



# FACT SHEET

NPDES Permit Number: IDS-028100  
Date: July 11, 2008  
Public Comment Period Expiration Date: September 19, 2008  
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## **The U.S. Environmental Protection Agency (EPA) Proposes to Issue a National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges To:**

**City of Middleton, Idaho**

### **EPA Requests Public Comment on the Proposed Permit**

EPA Region 10 proposes to issue a NPDES permit authorizing the discharge of storm water from all municipal separate storm sewer system (MS4) outfalls owned and operated by the City of Middleton, Idaho (City). Permit requirements are based on Section 402(p) of the Clean Water Act, 33.U.S.C. § 1342(p), and EPA's "Phase II" regulations for MS4 discharges, published in the Federal Register on December 8, 1999, 64 Fed. Reg. 68722.

The draft NPDES permit requires the implementation of a municipal storm water management program (SWMP), and outlines the best management practices (BMPs) to be used by the City to control pollutants in storm water discharges to the maximum extent practicable. The permit establishes conditions, prohibitions, and management practices for discharges of storm water from the MS4 owned or operated by the City. Monitoring of storm water discharges is also required. Annual reporting is required to provide information on the status of the SWMP implementation. Part III of the permit summarizes the activities and schedule for SWMP implementation.

This fact sheet includes:

- information on public comment, public hearing and appeal procedures;
- a description of the City's MS4; and
- a description of requirements for the local SWMP, a schedule of compliance, and other conditions.

EPA is requesting comments on all aspects of the proposed permit. Topics about which EPA is particularly interested in receiving public input are identified in this fact sheet using ***bold italic*** text.

### **The State of Idaho Certification.**

EPA has requested that the Idaho Department of Environmental Quality (IDEQ) certify this NPDES permit pursuant to Section 401 of the Clean Water Act, 33 U.S.C. § 1341. EPA may not issue the NPDES permit until the state has granted, denied or waived certification. IDEQ provided a draft certification for this permit (see Appendix C) and will accept public comment on this draft as indicated below through the end of the comment period indicated above. For more information about this review, please contact Mr. Craig Shephard at (208) 373-0550.

### **Public Comment**

EPA will consider all comments before issuing the final permit. Comments should include a name, address, phone number, the permit number of the draft permit (#IDS-028100), and a concise statement of the basis of the comment, as well as relevant facts upon which the comment is based. All written comments should be postmarked no later than the public comment period expiration date and addressed to the Manager, NPDES Permits Unit, U.S. EPA - Region 10, 1200 Sixth Avenue, Suite 900, OWW-130, Seattle, WA 98101; alternatively, comments can also be submitted by facsimile at (206) 553-0165; or submitted via e-mail to [vakoc.misha@epa.gov](mailto:vakoc.misha@epa.gov).

Persons wishing to comment on the State Certification should submit written comments by the public notice expiration date indicated at the beginning of this fact sheet to:

Regional Administrator  
Idaho Department of Environmental Quality  
Boise Regional Office  
1445 North Orchard  
Boise, ID 83720

### **Public Hearings**

EPA has scheduled two meetings to discuss this permit and accept public comment. These meetings will also address other concurrently proposed permits for storm water discharges in the Nampa and Boise Urbanized Areas. Each meeting will begin at 6:00 pm. During the public hearing portion of the meetings, EPA will accept both written and oral testimony regarding all of the proposed permits.

Wednesday, August 13, 2008  
Caldwell Police Station - Community  
Meeting Room  
110 South 5<sup>th</sup> Avenue  
Caldwell, Idaho

Thursday, August 14, 2008  
Boise Public Library - Hayes Auditorium  
8<sup>th</sup> Avenue Entrance  
715 South Capitol Boulevard  
Boise, Idaho

After the public comment period expires and all significant comments have been considered, EPA's Director of the Office of Water and Watersheds will make a final decision

regarding permit issuance. If no comments requesting a change in the draft permit are received, the tentative conditions in the draft permit become final, and the permit will become effective upon issuance. If comments are submitted, EPA will prepare a response to comments document and, if necessary, will make changes to the draft permit. After making any necessary changes, EPA will issue the permit with the response to comments, unless issuance of a new draft permit is warranted pursuant to 40 CFR § 122.14. The permit will become effective no earlier than thirty-three (33) days after the issuance date, unless the permit is appealed to the Environmental Appeals Board within 30 days pursuant to 40 CFR § 124.19.

### **Documents Are Available for Review**

The draft NPDES permit and related documents can be reviewed or obtained by contacting EPA's Regional Office in Seattle between 8:30 a.m. and 4:00 p.m., Monday through Friday (see address below). The draft permit and fact sheet can also be found by visiting the Region 10 website at <http://www.epa.gov/region10/stormwater.htm>. Reference materials cited in the fact sheet are available in electronic format or in hard copy. To request copies and other information, please contact the NPDES Permits Unit at:

United States Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Suite 900, OWW-130  
Seattle, Washington 98101  
(206) 553-6650 or  
1-800-424-4372, x 6650 (toll free in Alaska, Idaho, Oregon, and Washington)

The draft permit and fact sheet are also available at:

U.S. EPA Idaho Operations Office  
1435 North Orchard  
Boise, Idaho 83706  
(208) 378-5746

Idaho Department of Environmental Quality  
Boise Regional Office  
1445 North Orchard  
Boise, ID 83720  
(208) 373-0550

For technical questions regarding the draft permit or fact sheet, contact Misha Vakoc at the phone number or e-mail address at the beginning of this fact sheet. Those with impaired hearing or speech may contact a TDD operator at 1-800-833-6384 (ask to be connected to Misha Vakoc at the above phone number). Additional services can be made available to a person with disabilities by contacting Misha Vakoc.

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## **I. Introduction**

Storm water is the surface runoff that results from rain and snow melt. Urban development alters the land's natural infiltration, and human activity generates a host of pollutants that can accumulate on paved surfaces. Uncontrolled storm water discharges from urban areas can negatively impact water quality.

The National Pollutant Discharge Elimination System (NPDES) storm water regulations establish permit requirements for discharges from publicly owned ditches, pipes and other conveyances in urban areas. This fact sheet describes the municipal separate storm sewer systems (MS4s) owned and operated by the City of Middleton, Idaho (City), and explains the rationale for the proposed NPDES permit conditions. Appendix A of this fact sheet details the regulatory background for the MS4 permit program, and the types of pollutants typically found in urban runoff.

The terms “municipal separate storm sewer” and “small municipal separate storm sewer system” are defined at 40 CFR §122.26(b)(8) and (b)(16), respectively. MS4s include any publicly-owned conveyance or system of conveyances used for collecting and conveying storm water and which discharges to waters of the United States. MS4s are designed for conveying storm water only, and are not part of a combined sewer system, nor part of a publicly owned treatment works. Such a system may include roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains.

The City owns and operates a regulated small MS4 within the Nampa Urbanized Area. A *regulated small MS4* is defined as any MS4 located in an “urbanized area” as defined by the Bureau of the Census from the Year 2000 Census; the term may also describe small MS4s located outside of an urbanized area that are designated as regulated by the NPDES permitting authority. See 40 CFR §122.32(a). A regulated small MS4 includes storm drain conveyance systems owned or operated by a state, city, or federal entity, a town, or other public entity where storm water discharges directly to waters of the U.S. The regulated MS4 may drain into another MS4 before ultimately discharging to surface water.

## **II. Permit Area and Applicant**

In accordance with Section 402(p) of the Clean Water Act (CWA), 33 USC § 1342(p), and federal regulations at 40 CFR §122.32, the draft permit is being proposed on a system-wide basis for the following MS4 operator:

City of Middleton  
15 North Dewey Avenue  
Middleton, Idaho 83651

The MS4 owned or operated by the City is located within the boundaries of the Nampa Urbanized Area as defined by the Year 2000 Decennial Census. See Appendix B for a map of the Nampa Urbanized Area. The U.S. Environmental Protection Agency (EPA) received from the City an application for NPDES permit coverage dated February 2003, and an application

update in January 2008, describing a Storm Water Management Program (SWMP) to reduce pollutants in discharges from the MS4 to the maximum extent practicable (MEP).

EPA has concurrently proposed similar NPDES permits for other regulated MS4s in the greater Nampa-Boise Urbanized Areas in an effort to establish consistent, area wide expectations for the management of municipal storm water. Other regulated small MS4s for which EPA has proposed NPDES permits include:

- City of Caldwell (Permit #IDS-028118);
- City of Nampa (Permit #IDS-028126);
- Canyon Highway District (Permit #IDS-028134);
- Nampa Highway District (Permit #IDS-028142);
- Notus-Parma Highway District (Permit #IDS-028151);
- Ada County Highway District (Permit #IDS-028185); and
- Idaho Transportation Department, District #3 (Permit #IDS-028223).

As described in greater detail below, EPA encourages these operators to work together to adequately control storm water discharges from their respective MS4s.

***EPA requests public comment on whether other municipal entities within the Nampa and/or Boise Urbanized Areas own or operate regulated small MS4s subject to the federal storm water permitting requirements.*** In 2003, City of Meridian, City of Eagle, and Ada County each submitted information to EPA asserting that their organizations do not own or operate MS4s; EPA requests any updated information regarding the owner/operator status of other MS4s within the greater Nampa and/or Boise Urban Areas.

