

City of Valparaiso

Stormwater Quality Management Plan

Part C

Program Implementation Report

327 IAC 15-13-8

Update

October 26, 2010

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Section One

Executed Certification Forms

- A. Part C Program Implementation Certification Checklists **Form 51280**
- B. Public Education and Outreach **Form 51279**
- C. Public Participation and Involvement **Form 51273**
- D. Illicit Discharge Detection and Elimination **Form 51271**
- E. Construction Site Stormwater Run-Off Control **Form 51272**
- F. Postconstruction Stormwater Run-Off Control **Form 51274**
- G. Municipal Operations Pollution Prevention and Good Housekeeping
Form 51281

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Section Two

Current Stormwater Program

A. Existing Activities that Address Elements within MCMs (Minimum Control Measures)

1. Public Education and Outreach MCM

The City of Valparaiso has entered into a memorandum of understanding with Northwestern Indiana Regional Plan Commission (NIRPC) to perform the requirements of Stormwater Quality Management Plan Public Education and Outreach. Legal Agreement for Sharing Program Responsibilities between NIRPC and City of Valparaiso is attached as Appendix A.

2. Public Participation and Involvement MCM

The City of Valparaiso has entered into a memorandum of understanding with Northwestern Indiana Regional Plan Commission (NIRPC) to perform the requirements of Stormwater Quality Management Plan Public Participation and Involvement. Legal Agreement for Sharing Program Responsibilities between NIRPC and City of Valparaiso is attached as Appendix A.

3. Illicit Discharge Detection and Elimination MCM

The City of Valparaiso currently depends on its citizens, engineering department, public works department, utilities department, and all city departments to report illicit discharges and remediate the problem immediately. The following shows the existing activities addressing the issues within this minimum control measure.

3.1 Illicit Discharge and Connection Stormwater Ordinance

The City of Valparaiso's *Illicit Discharge and Connection Stormwater Ordinance* was adopted by Valparaiso's City Council on September 11, 2006, as Ordinance No. 40-2006 - An ordinance creating Chapter 54 in the Municipal

Code of the City of Valparaiso, addressing illicit/illegal discharges and/or connections to storm drainage system. The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of the City of Valparaiso, Indiana through the regulation of non-storm water discharges to the storm drainage system to the maximum extent practicable as required by federal and state law. This ordinance establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are: (1) to regulate the contribution of pollutants to the MS4 by stormwater discharges by any user; (2) to prohibit illicit connections and discharges to the MS4; (3) to establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance.

A copy of the City's Illicit Discharge and Connection Stormwater Ordinance is attached as Appendix B1.

3.2 Monitoring of the City's receiving water

Since 2004, the Valparaiso University and City of Valparaiso Water Reclamation Department have been conducting annual biological monitoring and chemical monitoring, respectively, of the City of Valparaiso's receiving waters for the City's MS4 Program. The monitoring is conducted in the fall (usually at the last week of October and the first week of November), at six (by VWRD)/five points (by VU) immediately upstream and downstream of where our creeks enter and leave the City. In addition to provide regular water quality conditions, this program can aid to detect illicit discharges.

3.3 Mapping

During the initial permit cycle, the City of Valparaiso developed a stormwater base map showing around 95% of outfalls and 85% of MS4 conveyances. During the current period, information is being reviewed and the rest of the outfalls and MS4 conveyances will be mapped. Mapping of the pervious and impervious surfaces is in process to be completed.

3.4 Training workshops

City personnel/Engineering Department personnel are attending available training sessions in order to learn more about Illicit Discharge Detection and Elimination.

