RULE 13 ANNUAL REPORT

State Form 51278 (R5 / 4-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:
IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
MC 65-42
Indianapolis, IN 46204-2251
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)
Web Access:
http://www.in.gov/idem (Search for Stormwater)

NOTE:

- In order to comply with 327 IAC 15-13-18, annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit this form will be considered noncompliance with your permit.**
- For the **first five** (5)-year permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
- In the **second and subsequent** five (5)-year permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage, by 1 and 3 years from the SWQMP – Part C resubmittal date.
- **Please type or print in ink.**
- Please answer all questions thoroughly and return the form by the due date.
- Return this form and any required addenda to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

REPORTING YEAR (Check one)

- ☐ 2005
- ☐ 2006
- ☐ 2007
- ☒ 2008 (partial)
- ☒ 2009
- ☒ 2010 (partial)
- ☐ 2011
- ☐ 2012
- ☐ 2013

PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Report Completed By: Mingyan Zhou
(MS4 Operator — i.e., name of permit holder)

2. Permit Number: **INR 0 4 0 0 7 3**

3. Mailing Address

Street Address: 166 Lincolnway

☒City ☐Town	**Of:** Valparaiso	Zip: 46383	County: Porter

PART B: GENERAL INFORMATION – CONTACT PERSON

4. Contact Person Name (please print): Mingyan Zhou

5. Contact Person Title: MS4 Operator

6. Phone Number: (219) 462-1161

7. Facsimile Number (if applicable): (219) 464-4273

8. E-mail Address (if applicable): mzhou@valpo.us

PART C: CONTROL MEASURE ACTIVITIES

9. For the following items, please provide a summary of control measure activities related to Rule 13 performed during the previous year.
List any updated measurable goals from the SWQMP, compliance activities, BMPs installed or initiated, updated programmatic indicator data, and updated or developed regulatory mechanisms with effective dates.

a. Public Education and Outreach

The City of Valparaiso has entered into a memorandum of understanding with NIRPC to perform the requirements of Stormwater Quality Management Plan Public Education and Outreach. NIRPC's Rule 13 report for 2009 and 2010 is attached. Please refer to this document for activities involving Stormwater Quality Management Plan Public Education and Outreach.

In addition to Valparaiso's contract with NIRPC, the City and its co-permittee Valparaiso University have conducted the following work for public education and outreach.

BMP: Disseminate to public the stormwater educational materials received from NIRPC
Measurable goal: Number of materials distributed to public
Status and comments: The City of Valparaiso distributed the following MS4 educational materials received from NIRPC: 100 "Every drop counts stress ball" and 120 "Clean Water Calendar" at the Popcorn Festival on 9/12/2009 by Cathy Luther; 100 "Rain Drop" rain gauges, 400 "It All Adds Up to a Cleaner World" pens, 200 "A Citizen's Guide to the MS4 Program" , 100 "Watershed Protection" Children's Activity Books, 100 "Discover Storm Water" Children's Activity Books, 100 "After the Storm" brochures, 100 "4 Simple Steps to Clean Water" brochures at the Popcorn Festival on 9/11/2010 by City's MS4 operator. In addition, Matt Kras attended Earth Day Celebration at Sunset Hill Park on 4/18/2009 from 10:30am-12:00pm, and gave away the following brochures: "A Citizen's Guide to the MS4 Program", "Erosion and Sediment Field Guide to Best Management Practices", "Wetlands".

BMP: Educate students at Valparaiso University on stormwater issues and management, and the quality of City's receiving waters
Measurable goal: Number of classes conducted or number of students educated
Status and comments: The Valparaiso University offered the following classes to educate its students on stormwater and City's receiving water quality issues.

- Ecology course (BIO 440) does two weeks of monitoring on Salt Creek within the city limits. The class looks at macroinvertebrate diversity at five sites and has been doing this for the past four years.
- Science of the Indiana Dunes' general education course (NS 102) addresses stormwater, and this past spring had three labs devoted to stormwater issues and management. This serves non-science majors on campus.
- Human Environmental Biology course (BIO 250) includes stormwater issues but there is no lab in this course.
- Courses in Natural Science (Grayson Davis), Geography/Meteorology (Mike Longan), Environmental Science (Ken Luther), and engineering (Zuhdi AlJobeh) all include stormwater issues.
- The Biology Club is very active in stream restoration. In the past they have participated in public presentations about stream health. Grayson Davis had a grant from the Indiana Coastal Program and for part of that project, he used the Biology Colloquium speakers series to promote stream management with public talks about stormwater issues.
- The EarthTones environmental club on campus has also done campus outreach about stormwater with some of its Earth Week activities and promotion of rain gardens on campus.