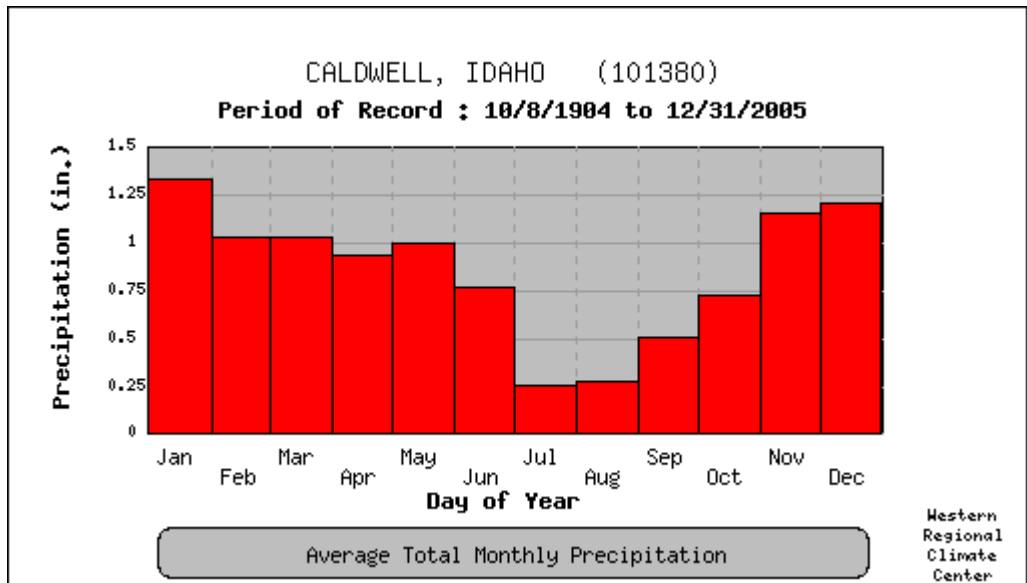
### **III. Description of the MS4 and Discharge Locations**

The City owns and/or operates a MS4 within the Nampa Urbanized Area located in Canyon County, Idaho. The MS4 serves a population of approximately 5,075 residents within the city limits covering approximately five square miles. The MS4 consists of storm sewer pipe, catch basins, sand and grease traps, and other features. Storm water runoff is discharged within the city limits to the following waters of the United States: Willow Creek, Mill Slough and the Lower Boise River.

The City submitted a preliminary storm sewer system map in February 2003 . Part II.B.3.d of the draft permit requires the City to maintain, and update as necessary, a detailed storm sewer system assessment and map during the permit term. The map must fully define the extent of the MS4 and verify the location of all outfalls and interconnections with the MS4s of adjacent jurisdictions which ultimately discharge to waters of the U.S.

#### IV. Average Annual Precipitation in the Middleton Area

The National Oceanic and Atmospheric Administration's Western Regional Climate Center maintains historical climate information for various weather stations throughout the western United States. The greater Caldwell area has an annual average precipitation of approximately 10.6 inches per year and an annual average snowfall of 16.5 inches per year.



#### V. Receiving Waters

##### A. General Information

EPA proposes to authorize storm water discharges from the MS4 owned or operated by the City within the Nampa Urbanized Area to waters of the United States. As described above, receiving waters include Willow Creek, and the Boise River. All discharges to waters of the U.S. located within the permit coverage area must comply with this permit which includes any limitations imposed by the State as part of its water quality certification of NPDES permits pursuant to CWA Section 401, 33 U.S.C. § 1341.

The Idaho Department of Environmental Quality (IDEQ) has classified the water bodies receiving discharges from the Middleton MS4 as fresh water with the following designated uses (see IDAPA 58.01.02.140.12):

Willow Creek: not designated, but presumed to be cold water aquatic life and primary contact recreation

Boise River, from River Mile 50 to Indian Creek: cold water aquatic life, salmonid spawning and primary contact recreation

Boise River, Indian Creek to mouth:  
 cold water aquatic life, primary contact recreation

**B. Water Quality and Total Maximum Daily Loads**

Any water body that does not and/or is not expected to meet the applicable water quality standards is described as “impaired” or as a “water quality-limited segment.” Section 303(d) of the CWA, 33 U.S.C. § 1313(d), requires States to identify impaired water bodies within the State and develop Total Maximum Daily Load (TMDL) management plans for those impaired water bodies. TMDLs define both waste load allocations (WLAs) and load allocations (LAs) that specify how much of a particular pollutant can be discharged from both regulated and unregulated sources, respectively, such that the water body will again meet State water quality standards. In a water body where EPA has approved a TMDL, any NPDES permit conditions must be consistent with the assumptions and requirements of available WLAs. See 40 C.F.R. § 122.44(d)(1)(vii)(B).

IDEQ’s 2002 *Integrated Section 303(d)/Section 305(b) Report* (2002 Integrated Report) contains the list of impaired water bodies as required by CWA Section 303(d). Table 1 (below) reflects the water bodies in the Nampa Urbanized Area considered by IDEQ to be water quality-impaired (*i.e.*, meaning the water body does not meet water quality standards), as well as the status of associated TMDLs for those water bodies. According to the City’s NPDES permit application, the City’s MS4 discharges directly to Willow Creek, Mill Slough and the Lower Boise River.

**Table 1. Impaired Waters and TMDLs in the Nampa and Boise Urbanized Area as Listed in IDEQ’s 2002 Integrated Report**

Waterbody	Pollutant of Concern	TMDLs
Boise River (from Star to Notus)	Flow alteration <sup>+</sup> , sediment*, dissolved oxygen*, oil and grease*, nutrients*, bacteria, temperature#	Sediment and bacteria TMDL approved by EPA in 2000; TMDL for phosphorus is pending

\*Based on available data, IDEQ’s subbasin assessments recommend that these waterbodies be removed from the 303(d) list for nutrients and oil and grease; that no TMDL is necessary for dissolved oxygen or sediment, but monitoring of these parameters should be continued. See Indian Creek, Lower Boise River Nutrient, and Mason Creek Subbasin Assessment,s December 2001.

<sup>+</sup> Flow alteration is not considered a pollutant; TMDLs may only be developed for pollutants that can be quantified.

# Temperature will be addressed by IDEQ in the future through its Potential Natural Vegetation protocol.

A TMDL for sediment and bacteria in the Lower Boise River was approved by EPA in 2000. The TMDL describes stormwater runoff as a contributing source of sediment to the



Boise River, but does not specifically mention storm water runoff as a source of bacteria to the river. The TMDL assigns load allocations to the tributaries necessary to meet sediment and bacteria target concentrations in the Boise River.. Percent reduction pollutant targets are based on a numeric interpretation of the state's narrative standard for sediment (50 mg/L) and the existing water quality standard for *E.coli* (126 E.coli/100 ml).<sup>1</sup>

Although the Lower Boise River is not itself considered impaired for nutrients, nutrients originating in the Lower Boise River Watershed are contributing to the impairment of beneficial uses in the Snake River. The Snake River-Hells Canyon TMDL, approved by EPA in 2004, establishes a load allocation for total and dissolved phosphorus from nonpoint sources and tributaries to the Snake River, including the Boise River. A TMDL determining specific load allocations and WLAs for sources within the Lower Boise watershed is pending; runoff from urban sources such as residential areas and golf courses are acknowledged as a source of phosphorus load. Preliminary analysis for the Lower Boise River phosphorus allocations for the Snake Canyon Hells Canyon TMDL identifies a 50% reduction of total phosphorus to be implemented through best management practices that target phosphorus reduction through requirements on new development, and through increased inspection and maintenance of onsite retention practices.<sup>2</sup>

The *Implementation Plan for the Lower Boise Watershed*, dated December 2003 (Lower Boise Implementation Plan), addresses both urban and suburban storm water sources, and provides guidance to those municipal entities required to reduce pollutants in their storm water discharges. The Lower Boise Implementation Plan addresses the sediment and bacteria TMDLs, and also acknowledges activities that will also implement the pending phosphorus TMDL, The Lower Boise Implementation Plan suggests a menu of activities for regulated MS4 operators which are expected to reduce the pollutants of concern (i.e., sediment, bacteria, and nutrients) in discharges to the Lower Boise River and its tributaries.<sup>3</sup> These actions include targeted public education activities, construction site runoff control, and on-site control of post-construction runoff, EPA has included many of these required actions in this permit to address the pollutants of concern. Further, EPA has required that the permittee identify through its annual report how the actions required by this permit are specifically targeted within their jurisdiction to reduce overall pollutant loading.