4. Construction Site Stormwater Run-off Control MCM

4.1 Erosion Control on Sites with Land Disturbing Activities Ordinance

The City of Valparaiso currently has in place an ordinance for *Erosion Control on Sites with Land Disturbing Activities*. This ordinance provides for the administration, enforcement, and amendment of this ordinance for controlling soil erosion within the City of Valparaiso, Indiana. The objective of this ordinance is the control of wind borne and/or water borne soil erosion and the resulting sedimentation that is accelerated by land disturbing activities in the City of Valparaiso. Measures taken to control erosion and sedimentation should assure that sediment is not transported to improper locations by wind or water. The intent of this ordinance is to require practices that will control soil erosion and thereby minimize the amount of soil and sediment leaving sites where the vegetative cover has been disturbed. The ordinance applies to land disturbing activities including those associated with agricultural, commercial, industrial, institutional, residential and highway development.

A copy of the City's Erosion Control on Sites with Land Disturbing Activities Ordinance is attached as Appendix B2.

4.2 Construction / land disturbance stormwater permitting

All construction sites within the City MS4 limits are looked at for stormwater quality and erosion/sediment control. Sites that are one acre or larger are required to submit for a Rule 5 permit. City of Valparaiso Engineering Department personnel reviews the erosion control plan, and issue Rule 5 permits for private developments. The erosion control plan of the projects owned and operated by the City of Valparaiso is reviewed by the Porter County Soil and Water Conservation District (SWCD).

4.3 Construction sites inspection

All new construction sites are inspected and areas with erosion control problems are reinspected on an “as needed” basis. Areas of concern are inspected on a minimum weekly basis, and after rain events. Written warnings, fines, and stop work orders have been issued for non compliance and developers given a time line for compliance.

4.4 Training workshops

City personnel/Engineering Department personnel are attending available training sessions in order to learn more about construction site inspection, enforcement procedures, and protocols.

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

5.1 Floodplain Management and Stormwater Runoff Control Ordinance

The City Council updated on July 14, 2008 its *Floodplain Management and Stormwater Runoff Control Ordinance* (ordinance number 26-2008), an ordinance creating Chapter 55 in the Municipal Code of the City of Valparaiso, to incorporate revisions requested by IDNR to be in compliance with the National Flood Insurance Program. The purpose of the Floodplain Management chapter of the ordinance is “*to promote the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to: (1) restrict or prohibit uses which are dangerous to health, safety, and property due to water or erosion hazards, which result in damaging increases in erosion or in flood heights or velocities; (2) require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction; (3) control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters; (4) control filling, grading, dredging, and other development which may increase erosion or flood damage; (5) prevent or regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands; and (6) make federally subsidized flood insurance available for structures and their*

contents in the city by fulfilling the requirements of the National Flood Insurance Program.”

The purpose of the Stormwater Runoff Control subchapter of the ordinance is to provide for the adequate control of stormwater runoff so that certain natural resources are preserved and the quality of the water and the health, safety, and welfare of the residents is not compromised. The ordinance states that *“Any new development, or construction, addition or renovation requiring a building permit from the city, shall provide stormwater runoff controls as provided herein. Appropriate reference shall be made to the latest revision of the Specifications and Standards for Acceptance of Municipal Improvements for specific requirements.”* From the ordinance, *“drainage plans are required for all activities covered under this chapter. All drainage plans must be approved by the City Engineer before permits are issued or formal approvals granted. Said approval by the City Engineer shall mean that the plan appears to meet the requirements of the city and shall not be interpreted to provide any guarantee or warranty against damage or inconvenience by flooding or the runoff related problem.”*

A copy of the City’s Floodplain Management and Stormwater Runoff Control Ordinance is attached as Appendix B3.

5.2 Drainage survey and drainage master plan

The City of Valparaiso together with Valparaiso University conducted a city-wide drainage survey in November, 2008, seeking information on problems related to the flooding that occurred in early September, 2008 in the City. The surveys were distributed to approximately 12,000 households along with their City water bills. A total of 1835 households responded the survey. The data from the returned surveys have been analyzed and assembled, by Valparaiso University, into different categories with maps showing the areas that suffered from drainage problems.