BMP: Promote Rain Gardens
Measurable goal: Number of rain gardens constructed and number of people educated
Status and comments: The City and Valparaiso University have constructed nine rain gardens (some were constructed partnering with Save the Dunes Conservation Fund). Flyers and signs were provided to the public with information on how rain gardens work and why they are a viable option for reducing ponding and poor drainage.

BMP: Install roadside watershed and informational signs
Measurable goal: number of signs installed in the City of Valparaiso MS4 area
Status and comments: The City of Valparaiso partnering with Save the Dunes Conservation Fund has installed 4 Watershed signs and 2 informational signs along the watershed boundary in the City MS4 area. It is proposed to put up more signs in 2011.

b. Public Involvement and Participation:

The City of Valparaiso has entered into a memorandum of understanding with NIRPC to perform the requirements of Stormwater Quality Management Plan Public Involvement and Participation. NIRPC's Rule 13 report for 2009 and 2010 is attached. Please refer to this document for activities involving Stormwater Quality Management Plan Public Involvement and Participation.

In addition to Valparaiso's contract with NIRPC, the City has conducted the following activities to increase public awareness, involvement and participation to stormwater quality management.

BMP: Survey City's public for stormwater caused flooding in the City MS4 area
Measurable goal: Complete the survey and data analysis, start to work on projects emerged from survey results
Status and comments: The City of Valparaiso together with Valparaiso University conducted a city-wide drainage survey in November, 2008, and analyzed on problems related to the flooding that occurred in early September, 2008 in the City. Based on the survey results, 17 projects emerged as the best use of resources to bring maximum impact. These projects will have positive impacts extending well beyond the boundaries of these neighborhoods to the overall watershed. Based on the results from this survey, and the past information of the potential projects, a 10-year drainage master plan was presented for the City of Valparaiso in 2009. The City has started to work on some of these projects.

BMP: Distribute rain barrels
Measurable goal: Number of rain barrels distributed
Status and comments: On August 13, 2008, the City of Valparaiso partnering with Save the Dunes Conservation Fund hosted a workshop to show the effects and benefits of using Rain Barrels, and provide rain barrels at a reduced cost to workshop attendees. Valparaiso City Utilities donated $5,000 to this program. Over 300 rain barrels were distributed to residents living in the Salt Creek Watershed. Mr. Matt Kras helped distributed rain barrels from 5:30pm to 7:30pm.

BMP: Attend stormwater quality training workshops and seminars
Measurable goal: Number of training workshops and seminars attended and number of City personnel trained
Status and comments: City personnel/Engineering Department personnel are attending available training sessions in order to learn more about stormwater quality management and BMPs. The following are the examples of training workshops attended:

- 4-15-09 Matt Kras attended MS4 Permit Evaluation Compliance Assistance Workshop hosted by Reggie Korthals (IDEM) at Gary Sanitary District.
- 4-18-09 Earth Day Celebration at Sunset Hill Park from 10:30am-12:00pm. Gave away brochures: "A Citizen's Guide to the MS4 Program", "Erosion and Sediment Field Guide to Best Management Practices", "Wetlands".
- 4-20-09 Held Input Public Meeting regarding the City's Drainage Master Plan at 7pm, City Hall Council Chambers.
- 4-29-09 Matt Kras attended MS4 Partnership meeting at NIRPC.
- 7-21-09 Matt Kras attended "Rain Garden and Rain Barrel Workshop" from 4:00pm-6:00pm, at Legacy 1356 Lincolnway, Valparaiso.

c. Illicit Discharge Detection and Elimination:

BMP: Implementation of Illicit Discharge and Connection Stormwater Ordinance
Measurable Goal: Continued application of the ordinance
Status and Comments: The City of Valparaiso currently has in place the Illicit Discharge Detection and Connection Stormwater Ordinance. This ordinance was approved by Valparaiso's City Council on September 11, 2006, as Ordinance No. 40-2006. This ordinance created Chapter 54 in the Municipal Code of the City of Valparaiso, and addressed illicit/illegal discharges and/or connections to storm drainage system. This ordinance provides 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 MS4 in order to comply with requirements of the 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 conveyance; (3) to establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance.

Illicit discharges by our collections department have been disconnected on an "as found" basis or from citizens reporting the connections.