NPDES permit conditions must be consistent with the assumptions and requirements of available WLAs. See 40 C.F.R. § 122.44(d)(1)(vii)(B). EPA's guidance entitled *Interim Permitting Policy for Water Quality Based Effluent Limitations in Storm Water Permits* (61 FR 43761, November 26, 1996)<sup>4</sup> and "*Establishing Total Maximum Daily Load Wasteload Allocations for Storm Water Sources and NPDES Permit Requirements Based on Those WLAs.*" (2002 EPA Memo)<sup>5</sup> define how NPDES permit conditions for regulated storm water discharges can be consistent with the assumptions and requirements of available water quality information and TMDLs. This guidance recommends that the permitting authority use best

<sup>1</sup> Lower Boise River TMDL Subbasin Assessment, Total Maximum Daily Loads, Revised: September 29, 1999

<sup>2</sup> Lower Boise River Phosphorus Allocations for the SR-HC TMDL, August 2007.

<sup>3</sup> Implementation Plan for the Lower Boise TMDL, December 2003

<sup>4</sup> This policy is available on-line at <http://www.epa.gov/npdes/pubs/swpol.pdf>.

<sup>5</sup> This memorandum is available on-line at <http://www.epa.gov/npdes/pubs/final-wwtmdl.pdf>

management practices (BMPs) to implement WLAs and load reduction targets in a NPDES permit. In addition, when BMPs are used, the guidance document suggests that the permit provide a mechanism to require the use of expanded or better tailored BMPs when monitoring demonstrates they are necessary to implement the WLA and protect water quality.

EPA uses this approach in this permit. Based on information contained in the permit application, the City's MS4 discharges directly to the Boise River and its tributaries. The Boise River is impaired for sediment and bacteria, and sources within the Lower Boise River Watershed contribute excess nutrients to down stream receiving waters. A Lower Boise Implementation Plan has been developed along with the TMDL which addresses appropriate practices to reduce sediment and bacteria in urban runoff. Urban runoff includes storm water discharges from regulated MS4s, such as the City of Middleton. As mentioned previously, the Lower Boise River phosphorus TMDL is currently pending, but recognizes storm water runoff as a source of phosphorus. As such, the permit requires that the City specifically target the pollutants of concern (sediment, bacteria and nutrients) in discharges to the Boise River and its tributaries through the SWMP activities outlined in Parts II.B and II.C of the permit. The permit also requires storm water discharge monitoring intended to better estimate the pollutant loading from the City's storm water outfalls.

In the event that EPA approves other TMDLs for waters within the Nampa Urbanized Area prior to the expiration date of this permit, and waste load allocations are assigned to the City's MS4, EPA may elect to modify this permit. Part VI.A of the permit addresses such a permit modification, consistent with the regulations at 40 CFR §§122.62, 122.64 and 124.5.

## **VI. Basis for Permit Conditions**

### **A. General Information**

The conditions established in this permit are based on Section 402(p)(3)(B) of the CWA, 33 U.S.C. § 1342(p)(3)(B), which requires any NPDES permit for MS4 discharges to effectively prohibit non-precipitation related flows from entering the MS4. In addition, the NPDES permit must require controls necessary to reduce pollutants in municipal storm water discharges to the MEP, including management practices, control techniques, and system design and engineering methods, and/or other such provisions determined by the NPDES permitting authority to be appropriate. Appendix A of this fact sheet discusses the regulatory background for the municipal storm water program.

NPDES permits for regulated small MS4s must, at a minimum, require the operator to develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants from the small MS4 to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements under the CWA. See 40 CFR § 122.34(a). The SWMP must include six minimum control measures that are set forth in the federal regulations. See 40 CFR § 122.34(b). These six minimum control measures are discussed in more detail below. Absent evidence to the contrary, it is presumed that a permit for a small MS4 operator who implements

a SWMP that covers the six minimum measures does not require more stringent limitations to meet water quality standards. See 64 Fed. Reg. at 68753 (Dec. 8, 1999).

In the preamble to the Phase II regulations, EPA has stated that it “considers narrative effluent limitations requiring implementation of Best Management Practices (BMPs) to be the most appropriate form of effluent limitations for MS4s.” 64 Fed. Reg. at 68753 (Dec. 8, 1999). EPA’s 1996 interim permitting policy recommends the use of BMPs in the first 5-year permit round, and use of expanded or better tailored BMPs in subsequent permits, to provide for the attainment of water quality standards. See “Interim Permitting Approach for Water Quality-Based Effluent Limitations in Storm Water Permits,” 61 Fed. Reg. 43761 (August 26, 1996). EPA reiterated the use of this approach for implementing WLAs for storm water discharges. See Establishing Total Maximum Daily Load (TMDL) Wasteload Allocations for Storm Water Sources and NPDES Permit Requirements Based on Those WLAs,” EPA Memorandum, dated November 22, 2002. Where BMPs are used as permit limitations to implement WLAs and load reduction targets, the permit must require monitoring necessary to assure compliance with WLAs and load reduction targets. *Id.*

EPA considered the program information submitted by the City in the NPDES permit application, the Lower Boise TMDL Implementation Plan, as well as input from IDEQ, to develop the requirements in the proposed permit. The permit application and other documents are included in the administrative record supporting this permitting decision. After reviewing all of this information, EPA has determined that BMPs, implemented and enforced through a comprehensive SWMP, are the most effective means for reducing the discharge of pollutants to the MEP and for complying with the water quality provisions of the CWA. Thus, the draft permit proposes the use of BMPs, implemented through the actions and activities required in the SWMP, as the primary means to control sources of pollution in urban storm water discharges.

EPA is including analytical monitoring requirements to estimate the contribution from the City’s MS4 discharges to the known water quality impairment of the Boise River and its tributaries. In addition, the monitoring will also assess the City’s contribution of nutrients to the Boise River, because the Boise River is known to contribute to the downstream impairment of the Snake River. EPA is requiring the City to specifically target the pollutants of concern through its SWMP activities and practices, and to evaluate the effectiveness of those practices during the five year permit term.

Numeric effluent limitations are not proposed at this time. Numeric limitations may be included in the final permit if required by the State of Idaho as a condition for certification of the permit pursuant to Section 401 of the CWA, 33 U.S.C. § 1341. However, IDEQ’s draft certification of the permit does not include numeric effluent limitations as a condition of certification (see Appendix C). After permit issuance, EPA may add numeric limitations to the permit through a permit modification process, if EPA determines that the designated beneficial uses of receiving waters are not being met due to the contributions of contaminants by the City’s storm water discharges, and such permit modifications are reasonable to ensure the attainment of water quality standards. See 40 C.F.R. § 122.62.

## **B. Discharges Authorized By This Permit**

The draft permit authorizes all existing storm water discharges to waters of the United States from the portions of the MS4s owned or operated by the City within the Nampa Urbanized Area. In Part I.C, the permit limits the authorization to discharge municipal storm water in the following manner:

- Storm water runoff commingled with process wastewater, non-process wastewater, storm water associated with industrial or construction activity (as defined in 40 CFR §122.26(b)(14) and (15)) and/or other discharge flows are allowed, provided the commingled flows are already authorized by a separate individual or general NPDES permit.
- Certain types of runoff that are unrelated to precipitation events (referred to as “non-storm water”) and which may be listed in 40 CFR §122.26(d)(2)(iv)(B)(1) are also allowed to enter the MS4, provided these discharges are not considered to be sources of pollution to the waters of the United States in the Nampa Urbanized Area. Sources of pollution are defined by the permit in Part I.C.1.c.ii using terminology from the Idaho water quality standards in consultation with IDEQ. Part II.B.3 of the permit complements this limitation, by requiring the City to prohibit, through ordinance or other enforceable means, all other types of non-storm water discharges into the MS4. The City is responsible for the quality of all combined discharges through its MS4 outfalls, and therefore has an interest in locating any uncontrolled and/or un-permitted discharges to its MS4.
- Discharges from the MS4 must not cause violations of federally approved State water quality standards, nor violate the State anti-degradation policy for water quality standards.
- Snow disposal directly into waters of the United States, or directly to the MS4, is prohibited, due to concerns that the accumulated snow and melt water from urban environments may contain elevated levels of pollutants. Discharges of melt water from snow disposal sites and snow management activities are authorized by this permit, if the permittee identifies and implements prudent and appropriate BMPs as required by Section II.B.6 of the permit to control pollutants in the discharges to the MEP. Examples of such practices include: locating snow piles in upland areas; designating different disposal requirements for “clean” or “dirty” snow; providing an storage area with vegetated buffers or filtration through vegetated swales to settle out and recover solid materials, (such as traction material, pet waste, trash, etc.) for disposal.

### **C. Permittee Responsibilities**

EPA regulations at 40 CFR §122.41 require the permittee to comply with all terms and conditions of a NPDES permit. See Part V.A of the permit.

EPA regulations allow that one or more of the SWMP measures may be implemented by an entity other than the permittee (*e.g.*, an organization which is not a regulated MS4 may implement a street sweeping program for a given permittee). See 40 CFR § 122.35(a). As such, Part II.A.4 of the permit allows the City to delegate the responsibility of implementing some or all of a required minimum control measure to another entity if: 1) the other entity in fact implements the control measure; 2) the particular control measure is at least as stringent as the corresponding permit requirement; and 3) the other entity agrees to implement the control measure on the permittee's behalf. Although formal binding agreements are only recommended in the regulation, this permit requires that the permittee enter into binding agreements with such outside parties in order to minimize any uncertainty about compliance with the permit. The City remains responsible for compliance with the permit obligations in the event the other entity fails to implement the control measure (or any component thereof).