Survey results showed that problems are city-wide. Based on the results from this survey, and the past information of the potential projects, 17 projects emerged as the best use of resources to bring maximum impact, and a 10-year drainage master plan is presented for the City of Valparaiso in 2009. These projects will have positive impacts extending well beyond the boundaries of these neighborhoods to the overall watershed. The City has started to work on some of these projects.

5.3 Expand detention basins to increase capacity and to improve water quality

The City of Valparaiso is working on the rehabilitation of the Wall Street detention basin and Thorgren basin to maximize their storage capacity and increase protection against flooding for properties downstream. The City also plans to add plantings in the basins that will filter stormwater and improve water quality before it is released into the storm sewer and eventually into Salt Creek. Construction will begin on Wall Street Basin in 2011. Thorgren Basin will be analyzed for potential alternatives beginning in 2011.

5.4 Construct rain gardens

Since 2004, the City and Valparaiso University have been designing and constructing rain gardens. The City of Valparaiso constructed two rain gardens at its Forest Park Golf Course in 2008, and another two in 2009 at North Calumet-Glendale to Wall Street and Roundabout-West side. Together with the City's Porter County Jail Rain Garden and Water Department Rain Garden, the City of Valparaiso currently has six rain gardens. The Valparaiso University has constructed three rain gardens at the North Loop, South Loop and Tennis Court respectively. Another one is proposed to be completed in the summer 2011 at the engineering addition.

5.5 Training workshops

City personnel/Engineering Department personnel are attending available training sessions in order to learn more about post construction stormwater management minimum control measures.

6. Good Housekeeping and Pollution Prevention MCM

6.1 Stormwater Pollution Prevention Plan (SWPPP)

The City of Valparaiso and Valparaiso University have completed and are using a Stormwater Pollution Prevention and Spill Response plan. This plan has been in place since November of 2009 and is available to employees at all facilities. A copy of the plan is attached as Appendix C.

6.2 Municipal Stormwater Pollution Prevention Training

Stormwater training (Municipal Stormwater Prevention – Everyday Best Management Practices) by Storm Watch and provided to the City by NIRPC was provided to each department within the City and to Valparaiso University in November of 2009. Training will be conducted once a year or as needed.

6.3 Catch basins/intakes cleaning, street sweeping and trash collection

Catch basins and intakes are cleaned and treated every year during the permit cycle and annual volumes collected (yd³) are recorded. All City Streets are swept twice a year on average with additional sweeping on heavily traveled routes when needed; the annual amount of debris picked up from street sweeping is recorded in tons. Trash is collected weekly.

6.4 Leaf collection and brush/yard waste pickup

Valparaiso Public Works Department provides residents with leaves, and curbside brush and yard waste collection. Leaves were picked up during leaf seasons from every neighborhood once a week during the leaf season (totally 6 or 7 times). Residential brush and yard waste (including limbs, brush, bushes, roots, leaves, etc.) collection takes place throughout the week. The leaves, brush and yard waste picked up are taken to the city-owned state-sanctioned composting facility located at 2150 W. Lincolnway, where they are composted to produce the compost and mulch available to residents.

6.5 Training workshops

City personnel/Engineering Department personnel are attending available training sessions in order to learn more about Good Housekeeping and Pollution Prevention Minimum Control Measure.

B. Current Use of Structural and Nonstructural BMPs (Best Management Practices)

Please refer to the document “Stormwater Quality Management Plan Part B-Baseline Characterization Report 327 IAC 15-13-7 Update” submitted together with this document.

**C. Update of SWQMP (Stormwater Quality Management Plan)
Part B – On-going Characterization Report**

Please refer to the document “Stormwater Quality Management Plan Part B-Baseline Characterization Report 327 IAC 15-13-7 Update” submitted together with this document.

Section Three

Stormwater Program for Six Minimum Control Measures

A & B. Public Education and Outreach / Public Participation and Involvement

The Valparaiso MS4 will continue involvement with NIRPC to better educate the public and our youth, and continue the implementation and/or maintain the control measure performance of the BMPs for Public Education and Outreach / Public Participation and Involvement committed in the SWQMP Part C submitted in 2005 for the second permit cycle (from 2008 to 2013).

