

NPDES Phase II Stormwater Management Plan

#1: Public Education & Outreach

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
1.A	The applicant individually or as a member of the Papillion Creek Watershed Partnership (PCWP) will distribute informational brochures on the proper disposal of household hazardous wastes and the availability of the Household Hazardous Waste facility.	Year 1 – 5: Print and distribute brochures. Include the following in Annual Report: <ul style="list-style-type: none"> • the quantity of waste received at the drop-off facility; • a summary list of the distribution outlets used for brochures; • an estimate of the brochures distributed each year.
1.B	The applicant individually or as a member of the PCWP will issue public service announcements related to storm water protection on local TV, radio or print outlets.	Year 1 – 5: A summary of the activities will be included in the Annual Report.
1.C	The applicant individually or as a member of the PCWP will continue existing drain marking program to improve public awareness concerning illegal dumping utilizing volunteer services (e.g. Boy Scouts) which will address TMDL pollutants of concern.	Year 1 – 5: Mark approximately 1,000 inlets annually and include a summary in the Annual Report.
1.D	The applicant as a member of the PCWP will hold a Sediment and Erosion Control Seminar for the developers, builders, engineers, vendors, and graders which will address TMDL pollutants of concern.	Year 1 – 5: Annual Sediment and Erosion Control Seminar. Include a summary of the approximate number of participants in Annual Report.
1.E	The applicant individually or as a member of the PCWP will work collaboratively with other community organizations to develop a campaign aimed at picking up pet waste which will address TMDL pollutants of concern.	Year 1: Develop outreach material and partnerships. Year 2 - 5: Distribute information. Provide an estimate of number of brochures distributed and activities targeted.
1.F	The applicant individually or as a member of the PCWP will develop materials and displays associated with BMP demonstration projects installed with Stormwater Management Program Plan funds from NDEQ.	Year 1 -5: Provide a narrative and examples of materials developed in annual report.
1.G	Develop a PCWP Stormwater Program Web Site, including but not limited to storm water related information and provide educational information targeted for residents, children, and industries which will address TMDL pollutants of concern.	Year 1-5: Develop, operate and maintain a PCWP Stormwater Web site. Include a narrative in the Annual Report describing the functions of the website. Ensure that the website is accessible from each community's website.

2: Public Participation and Involvement

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
2.A	The applicant individually or as a member of the PCWP will operate a stormwater hotline and web based complaint system for Watershed (general information, complaints, reports of illegal dumping, etc.).	Years 1 - 5: Maintain system operation and include summary of received calls/emails in the Annual Report.
2.B	The applicant individually or as a member of the PCWP will participate in organizing and hold open houses on Papillion Creek Watershed Partnership activities.	Years 1 - 5: A summary of activities will be included in the Annual Report.
2.C	The applicant individually or as a member of the PCWP will continue to implement a stream Cleanup Day. Utilize Keep Omaha Beautiful to identify stream segments in need of cleanup and recruit volunteers from the local area, public groups, and representatives from local area business and developments.	Years 1 – 5: Conduct one clean-up day each year. A summary of the clean-up day activities will be included in the Annual Report.
2.D	The applicant individually or as a member of the PCWP will provide tours of UndertheSink, household hazardous waste facility, for schools and neighborhood organizations to learn about the proper way to manage household chemicals and about stormwater treatment systems installed at the site.	Year 1 – 5: Provide a summary of the tours conducted on an annual basis for the annual report. Document when BMPs are installed and included in the tour.
2.E	The applicant as a member of the PCWP will hold World O! Water Festival focused on elementary school aged children to celebrate Clean Water and engage in water quality related activities.	Year 1-5: Hold event annually. Report estimated number of participants in Annual Report.
2.F	The applicant individually or as member of the PCWP will participate in community organizations, conferences, workshops, and web casts related to water quality and stormwater management.	Year 1- 5: Report number of staff attending, dates, location, and description of events.