EPA has concurrently proposed NPDES permits for storm water discharges from the other regulated small MS4s owned and operated in the Nampa and Boise Urbanized Areas as listed below, and expects to issue all of these permits in the near future:

- City of Caldwell (Permit #IDS-028118);
- City of Nampa (Permit #IDS-028126);
- Canyon Highway District (Permit #IDS-028134);
- Nampa Highway District (Permit #IDS-028142);
- Notus-Parma Highway District (Permit #IDS-028151);
- Ada County Highway District (Permit #IDS-028185); and
- Idaho Transportation Department, District #3 (Permit #IDS-028223).

To encourage partnerships and consistency among the regulated MS4s in the area, EPA has used its discretion to require similar minimum control requirements and implementation schedules for all regulated MS4s in the area. EPA acknowledges that, since submitting its initial permit application, an MS4 operator may already be implementing one or more of the required control activities. Alternatively, in some situations EPA has proposed an activity and implementation schedule that defines a minimum SWMP action that goes beyond what the MS4 operator may have defined through their NPDES permit application. EPA encourages all of the MS4 operators to work together to manage storm water discharges in a comprehensive and consistent fashion throughout the Canyon and Ada County areas.

### **D. SWMP Requirements**

The permit requires the City to develop, implement, and enforce a comprehensive SWMP designed to reduce pollutants to the MEP and to protect water quality. Regulations at 40 CFR §122.34 require the following six minimum pollution control measures to be included in a SWMP:

- Public Education and Outreach on Storm Water Impacts;
- Public Involvement and Participation;
- Illicit Discharge Detection and Elimination;
- Construction Site Storm Water Runoff Control;
- Post Construction Storm Water Management in New Development and Redevelopment; and
- Pollution Prevention/Good Housekeeping for Municipal Operations.

For each measure, the regulations specify certain required activities that must be implemented, and provide guidance on other BMPs to include in an adequate SWMP. EPA has also developed separate guidance documents to assist MS4 operators in developing their SWMP activities and determining appropriate measurable goals to be included in the SWMP.

The City's permit application, submitted in February 2003, contains the various elements of the City's initial SWMP and identifies specific BMPs to accomplish each of the six minimum measures. Part II of the permit incorporates the required minimum actions, and also includes the specific activities set forth by the City in their permit application.

Milestones and compliance dates for the SWMP activities are identified in Part II.B and are summarized in tabular form in Part III of the permit. Dates by which the activities must be accomplished are generally derived directly from the City's application; however, in the interest of proposing permit requirements consistent with the other regulated small MS4 permits for the area, EPA has used its discretion to identify compliance dates for some of the activities.

Part II.C of the permit requires the City to monitor and to target their SWMP activities to address the pollutants of concern in the Boise River and its tributaries. The City may update their SWMP as described in Part II.D. EPA and IDEQ may jointly review and approve any plans or plan modifications submitted by the City. Part II.E of the permit specifies that areas annexed by the City during the permit term must be included in the SWMP within one year of annexation. Part II.F requires that sufficient resources be available to implement the activities of the SWMP. Part IV of the permit requires the City to conduct storm water discharge monitoring to characterize pollutant loading from the MS4 and submit annual reports to document program accomplishments (See 40 CFR §122.34 (g)).

The following sections discuss the SWMP requirements in detail:

***1. Public Education and Outreach (40 CFR §122.34(b)(1))***

The City must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff.

Since there is greater support for the SWMP as the public gains a better understanding of the reasons why the SWMP is necessary and important, an informed and knowledgeable community is crucial to the success of a SWMP. Public support is particularly beneficial when operators of small MS4s attempt to institute new funding initiatives for the program or seek volunteers to help implement aspects of the program. Education can lead to greater compliance with the local programs, as the public becomes aware of the personal responsibilities expected of them and others in the community, including individual actions they can take to protect or improve the quality of area waters.

The City identified several public education activities in its permit application to accomplish this control measure, including:

- providing storm water education through newspaper advertisements;
- distributing informational pamphlets to the public about program activities;
- creating a storm water hotline telephone number to receive information from and provide information to the public; and,
- developing and distributing information related to proper disposal of household hazardous waste.

Consistent with the requirements for other regulated MS4s throughout the state, EPA has elected to include a specific requirement to provide storm water management information to the public via the City of Middleton's website.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies targeted educational materials, use of the media, and storm drain stenciling programs as approaches that can substantively target and reduce sediment, bacteria, and nutrient loading to receiving waters.

EPA encourages the City to work with the other regulated MS4 operators to accomplish these education activities. Cooperative efforts to pool resources and build on existing programs can help all of the regulated MS4 operators to accomplish their public education goals. Specifically, the Partners for Clean Water maintain an active education program in the greater Boise area to support the SWMP conducted by the City of Boise, Garden City, Boise State University, Drainage District #3, ITD District #3, and Ada County Highway District in compliance with NPDES Permit #IDS027561. EPA believes that mutual cooperation and coordination will benefit both the regulated MS4 operators and the Nampa-Boise Urbanized Area-audiences.

***EPA requests comment on the breadth, scope and adequacy of the public education activities contained in Part II.B.1 of the permit, in light of the other actions required by the permit..***

**2. Public Involvement and Participation (40 CFR §122.34(b)(2))**

The draft permit requires that all public participation efforts comply with the applicable requirements of state and local law. If given the opportunity to participate, members of the public generally will become more supportive of a program. EPA encourages MS4 operators to provide more opportunities for public participation, and to attempt to engage all groups serviced by the MS4.

EPA believes that the public can provide valuable input and assistance in the development of a successful SWMP. As such, the public should be given opportunities to play an active role in both the development and implementation of the SWMP. Broad public support is crucial to the success of a SWMP because citizens who participate in the development and decision making process may be less likely to raise legal challenges to the SWMP and are more likely to take an active role in its implementation. In addition, the community is a valuable intellectual resource that can provide a broader base of expertise and economic benefit. Citizens involved in the SWMP development process provide important cross-connections and relationships with other community and government programs that can be particularly valuable when trying to implement a SWMP on a watershed basis.

The City identified in its application that it would develop a storm drain stenciling program designed to stencil 25% of the storm drains during the five year permit term. To provide consistency with other regulated MS4s conducting storm drain stenciling programs, EPA has included increased the required percentage of drain inlets stenciled to 50% of all inlets by the end of the permit term.

The permit includes an additional requirement that all documents relevant to the City's SWMP and all Annual Reports be posted on a website sponsored by the City; this will ensure that the City will continue to provide reasonable public access to storm water information.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies public meetings and community clean up programs as approaches that can garner public acceptance of water quality improvement activities.

EPA encourages the City to work cooperatively with other MS4 operators to coordinate efforts to engage citizens in the discussion of effective storm water management in the Nampa Urbanized Area.

***EPA requests comment on the breadth, scope and adequacy of the public involvement activities of Part II.B.2 of the permit, in light of the other actions required by the permit.***



**3. *Illicit Discharge Detection and Elimination (40 CFR §122.34(b)(3))***

This minimum measure requires the MS4 operator to detect and eliminate illicit discharges from their system. An illicit discharge is any discharge to a MS4 that is not composed entirely of storm water. There are some exceptions to this definition, such as fire fighting activities and discharges already authorized by another NPDES permit. Part I.C. of the draft permit lists the types of allowable non-precipitation, or “non-storm water” drainage, which can be discharged to the MS4, provided that the discharges are not significant contributors of pollutants to the MS4.

Discharges from MS4s often include wastes and wastewater from non-storm water sources. For example, a 1987 study conducted in Sacramento, California found that almost one-half of the water discharged from a local MS4 was not directly attributable to precipitation runoff. A significant portion of these dry weather flows were from illicit and/or inappropriate discharges and connections to the MS4.

Illicit discharges enter the system through either direct connections (*e.g.*, wastewater piping either mistakenly or deliberately connected to the storm drains) or indirect connections (*e.g.*, infiltration into the MS4 from cracked sanitary systems, spills collected by drain inlets, or paint or used oil dumped directly into a drain). Examples of other sources include, but are not limited to: sanitary waste water effluent from septic tanks; car wash waste waters; radiator flushing disposal; laundry waste waters; and improper disposal of auto and household toxic waste. The result can be untreated discharges that contribute high levels of pollutants, including heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria to receiving water bodies. EPA studies have shown that pollutant levels from these illicit discharges can be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health.

The regulations at 40 CFR §122.34(b)(3) contain four required components to this control measure. The MS4 operator must:

- a. Develop a map of the MS4 that shows the location of all outfalls and names of the receiving waters;
- b. Effectively prohibit discharges of non-storm water to the MS4 through the use of an ordinance or other regulatory mechanism, and provide for enforcement procedures and actions. EPA recognizes that some MS4 operators may not have the legal authority to pass an ordinance; therefore, the MS4 operators may evaluate their existing policies and procedures and use those policies and procedures in developing a regulatory mechanism;
- c. Develop and implement a plan to detect and address non-storm water discharges. EPA recommends that this plan contain procedures to identify the problem areas in the community, determine the source of the problem(s), remove the source if one is identified, and document the actions taken; and

- d. Inform public employees, businesses, and the general public of the hazards associated with illegal discharges and improper disposal of waste.

