howard City, MI 49329</p>	<p>Phone: 231-937-7780 FAX: 231-937-2281</p>
<p>Muskegon TSC Manager: Tim Judge 2225 Olthoff Drive Muskegon, MI 49444</p>	<p>Phone: 231-777-3451 FAX: 231-777-3621</p>
<p>Muskegon Rest Area 501 US-31 SB, Mile Marker 124</p>	<p>Muskegon County South bound on US-131, 0.5 mile south of White Lake Road Exit</p>
<p>Fruitport Rest Area 502 I-96 WB, Mile Marker 8</p>	<p>Ottawa County West bound on I-96, 1 mile beyond Exit 9 also called Spring Lake Exit</p>
<p>Walker Rest Area 503 I-96 EB, Mile Marker 25</p>	<p>Kent County</p>
<p>Rockford Rest Area 525 US-131 SB, Mile Marker 99</p>	<p>Kent County South bound on US-131, 1.5 miles north of Rockford Exit</p>
<p>Zeeland Rest Area 528 I-196 NB, Mile Marker 58</p>	<p>Ottawa County</p>
<p>Rothbury Rest Area 529 US-31 NB, Mile Marker 135</p>	<p>Oceana County North bound on US-31, 1.5 miles south of Rothbury Exit</p>
<p>Hart Rest Area 530 US-31 SB, Mile Marker 147</p>	<p>Oceana County</p>
<p>Portland Rest Area 531 I-96 WB, Mile Marker 79</p>	<p>Ionia County West bound on I-96, 1 mile east of Portland</p>

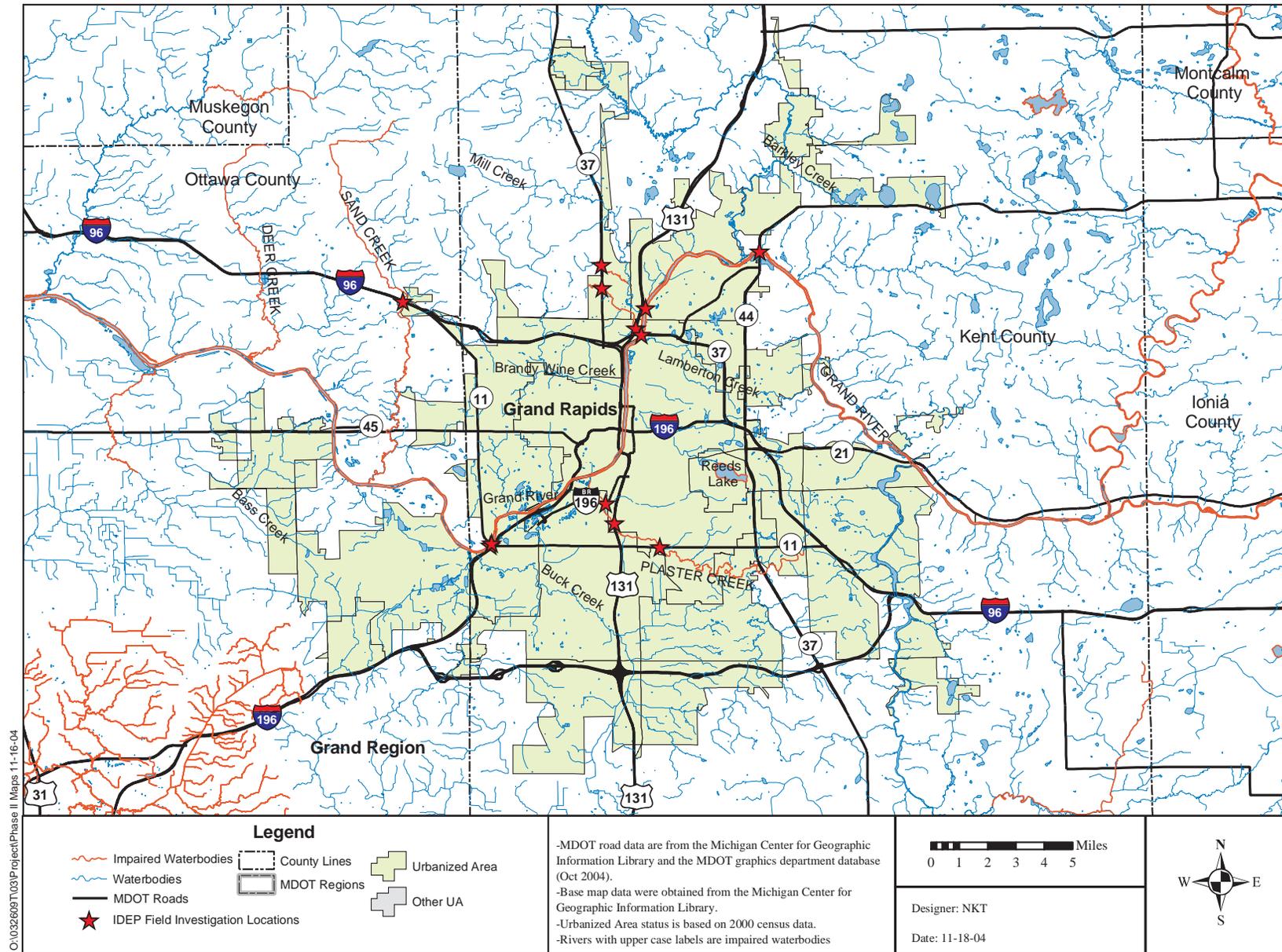
Saranac Rest Area 532 I-96 EB, Mile Marker 63	Ionia County East bound on I-96, 2.5 miles east of Morrison Lake Rd.
Morley Rest Area 533 US-131 NB, Mile Marker 122	Montcalm County
Big Rapids Rest Area 534 US-131 SB, Mile Marker 136	Mecosta County