In addition, the following BMP will be undertaken to broaden the scope of the City's MS4 program and expand public involvement in managing the quality of stormwater runoff within the City of Valparaiso.

BMP: "Report-A-Polluter" program

Timeline for Implementation: Start from September 2010

Measurable Goal: This BMP is also a compliance activity for the Illicit Discharge Detection and Elimination minimum control measure. Beginning September in 2010, the City of Valparaiso together with Valparaiso University will implement a "Report-A-Polluter" program to field complaints from the public on illegal dumping, illicit discharges, poor erosion control practices, and other activities within the City MS4 area that negatively impact stormwater quality. Citizens will have opportunity to submit such complaints through an email hotline. The program will improve public involvement, and will serve as an educational tool to inform the public of hazards associated with illicit discharge and illegal dumping. The associated email will be advertised on the stormwater website, and through the disseminated MS4 educational brochures and water bills.

Reporting and Record Keeping: The Co-Permittees will document the number of complaints received, and document follow up actions taken on all reports. All of this information will be compiled and included in the Co-Permittees annual SWQMP report.

C. Illicit Discharge Detection and Elimination (IDDE)

The Valparaiso MS4 will continue the implementation and/or maintain the control measure performance of the BMPs for Illicit Discharge Detection and Elimination committed in the SWQMP Part C submitted in 2005 for the second permit cycle (from 2008 to 2013). In addition, the following Stormwater Illicit Discharge Detection and Elimination BMPs will be developed and implemented by the City of Valparaiso and Valparaiso University in order to comply with the requirements of this MCM.

BMP 1: Develop an Illicit Discharge Detection and Elimination Plan

Timeline for Implementation: Have the plan in place by March 2011

Measurable Goal: The City of Valparaiso together with Valparaiso University will develop and implement an illicit Discharge Detection and Elimination plan. The plan will identify the methods for detecting, addressing and eliminating the illicit discharges, including illegal dumping, into the MS4 conveyance system. The measurable goal is to have the plan in place and to start to implement the plan by January 2011.

Reporting and Record Keeping: Provide IDEM a copy of plan.

BMP 2: Perform dry weather screening outfall inspections

Timeline for Implementation: Start from year 2011

Measurable Goal: At least annually, each outfall is inspected with additional monitoring on the outfalls in those areas of the City that contain significant industrial facilities as well as those areas of the City that rely upon on-site wastewater treatment (septic systems) will be monitored. Conditions, observations, findings and any actions taken will be documented. Any problem areas found will be further investigated in effort to determine the source of the discharge. A Photo and Inspection log will be created, and findings and resulting action and/or enforcement will be documented.

Reporting and Record Keeping: Provide IDEM the number of outfall screening activities, and the number of the illicit discharge detected.

BMP 3: "Report-A-Polluter" program

This BMP is also a compliance activity for the Public Participation and Involvement minimum control measure. Please refer to this section for more information.

BMP 4: Review City's current Long Term Control Plan (LTCP) for combined sewer overflow (CSO)

Timeline for Implementation: By January 2011, review LTCP to ensure consistency between the LTCP with this MCM.

Reporting and Record Keeping: Illicit discharge detection and elimination activities conducted that fulfill requirements of the LTCP will be included in the Annual Report.

D. Construction Site Stormwater Run-off Control

The Valparaiso MS4 will continue the implementation and/or maintain the control measure performance of the BMPs for Construction Site Stormwater Run-off Control committed in the SWQMP Part C submitted in 2005 for the second permit cycle (from 2008 to 2013).

E. Post Construction Stormwater Run-off Control

The Valparaiso MS4 will continue the implementation and/or maintain the control measure performance of the BMPs for post-construction stormwater run-off control committed in the SWQMP Part C submitted in 2005 for the second permit cycle (from 2008 to 2013).