Guidance, including model ordinances, is available from EPA and other organizations to assist in the implementation of an illicit discharge detection and elimination program. These resources are available through EPA's BMP Menu website found at <http://www.epa.gov/npdes/stormwater/>.

The City has identified the following activities to accomplish this measure:

- Complete an updated MS4 system map;
- Adopt an ordinance prohibiting illicit discharges to the MS4;
- Develop procedures to detect and address illicit discharges to the MS4, and to address complaints from the public and educate employees to respond to reported problems; and
- Address illegal discharges through public education activities.

In addition to the activities set forth in the City's permit application, EPA is also requiring the City to conduct dry weather screening of storm water outfalls as required pursuant to 40 CFR 122.34(b)(2)(iv). The permit allows the City to review its existing program and update the program over time. EPA has outlined the expected scope of the illicit discharge program to be conducted by the City in Part II.B.3 of the permit

EPA is also proposing an additional requirement for the City to inventory all industrial facilities in their jurisdiction that discharge runoff to either the MS4s or directly to waters of the United States. The types of industrial facilities to be inventoried are those facility types listed in 40 CFR § 122.26(b)(14), and are summarized in Appendix D of this fact sheet. The inventory must consist of the facility name, facility location, outfall location, and NPDES permit status (*i.e.*, whether the facility has been permitted by EPA's NPDES Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity, # IDR05-0000 (MSGP); an individual NPDES permit, or does not have NPDES permit coverage.) EPA intends this inventory activity to be mandatory for all regulated MS4 operators in Idaho. Information gathered by this activity will be used by EPA to contact and educate those facility operators who may be unaware of the federal permitting requirements for discharges of industrial storm water. In addition, this information can be used by the City to identify sources that may be contributing pollutants to the MS4.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies such illicit discharge detection programs, and dry weather screening programs as approaches that can substantively achieve reductions in sediment, bacteria and nutrient loading to receiving waters.

***EPA requests comment on the breadth, scope and adequacy of these illicit discharge detection and elimination activities, in light of the other actions required by the permit.***

**4. Construction Site Storm Water Runoff Control (40 CFR §122.34(b)(4))**

MS4 operators are required to develop, implement and enforce a program to reduce pollutants in storm water runoff from construction activities that result in a land disturbance of greater than or equal to one acre. This program must also include controlling runoff from construction activity disturbing less than one acre if the construction is part of a larger common plan of development of sale that would disturb one acre or more.

Polluted storm water runoff from construction sites often flows to MS4s and ultimately is discharged into local rivers and streams. Sediment is usually the main pollutant of concern, as it has been demonstrated that sediment runoff rates from construction sites are typically 10 to 20 times greater than those of agricultural lands, and 1,000 to 2,000 times greater than those of forest lands. (64 FR 68728-68730, December 8, 1999) During a short period of time, construction sites can contribute more sediment to streams than can be deposited naturally during several decades. The resulting siltation, and the contribution of other pollutants from construction sites, can cause physical, chemical, and biological harm to nearby waters. For example, excess sediment can quickly fill rivers and lakes, requiring dredging and destroying aquatic habitats.

Although discharges from all construction sites disturbing more than one acre in Idaho are independently subject to the NPDES General Permit for Storm Water Discharges from Construction Activity, #IDR10-0000 (Construction General Permit or CGP) issued by EPA, this minimum program measure is necessary to enable the local MS4 operator to effectively and directly control construction site discharges into their MS4s. The regulations at 40 CFR §122.34(b)(4) contain four required program components. All regulated MS4 operators must incorporate the following elements into their local programs:

- a. An ordinance or other regulatory mechanism requiring proper sediment and erosion control, and proper waste management controls, at construction sites;
- b. Procedures for site plan review that considers potential water quality impacts;
- c. Procedures for site inspection and enforcement; and
- d. Procedures for the receipt and consideration of information submitted by the public.

In their permit application, the City identified the following activities:

- Develop an ordinance that specifically addresses construction site runoff;
- Initiate a construction site plan review and inspection process; and,
- Develop an information management system to track information from the public and track staff inspections of construction sites

The City must review and modify existing ordinance or develop a new local ordinance (or other requirements) to ensure that local requirements are substantially similar to EPA's Construction General Permit. To further encourage consistent implementation of federal and local construction site runoff requirements, this permit requires the City to provide information regarding the EPA Construction General Permit to representatives of proposed new development and redevelopment. This information sharing can be accomplished by distributing EPA's existing brochures and directing construction site operators to EPA's web-based information regarding the CGP requirements. (This CGP information can be found online at <http://www.epa.gov/npdes/stormwater/cgp>.) Alternatively, the City may develop other appropriate means of providing such information to operators of new development or redevelopment sites. The City must also ensure that its own construction projects comply with the CGP.

EPA recommends that the City optimize coordination between different municipal offices and departments. For example, proposed site plans may be reviewed by a local planning board or other office, but that review may not currently include an evaluation of water quality concerns. The City should enhance communication and information sharing between the various municipal offices to ensure efficiency. Timely inspection and appropriate enforcement of pollution controls at construction sites are also crucial to minimizing the discharge of pollutants from active construction sites. The City may determine how construction site plan review and inspection oversight is best accomplished within its organization(s).

In Part II.B.4 of the permit, EPA has outlined the scope of the required construction site runoff control program to comply with the minimum requirements of 40 CFR § 122.34(b)(4) and has incorporated the actions outlined by the City.

EPA encourages the City to work with the other MS4 operators to require consistent local requirements for construction projects throughout the area. The actions required by this section, when fully implemented, can successfully reduce sediment and other pollutants of concern jurisdiction wide. The purpose of these requirements is to minimize overall sediment loading discharges through the MS4 from active construction sites by requiring construction site operators to use appropriate control measures that are regularly inspected and enforced by City representatives.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies such construction site runoff control programs

and onsite source control activities as approaches that can substantively reduce sediment loading to receiving waters.

***EPA requests comment on the breadth, scope and adequacy of these construction site runoff control activities, in light of the other actions required by the permit.***

**5. Post Construction Storm Water Management in New and Redevelopment (40 CFR §122.34(b)(5))**

Post-construction storm water management controls are necessary because runoff from newly developed land can significantly affect receiving water quality. Specifically, as runoff flows over areas altered by development, it can pick up sediment and chemicals such as oil and grease, pesticides, heavy metals, and nutrients (*i.e.*, nitrogen and phosphorus). These pollutants often become suspended in runoff and are carried to receiving waters.

Post-construction storm water runoff also increases the quantity of water delivered to the receiving waters during storms. Increased impervious surfaces interrupt the natural cycle of gradual percolation of water through vegetation and soil. Instead, water is collected from surfaces such as asphalt and concrete, and routed to drainage systems where large volumes of runoff quickly flow to the nearest receiving water. The effects of this process include stream bank scouring and downstream flooding, which often lead to a loss of aquatic life and damage to property.

This control measure applies in areas undergoing new development or redevelopment and that disturb more than one acre of land, including projects that are less than one acre that are part of a larger common plan of development or sale that disturbs more than one acre. The term “redevelopment” refers to alterations of a property that change the “footprint” of a site or building in such a way that results in the disturbance of one or more acres. (64 Fed. Reg. at 68760, December 8, 1999.) Many studies indicate that prior planning and design to minimize pollutants in post-construction storm water discharges is the most cost-effective storm water management approach.

The MS4 operator must implement and enforce a program to reduce pollutants to the MEP in post-construction runoff from areas of new development and redevelopment. This measure applies, at a minimum, to newly developed project areas greater than or equal to one acre in size. The permittee must:

- a. Develop and implement locally appropriate strategies that include a combination of structural and/or nonstructural BMPs requirements. Non-structural requirements include, but are not limited to, planning, zoning, and other local requirements such as buffer zones. Structural controls include, but are not limited to, the use of storage, infiltration basins, or vegetative practices such as rain gardens or artificial wetlands;

- b. Adopt an ordinance or other regulatory mechanism to address post-construction discharges; and
- c. Ensure adequate long-term operation and maintenance of these BMPs.

In its permit application, the City of Middleton identifies that post construction controls are addressed through Middleton City Code 6-3-9; that the City of Boise Storm Water Management Design Manual has been adopted, and that operation and maintenance of BMPs are addressed through Middleton City Code 6-3-9B. The City's NPDES permit application outlines that the City will review the existing requirements for effectiveness, and will continue to implement and enforce their requirements development.

EPA encourages the City to consider using a variety of low impact development (LID) practices and green infrastructure for controlling storm water runoff volume and reducing pollutant loadings to receiving waters. In general, LID measures are more cost effective and require less maintenance than conventional, structural storm water controls. Information on LID can be found through the internet, in particular through the EPA website at <http://www.epa.gov/nps/lid/index.html>. Green infrastructure techniques infiltrate, evapotranspire or reuse stormwater, with significant utilization of soils and vegetations versus traditional conveyance and storage structures. Green infrastructure includes, but is not limited to, green roofs, rain gardens, vegetated swales, pocket wetlands, etc. See Memorandum to EPA Regional Administrators from Benjamin Grumbles, Assistant Administrator, re: Using Green Infrastructure to Protect Water Quality in Stormwater, CSO, Nonpoint Source, and other Water Programs, dated March 5, 2007. Information on green infrastructure can be found on EPA's website at <http://www.epa.gov/npdes/greeninfrastructure>.