BMP: Green Acres Smoke Testing
Measurable Goal: Detect and disconnect the illicit connections to the City's sewer system in Green Acres area
Status and Comments: Valparaiso City Utilities (VCU) conducted a sanitary sewer system smoke testing for the sanitary sewers located within the Green Acres service area from June 23 through July 9, 2008 to look for illegal connections to the sanitary sewers that caused sewer backups. The smoke testing analyzed approximately 50,000 feet of sanitary sewer that covers the watershed as far north towards Spectacle Drive, east to Bloomingdale, south to Bullseye Lake Road; and west to Campbell. Forty-seven thousand four hundred eighty-nine (47,489) feet of sewer system was smoke tested during the program. The smoke testing indentified 115 infraction points, including 104 public (caused by improper manhole lids and/or damaged structures) and 11 private (cleanouts, yard drains, sumps) ones. The city is working on disconnecting the illicit connections, and rehabilitating of the infrastructures. The project is proposed to complete in 2011.

BMP: Monitoring of the City's receiving water
Measureable Goal: Provide regular water quality conditions and check for the maintenance or improvement of the receiving water
Status and Comments: 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 at six points immediately upstream and downstream of where the City' receiving creeks enter and leave the City. In addition to provide regular water quality conditions, this program can aid to detecting illicit discharges. The project is ongoing.

BMP: Mapping
Measurable Goal 1: Percentage of outfalls and MS4 conveyances mapped
Measurable Goal 2: Estimated acreage of square footage of mapped pervious and impervious surfaces
Status and Comments: 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 under contract now, and is in process to be completed.

BMP: Outfall screening
Measureable Goal 1: Number and location of MS4 area outfalls screened for illicit discharges
Measureable Goal 2: Number and location of illicit discharges detected and eliminated
Status and Comments: All outfalls were visually screened when they were found and mapped. No illicit discharges from outfalls were detected.

BMP: Attend Illicit Discharge Detection and Elimination training workshops and seminars
Measurable goal: Number of training workshops and seminars attended, and number of City personnel trained
Status and comments: City personnel/Engineering Department personnel are attending available training sessions in order to learn more about Illicit Discharge Detection and Elimination. The following is the training workshop attended:

- 6-28-10 David Pilz attended "Illicit Discharge Detection and Elimination" 8:00 am-3:00 pm, NIRPC, 6100 Southport Road, Portage, IN 46368.

d. Construction Site Stormwater Run-off Control:

BMP: Implementation of the Erosion Controls on Sites with Land Disturbing Activities Ordinance
Measurable Goal: Continued application of the ordinance
Status and Comments: The City of Valparaiso currently has in place an ordinance for Erosion Controls 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.

All erosion control measures, including, but not limited to those required to comply with this ordinance, shall meet the design criteria, standards and specifications as adopted by the Board and those listed in the "Indiana Handbook for Erosion Control in Developing Areas".

An erosion control plan shall be submitted with each application for an Erosion Control Permit. The Board shall have the authority to waive any of the requirements for the plan.

All erosion control measures shall be maintained throughout the course of the construction or until the growth of vegetation has made them unnecessary. If silt fence is temporarily removed to allow access to a portion of the site it shall be re-installed at the end of the workday. The applicant is responsible for the maintenance of all erosion control measures.

BMP: Construction/land disturbance stormwater permitting
Measurable Goal: Number of construction sites permitted for stormwater quality
Status and Comments: All new construction on commercial or industrial sites and all construction sites of 1 acre or more are looked at for stormwater quality and erosion/sediment control. From 2008 to current, the City of Valparaiso had 40 private developments that needed Rule 5 permits.

BMP: Construction sites inspection
Measurable Goal: Number of warnings and/or fines levied to applicants of the erosion control permit for construction sites within Valparaiso
Status and Comments: 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. Fines and warnings are issued on construction sites on an “as needed” basis. From July 1st, 2008 to December 31st, 2008, 59 warnings were sent out and 23 fines with a total of $3,400 were levied for erosion control violations. For full 2009 year, 52 warnings were given and 6 fines with a total of $900 were levied. From January 1st 2010 to June 30th 2010, 52 warnings were sent out.

BMP: Attend construction site stormwater run-off control training sessions and workshops
Measurable goal: number of training sessions and workshops attended, and number of City personnel trained
Status and comments: City personnel/Engineering Department personnel are attending available training sessions in order to learn more about construction site inspection, enforcement procedures, and protocols.