F. Good Housekeeping and Pollution Prevention

The Valparaiso MS4 will continue the implementation and/or maintain the control measure performance of the BMPs for Good Housekeeping and Pollution Prevention committed in the SWQMP Part C submitted in 2005 for the second permit cycle (from 2008 to 2013).

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Section Four

Narrative and Mapped Description of the MS4 Boundaries

A. Narrative description of the boundary of the MS4 regulated area.

The City of Valparaiso is in the northern half of Porter County, northwest Indiana, located in sections 5 - 8, 17- 20, 29 - 33 of Township 35 North, Range 5 West and in sections 1, 9 - 15, 21 - 27 of Township 35 North, Range 6 West. The City's total land is approximately 15.61 square miles. The City's population is currently approximately 30,400. A map of MS4 area boundaries is shown in Appendix D.

B. Estimate of linear feet of MS4 system and documentation of the method of estimation.

Combined Sewers – approximately 140,000 linear feet

MS4 system – approximately 394,900 linear feet of pipes and 63,700 linear feet of ditches and streams.

The estimations for linear footage of combined sewers and overall MS4 system are based on collected field measurements and CAD (Computer Aided Drafting) mapped system.

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Section Five

Narrative Summary of Allowed Structural BMP Types for New and Redevelopment

A. Narrative discussion of overall structural BMP approach.

Currently, the City of Valparaiso has a list of allowed BMPs as shown below for the post-construction stormwater management in new development and redevelopment in the City MS4 area. It is encouraged to use any BMPs listed on the U.S.EPA website. All the alternative BMPs submitted for projects will be reviewed on a case by case basis and decided upon through engineering judgment.

List of Allowed Structural BMPs

1. Catch Basins
2. Curb/Gutter
3. Detention Basins
4. Inlets
5. Inlet filters
6. Rain Gardens
7. Rain Store Detention
8. Roadside Swales
9. Sediments Traps
10. Silt Fence
11. Storm Sewers

In addition, the City of Valparaiso's *Drainage Ordinance and Specifications and Standards for Acceptance of Municipal Improvements* disallow discharge from surface or subsurface drains including sump pumps, footing drains, downspout drains, or similar drains (as determined by the office of the City Engineering Director or the Board of Public Works and Safety) from being within ten feet of a public street right-of-way line and that the location and configuration of downspouts and/or sump pump discharges shall be such that the runoff does

not damage or inconvenience adjacent properties. These stipulations are aimed at improving drainage conditions and water quality by having the water drain over a vegetated area that will allow for filtration of pollutants and infiltration of water into the ground.

B. Description of Structural BMPs Selection Criteria and Performance Standards

There is no change in this section.

Section Six

Programmatic Indicators for MCMs

The following represents the list of programmatic indicators that are referenced in 327 IAC 15-13-8(b). Those that are checked will be used during the permit period. In addition, other indicators are added at the bottom of the list.

1. Number or percentage of citizens, segregated by type of constituent as referenced in section 327 IAC 15-13-12(a) of Rule 13, that have an awareness of stormwater quality issues.	<input checked="" type="checkbox"/>
2. Number and description of meetings, training sessions, and events conducted to involve citizen constituents in the stormwater program.	<input checked="" type="checkbox"/>
3. Number or percentage of citizen constituents that participate in stormwater quality improvement programs.	<input type="checkbox"/>
4. Number and location of storm drains marked or cast, segregated by marking method.	<input checked="" type="checkbox"/>
5. Estimated or actual linear feet or percentage of MS4 mapped and indicated on an MS4 area map.	<input checked="" type="checkbox"/>
6. Number and location of MS4 area outfalls mapped.	<input checked="" type="checkbox"/>
7. Number and location of MS4 area outfalls screened for illicit discharges.	<input checked="" type="checkbox"/>
8. Number and location of illicit discharges detected.	<input checked="" type="checkbox"/>
9. Number and location of illicit discharges eliminated.	<input checked="" type="checkbox"/>
10. Number of, and estimated or actual amount of material, segregated by type, collected from Household Hazardous Waste collections in the area.	<input checked="" type="checkbox"/>
11. Number and location of constituent drop-off centers for automotive fluid recycling.	<input checked="" type="checkbox"/>
12. Number or percentage of constituents that participate in the HHW Collection program.	<input checked="" type="checkbox"/>
13. Number of construction sites obtaining an MS4 entity-issued stormwater run-off permit in the MS4 area.	<input checked="" type="checkbox"/>
14. Number of construction sites inspected.	<input checked="" type="checkbox"/>
15. Number and type of enforcement actions taken against construction site operators.	<input checked="" type="checkbox"/>
16. Number of, and associated construction site name and location for, public information requests received.	<input checked="" type="checkbox"/>
17. Number, type and location of structural BMPs installed.	<input checked="" type="checkbox"/>