Table 5-2 Grand Region Activity Requirements

Activity #	Statewide (S) or Urbanized Area (UA)	Implemented in this Region
E-1: Maintain and Use Lansing Information Center	S*	√
E-2: Publish Articles in MDOT Publications	S*	
E-3: Provide Information on Watershed Stewardship on the MDOT Public Web site	S*	
E-4: Provide Education Materials Along with Tap-in/Discharge Permit Applications	S	√
E-5: Notify and Invite Public to Review and Comment on the Storm Water Management Plan (SWMP)	S*	√
E-6: Determine Partnership Potential with MDEQ Statewide Public Education Program	S*	
T-1: Present Applicable Training Modules to Lansing & Region/TSC Staff	S	√
T-2: Certify MDOT's Staff for Pesticide/Fertilizer Application	S*	√
T-3: Train Staff Responsible for Administering Part 91 and those having Decision Making Authority for SESC Development or Review, Inspections, or Enforcement; and Storm Water Operators as Required under Part 31	S*	√
T-4: Survey MDOT Staff on Storm Water Knowledge	S*	√
I-1: Submit and Implement Mapping Schedule for Outfalls	UA*	√
I-2: Perform Inventory and Screening on Outfalls	UA*	√
I-3: Procedure for Receiving and Notifying MDEQ of Illicit Discharges and Actions Taken	S	√
I-4: Report Updates and Changes to Legal Authority Status	S*	
I-5: Map Known Outfalls (statewide)	S*	√
C-1: Maintenance Requirements for MDOT BMPs	S	√
C-2: Identify and Coordinate with MPOs Having a SWMP	S	√
C-3: Procedure to Select and Apply Best Management Practices (BMP)s for Storm Water Management Activities (Post-Const.)	S	√
C-4: Procedure to Work with MDEQ for Early Coordination on Initial Design Projects	S*	√
C-5: Review Projects with Storm Water Discharges to Water Bodies with a Promulgated Total Maximum Daily Load	S*	√
C-6: Implement Procedures to Select and Apply Best Management Practices for Storm Water Management Activities (Post-Const.)	S	√
C-7: Internal Quality Assurance/Quality Control (QA/QC) Protocol for Construction Storm Water Control	S*	√
C-8: Periodically Update Drainage Manual	S*	
C-9: Documentation and Tracking of Road Maintenance Activities	S	√
C-10: Procedure for Outfall Labeling	UA*	√
C-11: Review Flow Control Structures	UA	√
C-12: Audit the Pollution Incident Prevention Plan (PIPP) Requirements	S	√
A-1: Program Assessment and Reporting	S	√