- 6-24-09 Nate McGinley and Don McGinley attended “Erosion and Sediment Control Technology Workshop”, 1pm-3 pm, Council Chambers, 101 North East Street, Crown Point, IN.

e. Post-construction Stormwater Management in New Development and Redevelopment:

BMP: Drainage Master Plan
Measurable Goal: Complete the 10-year drainage master plan and start the projects in the plan
Status and Comments: A 10-year drainage master plan which contains 17 projects as the best use of resources to bring maximum impact was presented for the City of Valparaiso in 2009. The plan was based on the survey results of the 2008 stormwater resulted flooding, and the past information of the potential projects. These projects will have positive impacts extending well beyond the boundaries of these neighborhoods to the overall watershed. The City has started working on some of these projects.

BMP: Expand detention basins to increase capacity and to improve water quality
Measureable Goal: Completion of the projects
Status and Comments: 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.

BMP: Construct rain gardens
Measurable goal: Number of rain gardens constructed
Status and comments: 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.

BMP: Silva Cells
Measurable Goal: Number of Silva Cells installed
Status and Comments: The City of Valparaiso partnering with Save the Dunes Conservation Fund installed approximately 141 Silva cells at the NE corner of Indiana Ave. & Lafayette Street in 2010. These cells help to catch and filter stormwater runoff while providing maximum soil volume for tree root growth in the urban environments.

BMP: Tree Initiative
Measurable Goal: Number of trees planted
Status and Comments: The City of Valparaiso partnering with Save the Dunes Conservation Fund has initiated a tree program to identify and plant trees within City right-of-way that will aid in the City's stormwater management. The project is ongoing.

BMP: Install oil/grease separator
Measurable Goal: Number of separators installed
Status and Comments: Valparaiso University has installed an oil/grease separator at the new union during construction in 2007. It became functional when the Union came online in January 2009. V.U. has another oil separator at the northeast parking ramp which was installed during the construction of the parking garage in 2006/2007.

BMP: Attend post-construction stormwater management training workshops
Measurable Goal: Number of workshops attended, and number of City personnel trained
Status and Comments: City personnel/Engineering Department personnel are attending available training sessions in order to learn more about post-construction stormwater management in new development and redevelopment. The following are the examples of training workshops attended:

- 4-20-09 Matt Kras held Input Public Meeting regarding the City's Drainage Master Plan, 7pm, City Hall Council Chambers.
- 6-10-09 Matt Kras attended "Green Infrastructure Web-based Planning Tools Workshop", 8:30am-12:00 pm, Calumet Conference Center – Purdue Calumet.
- 6-19-09 Matt Kras attended "Creating and Maintaining Stormwater Detention Ponds" workshop in Indianapolis – Capitol Conference Center, 201 North Illinios Street.

f. Pollution Prevention and Good Housekeeping for Municipal Operations:

BMP: Development and implementation of the Stormwater Pollution Prevention Plan (SWPPP)
Measurable Goal: Development and implementation of the plan
Status and Comments: The City of Valparaiso and Valparaiso University have completed and are using a Stormwater Pollution Prevention and Spill Response Plan. The spill prevention plan has been in place since November of 2009 and is available to employees at all facilities. A copy of the SWPPP is attached.

BMP: Municipal stormwater pollution prevention training
Measurable Goal: Number of training sessions provided and number of employee trained
Status and Comments: Stormwater training (Municipal Stormwater Pollution Prevention – Everyday Best Management Practices) by Storm Watch and provided to the City by NIRPC was provided to each department within the City of Valparaiso in November of 2009. The training records are attached.

BMP: Catch Basins/Intakes Cleaning, Street Sweeping and Trash Collection
Measurable Goal: Amount of materials removed
Status and Comments: Catch basins and intakes are cleaned and treated every year during the permit cycle and annual volumes collected (yd^3) are recorded; on average all City Streets are swept twice a year with additional sweeping on heavily traveled routes when needed, annual amount of debris collected are recorded in tons; and trash is collected weekly. From 2008 to June 30, 2010, 371.15 cubic yards of debris was collected from catch basins, and 6535.8 tons of debris was picked up with the sweepers.

BMP: Leaf collection during leaf seasons
Measurable Goal: Number of pick-ups provided and amount of leaves picked up
Status and Comments: Leaves were picked up during leaf seasons by Public Works Department from every neighborhood once a week during the leaf season (totally 6 or 7 times). The leaves picked up are taken to the city-owned state-sanctioned composting facility located at 2150 W. Lincolnway, where they are composted produce the compost and mulch available to residents. Together with brush/yard waste (see the following BMP), 4,645 tons and 5,601 tons were picked up in 2008 and 2009, respectively.