18. Number, type and location of structural BMPs inspected.	<input checked="" type="checkbox"/>
19. Number, type and location of structural BMPs maintained or improved to function properly.	<input checked="" type="checkbox"/>
20. Type and location of nonstructural BMPs utilized.	<input checked="" type="checkbox"/>
21. Estimated or actual acreage or square footage of open space preserved and mapped in the MS4 area, if applicable.	<input checked="" type="checkbox"/>
22. Estimated or actual acreage or square footage of pervious and impervious surfaces mapped in the MS4 area, if applicable.	<input checked="" type="checkbox"/>
23. Number and location of new retail gasoline outlets or municipal, state, federal or institutional refueling areas, or outlets or refueling areas that replaced existing tank systems that have installed stormwater BMPs.	<input checked="" type="checkbox"/>
24. Number and location of MS4 entity facilities that have containment for accidental releases of stored polluting materials.	<input checked="" type="checkbox"/>
25. Estimated or actual acreage or square footage, amount, and location where pesticides and fertilizers are applied by a regulated MS4 entity to places where stormwater may be exposed within the MS4 area.	<input checked="" type="checkbox"/>
26. Estimated or actual linear feet or percentage and location of unvegetated swales and ditches that have an appropriately sized vegetated filter strip.	<input checked="" type="checkbox"/>
27. Estimated or actual linear feet or percentage and location of MS4 conveyances cleaned or repaired.	<input checked="" type="checkbox"/>
28. Estimated or actual linear feet or percentage and location of roadside shoulders and ditches stabilized, if applicable.	<input checked="" type="checkbox"/>
29. Number and location of stormwater outfall areas remediated from scouring conditions, if applicable.	<input checked="" type="checkbox"/>
30. Number and location of de-icing salt and sand storage areas covered or otherwise improved to minimize stormwater exposure.	<input checked="" type="checkbox"/>
31. Estimated or actual amount, in tons, of salt and sand used for snow and ice control.	<input checked="" type="checkbox"/>
32. Estimated or actual amount of material by weight collected from catch basin, trash rack, or other structural BMP cleaning.	<input checked="" type="checkbox"/>
33. Estimated or actual amount of material by weight collected from street sweeping, if utilized.	<input checked="" type="checkbox"/>

Section Seven

Estimated Budget and Funding Source

A. Summary of the Estimated Program Budget for Five-Year Permit Period

The Valparaiso City Utilities Board (VCUB) has set aside \$60,000 to use annually from 2010 to 2014 for Rule 13.

NIRPC is providing the requirements for Public Education/Outreach and Public Involvement/Participation for the City. The cost for 2010 and 2011 for NIRPC's services is \$9,357.00 based on a 2000 population of 27,428. In 2012, the annual cost will be recalculated based on the results of the 2010 Census population numbers.

The Valparaiso City Utilities Board is also spending \$33,121.94 annually from 2010 to 2014 for the purchase of a new streetsweeper. The remainder of the \$60,000 annual phase II budget will be split among the other 4 MCMs on an as-needed basis. The budget is attached as Appendix E.