3: Illicit Discharge Detection and Elimination

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
3.A	The applicant will perform dry-weather inspections including Physical Characteristics Examinations of storm water outfalls 72" or greater and any outfalls with documented complaints.	Year 1 – 5: Inspect and record observations. Include a count of outfalls inspected in the Annual Report.
3.B	The applicant will investigate and seek resolution concerning any dry weather discharges by notifying the source that they must discontinue discharging, and initiate enforcement action consistent with adopted ordinance which will also address any TMDL pollutants of concern. Any source that the applicant feels constitutes an immediate health or safety threat will be reported immediately to the NDEQ.	Year 1 – 5: The following information will be included in the Annual Report: <ul style="list-style-type: none"> • the number of process or potentially polluted wastewater sources found; • the number of above resolved at local level; and • the identity of any referred and/or unresolved discharge sources.
3.C	The applicant will perform dry weather inspection of storm water outfalls, including smaller outlets and those that discharge to lesser tributaries or other storm conduits, in response to suspect conditions and/or complaints.	Year 1 – 5: Inspect and record observations. Included a count for outfalls inspected in the Annual Report.
3.D	The applicant will enforce existing ordinances/regulations prohibiting illicit discharge connections to storm sewers.	Year 1 -5: Summarize code violations and enforcement actions taken in annual report.
3.E	The applicant will maintain and prevent instances of sanitary sewer leakage into MS4 or waters of the state.	Year 1 -5: Summarize investigations of leakage and actions taken in Annual Report.
3.F	The applicant will maintain and update a sewer map of major storm water outfalls and identify the names of respective receiving waters.	Years 1 - 5: Map will be maintained electronically on City or County GIS.
3.G	The applicant will prevent, contain and respond to spills in the MS4. Review, as necessary, interdepartmental SOPs with respects to spills, dumping and illegal disposal that impacts the MS4.	Year 1-5: Summarize number of reports of spills and actions taken in Annual Report. Identify respective Department SOP and review date in Annual Report.

4: Construction Site Runoff Control

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
4.A	Maintain the PCWP construction site inspection and reporting web site and continue to make enhancements.	Year 1-5: Include a narrative in the annual report about major web site upgrades and the date implemented.
4.B	The applicant as a member of the PCWP will maintain a construction site inspection program that includes procedures for reporting, resolving deficiencies, and taking appropriate enforcement action consistent with adopted ordinances.	Years 1-5: The Annual Report will contain the following information relative to this commitment: 1) the number of inspections conducted in each of the following size categories: < 5 acres and > 5 acres 2) the number of sites receiving enforcement actions.
4.C	The applicant individually or as a member of the PCWP will maintain regulations and design specifications for controlling erosion, sediment loss, and other TMDL pollutants of concern from construction sites that disturb areas of 1 acre or more.	Year 1 -5: Provide a narrative description of any changes implemented in sediment and erosion control regulations or design specifications in the annual report.
4.D	The applicant individually or as a member of the PCWP will maintain a program for performing review of Grading Permit applications to ensure compliance with applicable regulations and design specifications.	Year 1 -5: Summarize the number of grading permit issued on an annual basis.

5: Post-construction Runoff Control

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
5.A	The applicant individually or as a member of the PCWP will develop a guidance document for Post-Construction Stormwater Management Plan.	Year 1: Revise ordinances as necessary to institute authority to require the use of post-construction stormwater controls. Year 2: Develop guidance document for Post Construction Storm water Management Plan Year 2-5: Revise as necessary.
5.B	The applicant individually or as a member of the PCWP will develop a database of existing structural BMPs (private and public) that reduce the impact of urbanization on storm water run-off and improve water quality and enhance other amenities and activities such as green space, parks and recreation, urban planning, aesthetics, and public safety.	Year 2: Coordinate with engineering firms and the NRD to identify existing BMPs and their location. Year 3: Develop a database and GIS map of BMPs.
5.C	The applicant will inspect annually and maintain (as necessary) the MS4 owned storm water BMP structures.	Year 1 -5: List BMPs inspected and summarize maintenance activity in Annual Report.
5.D	The applicant will revise stormwater BMP maintenance and inspection plan as needed.	Year 1-5: Review maintenance plan annually and include new structures. Make revisions as necessary. Report revisions and new structures in Annual Report.
5.E	The applicant individually or as a member of the PCWP will implement strategies, which include a combination of structural and or non-structural BMPs appropriate for the watershed, which will address potential TMDL pollutants of concern. Non-structural BMP's, including improved planning and site design, shall be a priority. Evaluate these strategies and implement changes as necessary to improve water quality and address potential TMDL pollutants of concern.	Year 1 -5: Summarize strategies in the Annual Report.