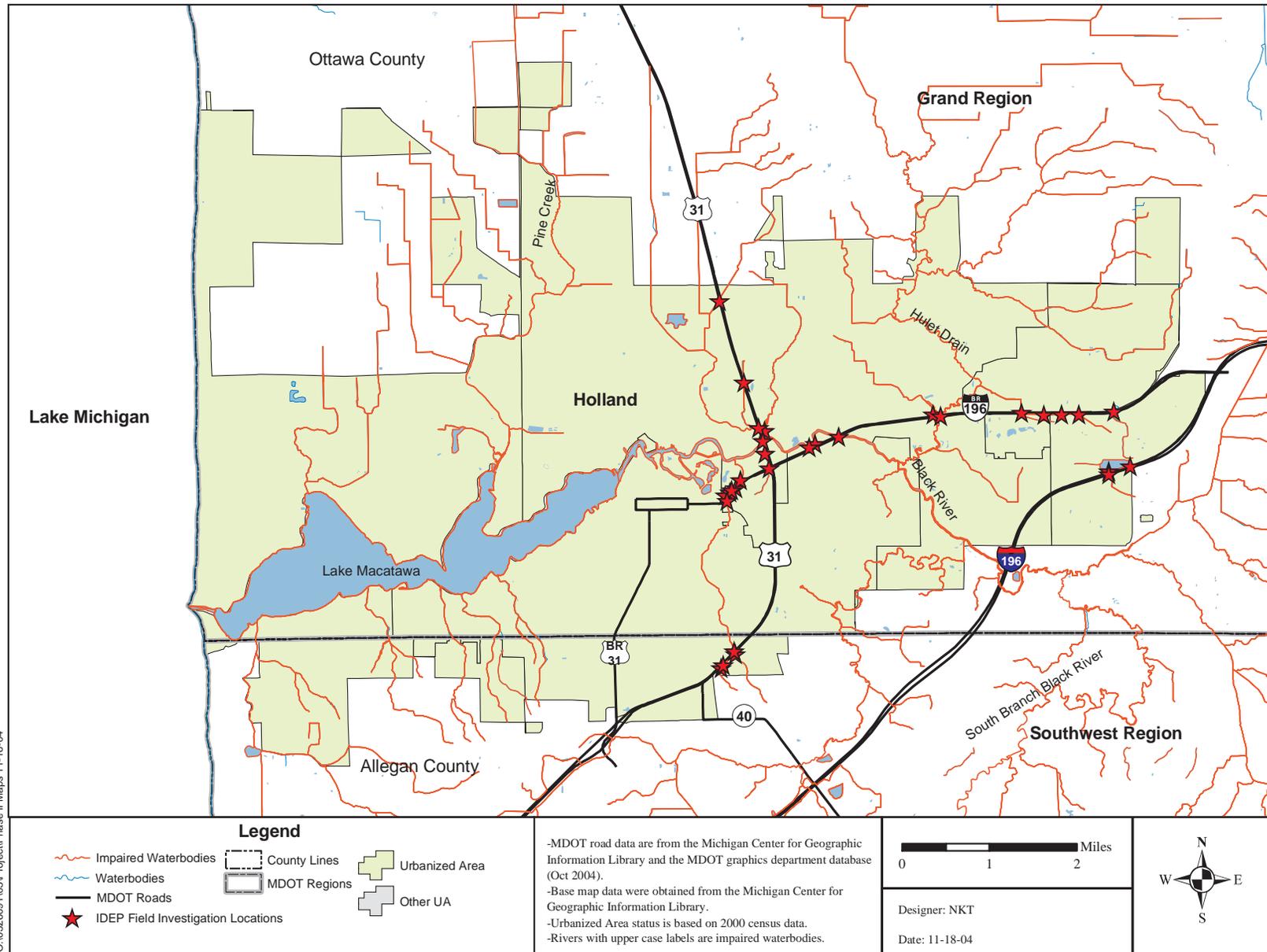
* Indicates initial activity implementation is performed by others but Region will be affected.