The Valparaiso City Utilities Board also funds construction projects repairing or stabilizing stream, repairing areas from outfall scouring, improving the detention basins, and funding sewer separation projects, etc.

B. Identification of Funding Source for Permit Implementation

There is no change in this section.

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List of Appendices

Appendix A: Documentation of Legal Agreements between the Northwestern Indiana Regional Planning Commission and City of Valparaiso

Appendix B: City of Valparaiso's ordinances

B1. Illicit Discharge and Connection Stormwater Ordinance

B2. Erosion Control on Sites with Land Disturbing Activities Ordinance

B3. Floodplain Management and Stormwater Runoff Control Ordinance

Appendix C: City of Valparaiso Stormwater Pollution Prevention and Spill Response Plan

Appendix D: Map of MS4 Boundaries

Appendix E: Five-Year Program Budget

**Appendix A: Legal Agreement for Sharing Program Responsibilities
between the Northwestern Indiana Regional Planning Commission
and City of Valparaiso**

See the attached file.

Appendix B: City of Valparaiso's ordinances

B1. Illicit Discharge and Connection Stormwater Ordinance

B2. Erosion Control on Sites with Land Disturbing Activities Ordinance

B3. Floodplain Management and Stormwater Runoff Control Ordinance

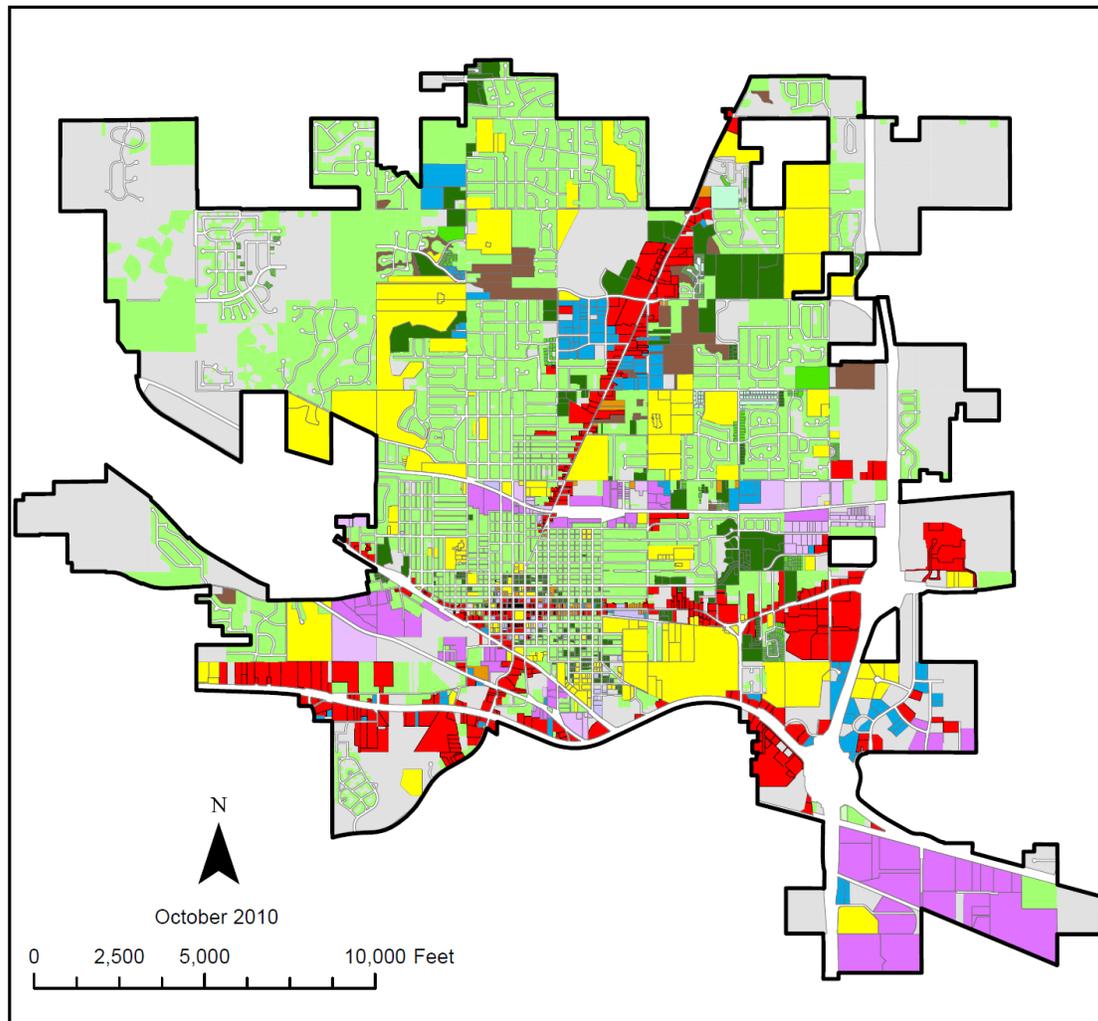
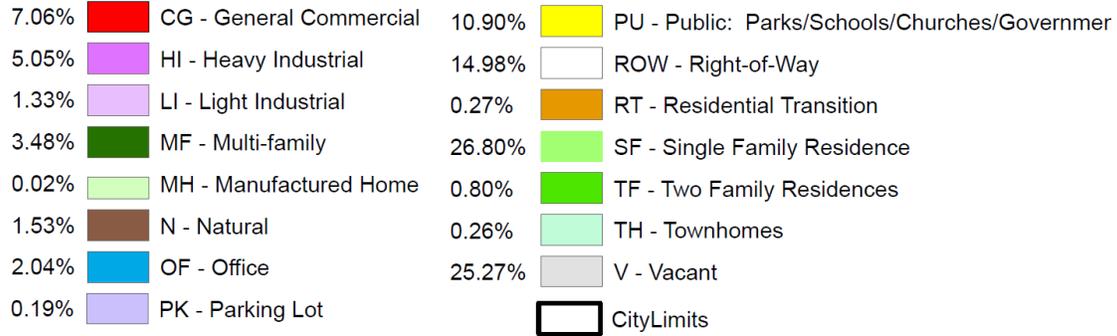
See the attached files.