BMP: Brush/yard waste pickup
Measurable Goal: Amount of yard waste picked up
Status and Comments: Valparaiso Public Works Department provides residents with curbside brush and yard waste collection. Collection takes place throughout the week. Residential brush and yard waste (including limbs, brush, bushes, roots, leaves, etc.) are accepted. Brush and yard waste picked up by the City is taken to the composting facility. Together with leaves (see the above BMP), 4,645 tons and 5,601 tons were picked up in 2008 and 2009, respectively.

BMP: Valparaiso University: Removal of solids from sanitary and storm systems
Measurable Goal: Amount of materials removed
Status and Comments: The entire university's sanitary and storm systems are cleaned every year to remove solids. Solid debris is taken to the Valparaiso Waste Treatment Area. This cleaning takes place every summer prior to the start of the school year.

BMP: Salt Brine usage in street de-icing
Measurable Goal: A reduction in salt usage in de-icing streets
Status and Comments: The Valparaiso Public Works Department applied 6578.94 tons of salt for street de-icing for 2007, this number decreased to an average of 4213.47 tons for the last 3 years.

BMP: Forest Park Wash Station
Measurable Goal: Completion and application of the Wash Station
Status and Comments: The City of Valparaiso partnering with Save the Dunes Conservation Fund constructed a wash station at Forest Park Golf Course in 2010 to wash off equipments including mowers etc. The wash station is a concrete pad with containment. The pad drains to a lower pad where solids are captured during washing. The liquid continues on to a rain garden where it percolates. The solids (such as grass clippings) are collected and disposed of in the compost pile.

BMP: Attend training workshops and seminars
Measurable Goal: Number of workshops attended
Status and Comments: City personnel/Engineering Department personnel are attending available training sessions in order to learn more about Pollution Prevention and Good Housekeeping for Municipal Operations. The following are the examples of training workshops attended:

- 2008: Municipal Good Housekeeping Training Workshop, NIRPC.

10. List all receiving water(s) and corresponding outfall(s) not submitted in the original NOI letter (form):

The City of Valparaiso will now consider the drain from Flint Lake known as Flint Lake Garden Terrace Drain and with HUC 07120001090060 for the watershed as a receiving water of the City of Valparaiso. This drain flows into the Hutton Ditch downstream. A portion of the watershed containing Flint Lake Garden Terrace Drain was annexed into the City in 2005, and another portion in 2006. The City of Valparaiso will now officially have 5 receiving waters, including: Salt Creek – HUC 04040001050010, Sager Run – HUC 04040001050010, Beauty Creek – HUC 04040001050020, Pepper Creek – HUC 04040001050030, and Flint Lake Garden Terrace Drain – HUC 07120001090060.

The corresponding outfalls for the Flint Lake Garden Terrace Drain include: FLGT-1, FLGT-2, FLGT-3, FLGT-4, FLGT-5, FLGT-6, FLGT-7, and FLGT-8.

11. Provide any data regarding the following programmatic indicators, since the previous annual report (Attach separate sheets as necessary, and indicate, as appropriate, the rationale behind not using a listed indicator):

Per the IDEM Annual Report Submittal Guidance 2010, we do not need to respond to this question. New data regarding the programmatic indicators under the minimum control measures is included in the Part C ITEM 9 in this report.

i. Number or percentage of citizens that have an awareness of storm water quality issues

ii. Number and description of meetings, training sessions, and events conducted to involve citizens

iii. Number or percentage of citizens that participate in storm water quality improvement projects

iv. Number and location of storm drains marked or cast

v. Estimated linear feet or percentage of MS4 conveyances mapped

vi. Number and location of MS4 area outfalls mapped

vii. Number and location of MS4 area outfalls screened for illicit discharges

viii. Number and location of illicit discharges detected

ix. Number and location of illicit discharges eliminated

x. Number of, and amount of material collected from, HHW collections

xi. Number and location of citizen drop-off centers for automotive fluids

xii. Number or percentage of citizens that participate in HHW collections

xiii. Number of construction sites permitted for storm water quality

xiv. Number of construction sites inspected

xv. Number and type of enforcement actions taken against construction site operators

xvi. Number of public informational requests received related to construction sites

xvii. Number, type, and location of structural BMPs installed

xviii. Number, type, and location of structural BMPs inspected

xix. Number, type, and location of structural BMPs maintained, or improved

xx. Type and location of nonstructural BMPs utilized

xxi. Estimated acreage or square footage of open space preserved and mapped

xxii. Estimated acreage or square footage of mapped pervious and impervious surfaces