6: Pollution Prevention/Good Housekeeping for Municipal Operations

BMP #	SWMP Element Description	Measurable Commitments & Implementation Schedule
6.A	The applicant will maintain Runoff Control Plans for all the MS4's maintenance facilities to identify BMPs implemented. Review Plan annually and update as necessary. . Inspect all facilities annually.	Year 1 -2: Develop Runoff Control Plan for maintenance facilities. Year 3-5: Review and Revise Runoff Control Plan. Summarize efforts in Annual Report.
6.B	The applicant will inspect storm sewer conduits, channels and catch basins and remove and properly dispose of sediment and debris as needed to maintain an efficient system within permitted area.	Year 1 - 5: Report maintenance activities in the Annual Report.
6.C	The applicant individually or as a member of the PCWP will provide training for employees to prevent pollutant runoff from municipal operations at the applicant's maintenance facilities and at field operations.	Years 1 – 5: Provide training for employees and include summary in Annual Report of when training was held and number of attendees.
6.D	The applicant will provide for street cleaning in the following areas: <ul style="list-style-type: none"> • Residential • Business • Major Streets • Other areas in conjunction with special projects 	Year 1 – 5: Summarize street cleaning activities in Annual Report.
6.F	The applicant's staff that apply pesticides will be trained in a certification program that complies with FIFRA regulations.	Year 1 -5: Report total number of Staff certified each year in the Annual Report.
6.G	The applicant will continue to minimize pesticide and fertilizer use on publically maintained properties.	Year 1 -5: Summarize efforts in Annual Reports.

#8: Storm Water Monitoring Plan

SWMP Element #	SWMP Element Description	Measurable Commitments & Implementation Schedule
8.A	<p>The applicant as a member of the PCWP will conduct in-stream water quality monitoring of named creeks in the Papillion Creek Watershed. Collect samples from at least 4 sites located in the Papillion Creek Watershed. Samples will be collected from May through August one day a week and analyzed for the following parameters: BOD5, TSS, ammonia nitrogen, nitrate-nitrogen, total nitrogen, soluble and total phosphorus, turbidity, pH, E coli, and Physical Characteristic Examinations. The purpose of the monitoring will be to evaluate the effectiveness of storm water management practices in the Papillion Creek watershed as they relate to potential TMDL pollutants of concern.</p> <p>List of potential sites: 170 and Highway 36 (Big Papio) 77th and L Street (Big Papio) 66th and L Street (Little Papio) Ft. Crook Road – USGS station (Papillion Creek)</p>	<p>Year 1- 5: Conduct monitoring The following information shall be included in the Annual Activity Report:</p> <ul style="list-style-type: none"> • The monitoring data; • A summary report on the findings relative to SWMP efforts; • Any modifications of monitoring locations or procedures.
8.B	<p>The applicant as a member of the PCWP will develop an assessment monitoring plan for demonstration BMPs. Evaluate the effectiveness of the selected BMPs to treat storm water for the TMDL pollutants of concern and other water quality benefits. Consider implementation of refinements to the BMPs, which would improve their effectiveness.</p> <p>One aspect of the monitoring plan will include the collection stream samples on the segment that runs through Orchard Park to establish baseline conditions for BMP assessment purposes.</p> <p>Additionally, the plan will address how the applicant proposed to use stream samples collected in dry weather and wet weather, as described in 8.A above, to estimate the pollutant masses discharged on an event basis and an annual basis.</p>	<p>Year 1 – 2: Visually document and monitor the installation of the demonstration BMPs. Installation is expected to be complete by the end of Year 2. Provide a narrative to report progress in Annual Report.</p> <p>Year 2: Develop the BMP assessment monitoring plan and submit to NDEQ for approval as an attachment to the Annual Report.</p> <p>Years 3 - 5: Conduct monitoring. The following information shall be included in the Annual Activity Report:</p> <ol style="list-style-type: none"> 1) the location of the monitoring site 2) the intensity and duration of the storm event monitored; 3) the timing of sampling in comparison to the occurrence of the storm event and to the discharge of peak storm water flows; 4) the monitoring data; and 5) a summary report on the findings of the removal rates of the constituents monitored for the BMPs.