Appendix C: City of Valparaiso Stormwater Pollution Prevention and Spill Response Plan

See the attached file.

Appendix D: Map of MS4 area boundaries

The total land of the City of Valparaiso is approximately 15.61 square miles.



Appendix E: Five-Year Program Budget

ANNUAL RULE 13 (PHASE II) BUDGET: \$60,000.00

#	Minimum Control Measures	2010 Budgeted Amount (\$)	2011 Budgeted Amount (\$)	2012 Budgeted Amount (\$)	2013 Budgeted Amount (\$)	2014 Budgeted Amount (\$)
1	Public Education and Outreach*	5,500.00 (4,678.50 to NIRPC)				
2	Public Involvement/ Participation*	5,500.00 (4,678.50 to NIRPC)				
3	Illicit Discharge Detection and Elimination	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
4	Construction Site Stormwater Run-off Control	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
5	Post-Construction Water Management in New Development and Redevelopment	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
6	Pollution Prevention/Good Housekeeping for Municipal Operations**	34,000.00 (33,121.94 to Streetsweeper)				
TOTALS		60,000.00	60,000.00	60,000.00	60,000.00	60,000.00

* \$9,357.00 is paid to NIRPC in year 2010 and 2011 of the permit for Public Education and Outreach and Public Involvement/Participation based on a 2000 population of 27,428. From 2012 to 2014, the annual cost will be recalculated based on the results of the 2010 Census population numbers.

** \$33,121.94 is used annually for Pollution Prevention/Good Housekeeping for Municipal Operations to pay for the cost of a new street sweeper