Figure 5-2 Grand Rapids Urbanized Area IDEP Investigation Locations



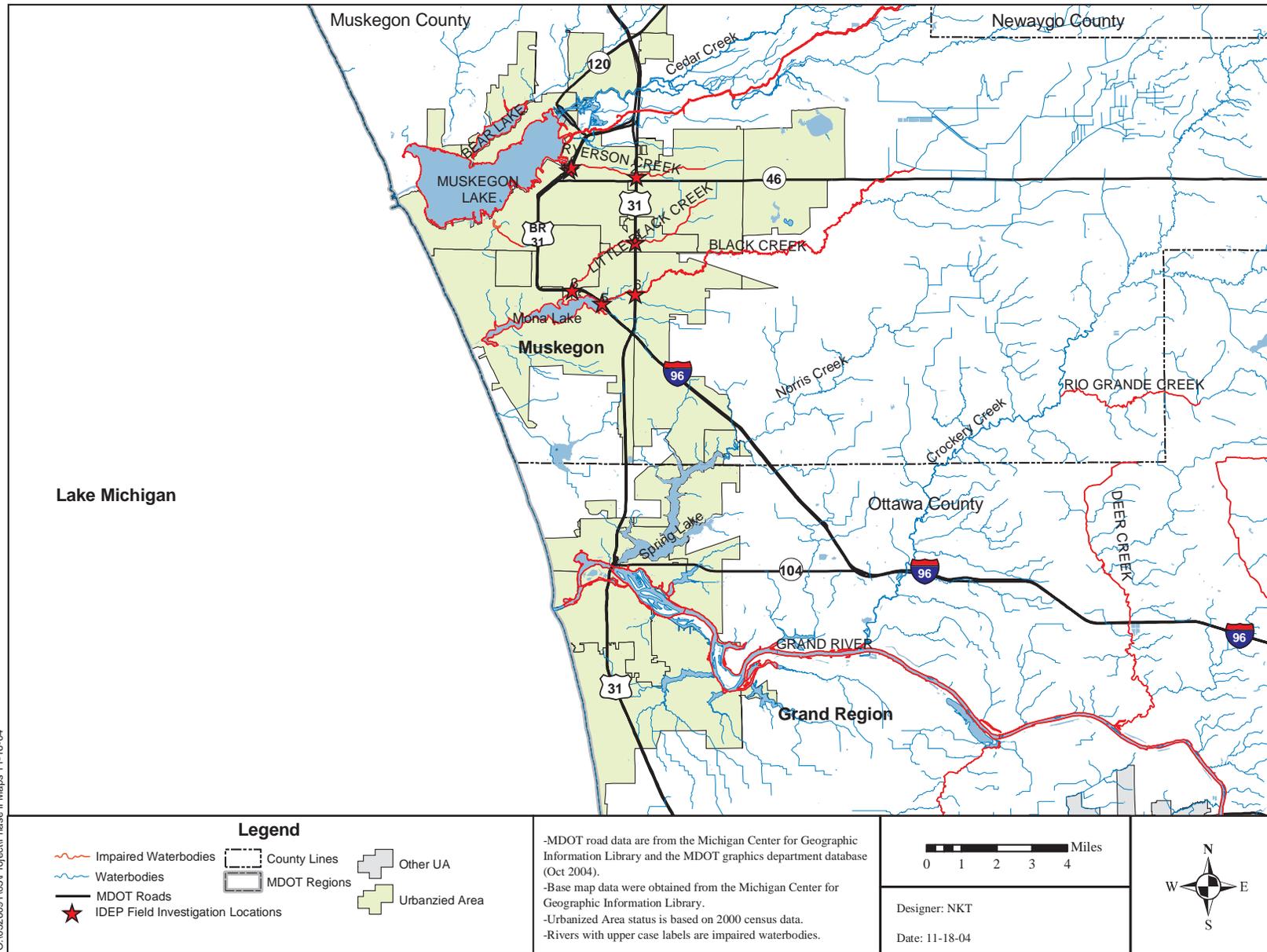
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Figure 5-3 Holland Urbanized Area IDEP Investigation Locations



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Figure 5-4 Muskegon Urbanized Area IDEP Investigation Locations



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