xxiii. Number and location of retail gasoline outlets or municipal, state, federal, or institutional refueling areas with installed BMPs

xxiv. Number and location of entity facilities that have containment for accidental releases

xxv. Estimated acreage or square footage and location where pesticides, herbicides and fertilizers are applied by the entity

xxvi. Estimated linear feet or percentage and location of unvegetated swales and ditches that have an adequately sized vegetated filter strip

xxvii. Estimated linear feet or percentage and location of MS4s cleaned or repaired

xxviii. Estimated linear feet or percentage and location of roadside shoulders and ditches stabilized

xxix. Number and location of storm water outfall areas remediated from scouring conditions

xxx. Number and location of de-icing salt and sand storage areas covered or otherwise improved to minimize storm water exposure

xxxi. Estimated amount, in tons, of salt and sand used for snow and ice control

xxxii. Estimated amount of material collected from catch basin, trash rack, or other structural BMP cleaning

xxxiii. Estimated amount of material collected from street sweeping

xxxiv. Number or percentage and location of canine parks sited at least 150 feet away from a surface water body

xxxv. Other

PART D: MISCELLANEOUS INFORMATION

12. On-Going Water Quality Characterization Activities
    a. Monitoring Data (submit summary of appropriate results):

    b. Other:

    Per the IDEM Annual Report Submittal Guidance 2010, we do not need to respond to this question. This information is included in the Part B update.

13. Discuss any problems encountered during this period (include any BMP changes in response to problems encountered).

    Insufficient personnel, time and budgetary constraints are still our main obstacles.
    The rainfall event of September 12-14, 2008 has shown the need for additional water quantity projects, and the City of Valparaiso is working on it.

14. Identify any new funding source(s) for implementing this permit.

    From 2008 to 2010, the City of Valparaiso and Valparaiso University partnered with Save the Dunes Conservation Fund on the following projects: Rain Barrel Promotion, Calumet Streetscape Swale, Vegetated Swale and Wetland Swale at V.U., Forest Park Enhancements and Wash Station; Watershed Signage Campaign; Tree cells at Central Park, and Tree Initiative Program.

15. Identify any non-routine (i.e. do not include routine maintenance or cleaning) budgetary transactions related to your permit. List all storm water improvement projects started during this reporting period.

    Wall Street Detention Basin, Thorgren Basin, Sewer Separation Projects, Union Street, Franklin Street Basin, Evans Avenue Interceptor, McKinley Street Storm Sewer

16. Provide a summary of complaints received and the follow-up actions taken in reference to storm water quality issues.

Erosion Control at construction sites is the main source of complaints the City encounters. The complaints received are dealt with quickly and appropriately. Construction sites not in compliance with the City's erosion control ordinance usually receive a warning, and then if the problem is not corrected, a fine is levied. From July 1st 2008 to June 30th 2010, the City of Valparaiso sent out a total of 123 warnings to builders/developers and 29 fines for erosion control violations. The total amount collected in fines was $4,300.

There were many complaints related to the stormwater resulted flooding that occurred in early September 2008 in the City. The City of Valparaiso together with Valparaiso University conducted a city-wide drainage survey in November 2008. Based on the survey results and the past information of the potential projects, 17 projects emerged as the best use of resources to bring maximum impact. The City has started to work on some of these projects.

17. Implementation status:
    a. Are the six minimum control measures being implemented within the compliance schedule and SWQMP timetables?
    ☒Yes ☐No*
    * If no, explain:

    b. Do you foresee any problems which may affect full implementation of all the measures?
    ☐Yes ☒No*
    * If yes, explain:

    However, insufficient personnel and budgetary constraints will probably continue to be our main obstacles

    c. Are the six minimum control measures meeting percent reduction goals specified in the SWQMP?
    ☒Yes ☐No*
    * If no, explain:

    The City's 6 MCMs are new and it is too difficult to determine accurate percent reductions at this time. The City's SWQMP is certainly farther along than it was several years ago, but I think it will be many years before we can accurately say that we are noticing significant measurable reductions in stormwater pollution.

PART E: CERTIFICATION AND SIGNATURE

The individual completing this report, listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this Rule 13 annual report, I hereby 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 gather and evaluate 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."

Type or Print Name: Mingyan Zhou

Signature: _____ **10/26/2010 (mm/dd/year)**