Proper installation and maintenance of such permanent storm water controls are vital to reducing pollutant loading to receiving waters. The permit requires that the City develop the means to ensure effective installation and operation of such techniques.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies such post-construction discharge control programs that include vegetative practices, buffer zones, as well as proper operation and maintenance of permanent BMPs, as approaches that can substantively reduce sediment, bacteria and nutrient loading to receiving waters.

***EPA requests comment on the breadth, scope and adequacy of the post construction requirements and activities of Part II.B.5 of the permit, in light of the other actions required by the permit.***

**6. *Pollution Prevention and Good Housekeeping (40 CFR §122.34(b)(6))***

This control measure requires operators to implement an operation and maintenance program to prevent or reduce pollutant runoff from activities conducted by the municipality. The MS4 operator must examine and subsequently alter their own actions to reduce the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, storage and vehicle maintenance areas, that may be discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. Activities associated with maintenance of parks and open spaces, as well as fleet and building maintenance, must also be considered for possible water quality impacts. While this measure is meant primarily to improve or protect receiving water quality by improving municipal or facility operations, it can also result in a cost savings for the MS4 operator, since proper and timely maintenance of MS4s can help avoid repair costs from damage caused by age and neglect.

As part of this control measure, the City must evaluate existing maintenance activities, schedules, and inspection procedures for appropriate controls to reduce floating debris and other pollutants. Using this evaluation, the City must improve operations as necessary to reduce or eliminate polluted discharges from areas under their control, including, for example, from public roads, municipal parking lots, maintenance and storage yards, waste transfer stations, and salt/sand storage locations.

The permit does not specify particular housekeeping BMPs, nor does it specify a frequency for any BMPs. It is expected that the City will determine the appropriate housekeeping BMPs that are necessary to protect water quality, and will train their employees on proper techniques to ensure such activities are accomplished.

The City has identified in its application that it will develop a maintenance plan and maintenance schedule, and will conduct employee training.

EPA has proposed in Part II.B.6 that the City review and update their operations and maintenance programs to optimize continued water quality protection, and to provide annual training for appropriate employees regarding these optimum practices.

EPA has also proposed that the City develop site-specific storm water pollution prevention plans for the City maintenance/street department and the wastewater treatment plant. Storm water discharges from such industrial activities conducted by the City must be permitted, as these activities meet the definition of “stormwater associated with industrial activity” found at 40 CFR 122.26(b)(14); see Appendix D. EPA is proposing to authorize discharges from these City owned facilities under this permit. As an alternative, storm water discharges from the City’s operation of the maintenance facility and wastewater treatment plant can be authorized separately through EPA’s Multi-Sector General Permit.

These activities are consistent with Appendix A of the Lower Boise Implementation Plan, which identifies such good housekeeping programs that include maintenance of unpaved and gravel roads, street sweeping, better deicing practices, and better facility and grounds management as approaches that can substantively reduce sediment, bacteria and nutrient loading to receiving waters.

***EPA requests comment on the breadth, scope and adequacy of the operation and maintenance/good housekeeping requirements and activities of Part II.B.6 of the permit, in light of the other actions required by the permit.***

#### **7. *Discharges to Water Quality-Impaired Receiving Waters***

All NPDES permits must include requirements necessary to achieve state water quality standards. (See 40 CFR 122.44(d)). This permit contains narrative limits to achieve the Idaho water quality standards to the maximum extent practicable. Based on the water quality impairment in the Boise River due to sediment, bacteria and nutrients, EPA has proposed in Parts II.C and IV.A of the permit that the City begin a monitoring program to estimate and quantify pollutant loading from the City's MS4. The City must also identify in the first Annual Report how the specific actions taken through the SWMP will prevent the discharge of these pollutants to receiving waters. The pollutants of concern for the receiving waters in the Nampa Urbanized Area are sediment, nutrients and bacteria. Further discussion of the monitoring requirement is contained in Section V.F. The City's application contains a discussion of how the actions of the City's SWMP will effectively target the pollutants of concern; this discussion may be updated and included in the Annual Report(s) to reflect the effectiveness of the City's SWMP activities over the permit term.

#### **8. *Reviewing and Updating the SWMP***

The SWMP is the set of structural and nonstructural actions and activities used by the permittee to reduce the discharge of pollutants from the MS4 to the MEP and to protect water quality. Minor changes and adjustments to the various SWMP elements are expected and may be necessary to more successfully adhere to these goals and the requirements of this permit. EPA has determined that minor changes to the SWMP shall not constitute the need for permit modifications as defined in the regulations at 40 CFR § 122.6. Part II.D of the permit describes procedures to be used to perform additions and minor changes to the SWMP. The permit does not allow the City to remove elements in the SWMP that are required through permit conditions or regulatory requirements. Both EPA and IDEQ will review any changes to the SWMP requested by the City. If the requested changes are found to be major modifications to the permit, as defined in 40 CFR § 122.62(a), then EPA will notify the City and comply with permit modification procedures, including public notice procedures.

#### **9. *Transfer of Ownership, Operational Authority or Responsibility for SWMP Implementation***



Through Part II.E of the permit, EPA does not intend to mandate a permit modification should the City annex additional lands or accept the transfer of operational authority over portions of the MS4. Implementation of appropriate SWMP elements for these additions (annexed land or transferred authority) is required. The City must notify EPA of any such additions or transfers in the Annual Report(s). EPA may require a modification to the permit based on such new information pursuant to 40 CFR §§ 122.61 and 122.62.

#### **10. SWMP Resources**

Part II.F of the permit requires the City to provide adequate support to implement SWMP activities. Compliance with Part II.F will be demonstrated by the City's ability to fully implement the SWMP and other permit requirements as scheduled. The permit does not require specific funding or staffing levels, thus providing the City the ability and incentive to adopt the most efficient and cost effective methods to comply with permit requirements.

#### **E. Schedule for SWMP Implementation and Compliance**

Part III of the permit summarizes the schedule for SWMP implementation and compliance.

#### **F. Monitoring, Recordkeeping and Reporting Requirements**

40 CFR §122.34(g) requires MS4 operators to evaluate program compliance, the appropriateness of BMPs in their SWMPs, and progress towards meeting their SWMP goals. These requirements have been included in Part IV of the permit.

Although EPA's Phase II storm water regulations do not explicitly require MS4s to conduct analytical monitoring, EPA acknowledges that such water quality monitoring may be necessary in order to support documentation of compliance with permit conditions and/or water quality standards. EPA expects that such monitoring will be done in identified locations for relatively few pollutants of concern. (See 64 FR 68769, December 8, 1999). In addition, where TMDLs have been established, NPDES permits must contain BMPs to accomplish the applicable WLAs, as well as monitoring to measure whether those BMPs are sufficient to meet the required WLA, as described in the 2002 EPA Memo discussed above.

Where an MS4 discharges directly to waters of the U.S., EPA has determined that monitoring of both municipal storm water discharges and surface water quality is appropriate in the Nampa and Boise Urbanized Areas, given the impairment listings for water bodies receiving the City's discharges, and the current lack of information regarding the quality and quantity of the MS4 discharges. Monitoring of storm water outfalls will characterize the quality of MS4 discharges, and will be used to establish a baseline from which EPA can

evaluate the effectiveness of controls required in the permit. Combined with flow measurements, approximate pollutant loading from the MS4 can be estimated, which will be used by IDEQ to refine the TMDL assessments. Monitoring information collected by the City will be used by EPA and IDEQ to evaluate the overall success of the SWMP, define what adjustments should be made to the SWMP in future permit terms, and provide new data to allow IDEQ to refine the TMDLs for the receiving waters in the Nampa Urbanized Area.

In Part IV.A of the permit, EPA has proposed that the City of Middleton develop a monitoring program to estimate pollutant loading from the MS4, to assess control measure effectiveness and to identify areas of the MS4 requiring additional controls. EPA has identified monitoring objectives and specific minimum parameters and frequency to be monitored based on the pollutants of concern for waters within the Middleton jurisdiction as identified by IDEQ in its 2002 Integrated Report. EPA's *NPDES Storm Water Sampling Guidance Document* (EPA 833-B-92-001) provides detailed guidance for the basic elements of storm water monitoring program design. The City must also develop a quality assurance plan before starting any monitoring effort. The City may identify the specific locations for sampling, provided the program meets the minimum expectations as outlined in the permit. EPA encourages the City of Middleton to work with the regulated MS4s and other partners where possible to accomplish storm water outfall and water quality monitoring.

***EPA requests public comment on all aspects of the monitoring program as proposed in the permit. Specifically EPA seeks input regarding the scope and breadth of the proposed surface water and discharge monitoring program for the City of Middleton, and specific recommendations for appropriate data collection activities to be conducted.***

Part IV.B requires the permittee to keep all required records required by this permit for a period of at least five years. Records must be submitted only when requested by EPA. The City's SWMP materials must also be available to the public; MS4 operators may charge a reasonable fee for copies, and may require a member of the public to provide advance notice of their request. As previously mentioned, the City will make their program materials available to the public electronically via a website within the term of this permit.

Part IV.C of the permit describes the contents of the Annual Reports, as required by 40 CFR §122.34(g)(3). EPA is requiring these reports to be submitted to both EPA and IDEQ at the addresses listed in Part IV.D. The Annual Reports must contain an evaluation of the SWMP for compliance with the terms of the permit, the appropriateness of the identified BMPs, and progress towards achieving their measurable goals. The Annual Report must also contain a summary of any information that has been collected and analyzed, including any and all types of data and discharge monitoring reports. The City must indicate what activities are planned for the next reporting cycle, and discuss any changes to either BMPs or measurable goals, and if necessary must indicate if any minimum control measure or measurable goal is the responsibility of another entity.

Appendix E of this fact sheet contains a suggested format for the Annual Report. To conserve resources, EPA will accept the Annual Report document in a readily accessible electronic format, such as Adobe Acrobat or other commonly available word processing

program, and the documents may be sent to EPA on CD-ROM. The City should note that the signed certification statement required for all reports submitted to EPA must be printed and submitted in hard copy. Any documents comprising the Annual Report may accompany the signed certification statement and be submitted electronically on CD-ROM.

***EPA requests comment on the scope and breadth of all monitoring and reporting requirements contained in this permit, in light of the other actions required by this permit.***

#### **G. Standard Permit Conditions**

Parts V and VI of the permit contain standard regulatory language that must be included in all NPDES permits, consistent with 40 CFR § 122.41. Because they are regulations, they cannot be challenged in the context of an NPDES permit action. This standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements.

### **VII. Other Legal Requirements**

#### **A. Endangered Species Act**

The Endangered Species Act requires federal agencies to consult with the National Oceanic and Atmospheric Administration – National Marine Fisheries Service (NOAA-Fisheries) and the U.S. Fish and Wildlife Service (USFWS) regarding potential effects an action may have on listed endangered species.

The Snake River Fish and Wildlife Office of the USFWS published its Semi-Annual Species List Update on June 1, 2008 (File #600.1501 14420-2008-SL-0354). This list indicates that there are no listed or proposed endangered or threatened species, or critical habitat, for Canyon County.

In an E-mail message dated May 15, 2006, Ed Murrell of NOAA-Fisheries stated that there are no threatened or endangered species under NOAA-Fisheries' jurisdiction in the Boise drainage.

EPA has therefore determined that the issuance of this NPDES permit will have no effect on any endangered or threatened species located in Canyon County.

EPA will provide USFWS and NOAA Fisheries with copies of the draft permit and fact sheet during the public notice period. Any comments received from these agencies regarding this determination will be considered prior to issuance of this permit.

## **B. Essential Fish Habitat**

Essential fish habitat (EFH) is the waters and substrate (sediments, etc.) necessary for fish to spawn, breed, feed, or grow to maturity. The Magnuson-Stevens Fishery Conservation and Management Act (January 21, 1999) requires EPA to consult with the NOAA-Fisheries when a proposed discharge has the potential to adversely affect (reduce quality and/or quantity of) EFH. Because of the location of these municipal storm water discharges, EPA has tentatively determined that the issuance of these permits will not affect any EFH species in the vicinity of the discharges, therefore consultation is not required for this action.

## **C. National Historic Preservation Act**

With regard to the National Historic Preservation Act, EPA believes that the reduction of pollutants in runoff from the MS4 will not result in the disturbance of any site listed or eligible for listing in the National Historic Register. Therefore, EPA believes that the actions associated with this permit are in compliance with the terms and conditions of the National Historic Preservation Act. If the City of Middleton engages in any activity which meets all of the following criteria, the City must consult with and obtain approval from the State Historic Preservation Office prior to initiating the activity:

- 1) the permitted entity is conducting the activity in order to facilitate compliance with this permit;
- 2) the activity includes excavation and/or construction; and
- 3) the activity disturbs previously undisturbed land.

Some examples of activities subject to this permit condition and the above criteria include, but are not limited to: retention/detention basin construction; storm drain line construction; infiltration basin construction; dredging; and stabilization projects (*e.g.*, retaining walls, gabions). The requirement to submit information on plans for future earth disturbing is not intended for activities such as maintenance and private development construction projects.

## **D. State Certification of the Draft Permit**

Concurrent with the public notice of today's draft permit, EPA is formally requesting state certification of the permit, as required by Section 401(a)(1) of the CWA 33 USC § 1341 (a)(1), and 40 CFR §124.53. IDEQ has provided a draft certification, which is included in Appendix C of this fact sheet. Persons wishing to comment on the draft State Certification should submit written comments by the public notice expiration date indicated at the beginning of this fact sheet to: Regional Administrator, Idaho Department of Environmental Quality, Boise Regional Office, 1445 North Orchard, Boise, ID 83720

## References Used in this Permitting Decision

National Oceanic and Atmospheric Administration's Western Regional Climate Center  
<http://www.wrcc.dri.edu/>

U.S. EPA, 2006. *National Management Measures to Control Nonpoint Source Pollution from Urban Areas*, EPA-841-B-05-004, Office of Water.

U.S. EPA, 2004. *The Use of Best Management Practices in Urban Watersheds*, EPA-600-R-04-184, Office of Research and Development.

U.S. EPA, 2002. Memorandum: *Establishing Total Maximum Daily Load Wasteload Allocations for Storm Water Sources and NPDES Permit Requirements Based on Those WLAs*, Office of Water, November 2002.

U.S. EPA, October 2000. *National Menu of BMPs for Storm Water Phase II*  
<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm>

U.S. EPA, October 2001. *Measurable Goals Guidance for Phase II Small MS4s*.  
<http://cfpub.epa.gov/npdes/stormwater/measurablegoals/index.cfm>

U.S. EPA, *Regulations for Revision of the Water Pollution Control Program Addressing Storm Water Discharges (e.g, Phase II Storm Water Regulations)*, 64 Fed. Reg. 68722 -68851, December 8, 1999

- Discussion of the impacts of urban runoff on waters of the United States: 64 FR 68725-27
- Discussion of Construction site impacts : 64 Fed. Reg. at 68728-68730
- Summary of findings from the Nationwide Urban Runoff Program: 64 FR 68726
- Discussion of narrative effluent limitations: 64 Fed. Reg. 68753
- Discussion of Maximum Extent Practicable standard for MS4s: 64 FR 68754
- Effects of construction activities on water quality: 64 FR 68728 – 68731
- Post-Construction Storm Water Management: 64 FR 68725-68728 and 68759

40 CFR Part 122, specifically 40 CFR §§ 122.30-35.

U.S. EPA 1983. *Results of the Nationwide Urban Runoff Program, Executive Summary*, Office of Water, Washington D.C.

U.S. EPA 1992. *NPDES Stormwater Sampling Guidance Document*, Office of Water, Washington D.C. EPA 833-B-92-001

U.S. EPA, 1999. *Report to Congress on the Phase II Storm Water Regulations*, Office of Water, Washington D.C. EPA-833-R-99-001

State of Idaho's Water Quality Standards:

Idaho Department of Environmental Quality Website:

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/monitoring/standards.cfm](http://www.deq.state.id.us/water/data_reports/surface_water/monitoring/standards.cfm)

IDAPA 58.01.02: <http://adm.idaho.gov/adminrules/rules/idapa58/0102.pdf>

Idaho's 2002 Integrated Report [CWA §§ 303(d) and 305(b)]:

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/monitoring/integrated\\_report.cfm](http://www.deq.state.id.us/water/data_reports/surface_water/monitoring/integrated_report.cfm)

Idaho Department of Environmental Quality's Lower Boise River Subbasin Assessment, 1999:

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_lower/boise\\_river\\_lower.cfm](http://www.deq.state.id.us/water/data_reports/surface_water/tmdls/boise_river_lower/boise_river_lower.cfm)

Implementation Plan for the Lower Boise TMDL, December 2003

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_lower/boise\\_river\\_lower\\_plan\\_entire.pdf](http://www.deq.state.id.us/water/data_reports/surface_water/tmdls/boise_river_lower/boise_river_lower_plan_entire.pdf)

Indian Creek Subbasin Assessment, December 2001

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_tribs/boise\\_river\\_tribs\\_fivemile\\_tenmile\\_indian.pdf](http://www.deq.state.id.us/water/data_reports/surface_water/tmdls/boise_river_tribs/boise_river_tribs_fivemile_tenmile_indian.pdf)

Lower Boise River Nutrient Subbasin Assessment, December 2001

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_tribs/boise\\_river\\_nutrient.pdf](http://www.deq.state.id.us/water/data_reports/surface_water/tmdls/boise_river_tribs/boise_river_nutrient.pdf)

Mason Creek Subbasin Assessment,, December 2001.

[http://www.deq.state.id.us/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_tribs/boise\\_river\\_tribs\\_mason\\_sandhollow.pdf](http://www.deq.state.id.us/water/data_reports/surface_water/tmdls/boise_river_tribs/boise_river_tribs_mason_sandhollow.pdf)

Idaho's Catalog of Stormwater Best Management Practices for Idaho Cities and Counties

[http://www.deq.state.id.us/water/data\\_reports/storm\\_water/catalog/](http://www.deq.state.id.us/water/data_reports/storm_water/catalog/)

Cleland, B. 2007. TMDL Development from the "Bottom Up" – Part IV: Connecting to Stormwater Management Programs. National TMDL Science and Policy 2007. WEF Speciality Conference. Bellevue, WA.

Pitt, R., M. Lalor, R. Field, D.D. Adrian and D. Barbe. 1993. *Investigation of Inappropriate Pollutant Entries into Storm Drainage Systems: A User's Guide*. US EPA Office of Research and Development, EPA/600/R-92/238

New England Interstate Water Pollution Control Commission, 2003. *Illicit Discharge Detection and Elimination Manual: A Handbook for Municipalities*.

Center for Watershed Protection, and Pitt, R.M., October 2004. *Illicit Discharge Detection and Elimination – A Guidance Manual for Program Development and Technical Assessments*.

Low Impact Development Information: <http://www.epa.gov/owow/nps/lid/lid.pdf>

Panhandle Stormwater and Erosion Education Program: <http://plrcd.org/SEEP/index.htm>

## Appendix A - Statutory and Regulatory Background

Storm water is the surface runoff that results from precipitation events and snow melt. Storm water flowing across land surfaces may contain or mobilize high levels of contaminants. Under most natural conditions, storm water runoff is slowed and filtered as it flows through vegetation and wetlands. These flows soak into the ground, gradually recharging groundwater, and eventually seep into receiving waters.

Urban development has significantly altered the natural infiltration capability of the land, and often generates a host of pollutants that are associated with the activities of dense populations. This developed area in turn causes an increase in storm water runoff volumes and pollutant loadings in the storm water discharged to receiving waters. Urban development increases the amount of impervious surface in a watershed, as naturally vegetated areas are replaced with parking lots, roadways, and commercial, industrial, and residential structures. These surfaces inhibit rainfall infiltration into the soil and reduce evaporation and transpiration, thereby increasing the amount of precipitation which is converted to runoff. Storm water and snow melt runoff washes over impervious surfaces, picking up pollutants while gaining speed and volume because of the inability to disperse and filter into the ground.<sup>6</sup>

Uncontrolled storm water discharges from areas of urban development can negatively impact receiving waters by changing the physical, biological and chemical composition of the water, resulting in an unhealthy environment for aquatic organisms, wildlife and humans. The Nationwide Urban Runoff Program (NURP), conducted by EPA between 1978 through 1983, demonstrated that storm water runoff is a significant source of pollutants. The study indicated that discharges from separate storm sewer systems draining from residential, commercial and light industrial areas carried more than 10 times the annual loadings of total suspended solids (TSS) than discharges from municipal sewage treatment plants providing secondary treatment. The study also identified a variety of other contaminants, such as oil and grease, copper, lead, and zinc, that were detected frequently at levels of concern. Numerous other studies and reports have confirmed the average pollutant concentration data collected in the NURP study.<sup>7</sup>

EPA's report entitled "National Water Quality Inventory, 1998 Report to Congress" concludes that storm water related discharges from both non-point and point sources remain the leading causes of existing water quality impairments.

More information and copies of documents with additional information on environmental impacts of storm water discharges are available via EPA's storm water web page, <http://www.epa.gov/npdes/stormwater>.

In 1987, Congress amended the Clean Water Act (CWA) and added Section 402(p). This section requires a comprehensive program for addressing storm water discharges through the National Pollutant Discharge Elimination System (NPDES) program. Specifically, CWA §402(p)(1) and (2) require NPDES discharge permits for the following five categories of storm water discharges:

1. Discharges permitted prior to February 4, 1987;
2. Discharges associated with industrial activity;
3. Discharges from large Municipal Separate Storm Sewer Systems (MS4s) serving a population of 250,000 or more;

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<sup>6</sup> 64 Fed. Reg. 68725-27 (December 8, 1999)

<sup>7</sup> U.S. EPA 1983. *Results of the Nationwide Urban Runoff Program, Executive Summary*, Office of Water, Washington D.C.; and 64 FR 68726 (December 8, 1999).

4. Discharges from medium MS4s serving a population of 100,000 but less than 250,000; and
5. Discharges judged by the NPDES permitting authority to be significant contributor of pollutants or which contribute to a violation of a water quality standard.

CWA §402(p)(3) requires that industrial storm water discharges meet technology-based requirements and any more stringent requirements necessary to meet water quality standards. Municipal storm water discharges, however, are held to different standards. This section also specifies a new technology-related level of control for pollutants in the municipal discharges, namely, control to the maximum extent practicable (MEP). Permits for MS4 discharges may be issued on a system or jurisdiction-wide basis, and must effectively prohibit non-storm water discharges into the sewer system. Such permits must also require controls to reduce pollutant discharges to the maximum extent practicable including best management practices (BMPs), and other provisions as the EPA determines to be appropriate for the control of such pollutants. Currently, EPA believes that water quality-based controls, implemented with BMPs through an iterative process, are appropriate for the control of pollutants for storm water discharges from municipalities.

CWA §402 (p)(5) required EPA to conduct additional studies on the impacts of storm water and submit a report to Congress. The purpose of the report was to identify unregulated sources of storm water discharges, determine the nature and extent of pollutants in the discharges, and establish procedures and methods to mitigate the impacts of those discharges on water quality. EPA published this report on December 8, 1999,<sup>8</sup> and recommended the following:

- a. Establish a phased compliance with water quality standards approach for discharges from municipal separate storm sewer systems, with priority on controlling discharges from municipal growth and development areas;
- b. Clarify that the MEP standard should be applied in a site-specific, flexible manner, taking into account cost considerations as well as water quality effects;
- c. Provide an exemption from the NPDES program for storm water discharges from industrial facilities where there are no activities where significant material is exposed to storm water;
- d. Provide extensions to the statutory deadline to complete implementation of the NPDES program for the storm water program;
- e. Target urbanized areas for the requirements in the NPDES program for storm water; and
- f. Provide control of discharges from inactive and abandoned mines located on federal lands.

CWA §402(p)(6) requires that EPA provide a comprehensive program that designates and controls additional sources of storm water discharges to protect water quality. EPA regulations promulgated under the authority of section 402(p)(6) are commonly referred to as the “Phase II storm water regulations” and were published by EPA on December 8, 1999 (64 Fed. Reg. 68722-68851).<sup>9</sup> Additional sources regulated during this second phase of the storm

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<sup>8</sup> Report to Congress on the Phase II Storm Water Regulations, EPA-833-R-99-001.

<sup>9</sup> 40 CFR §§ 122.30-35.

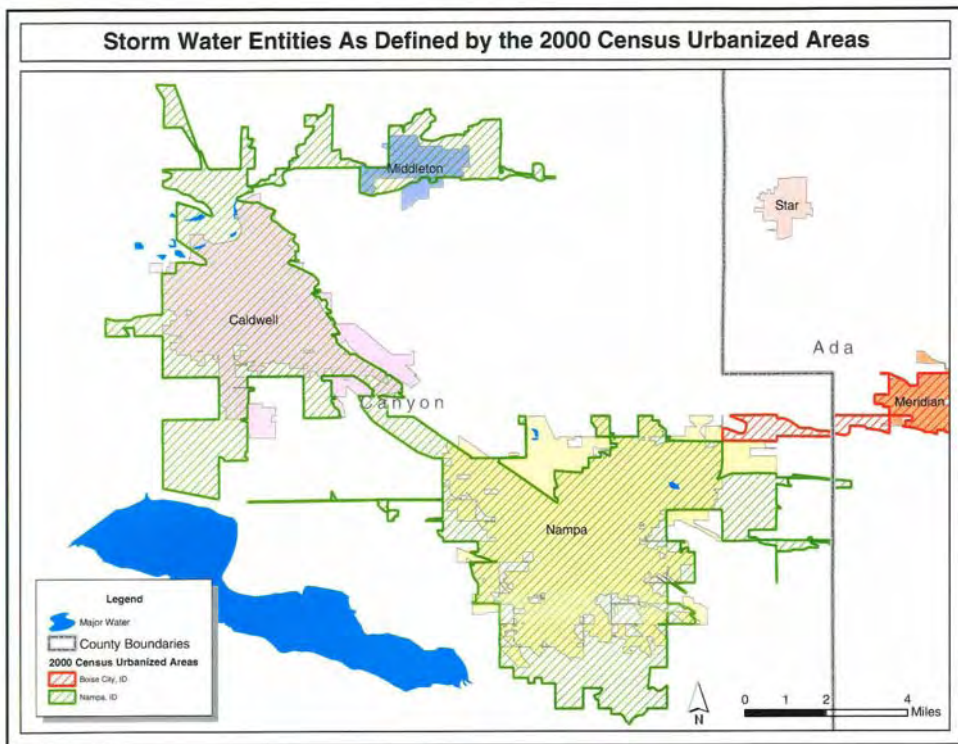
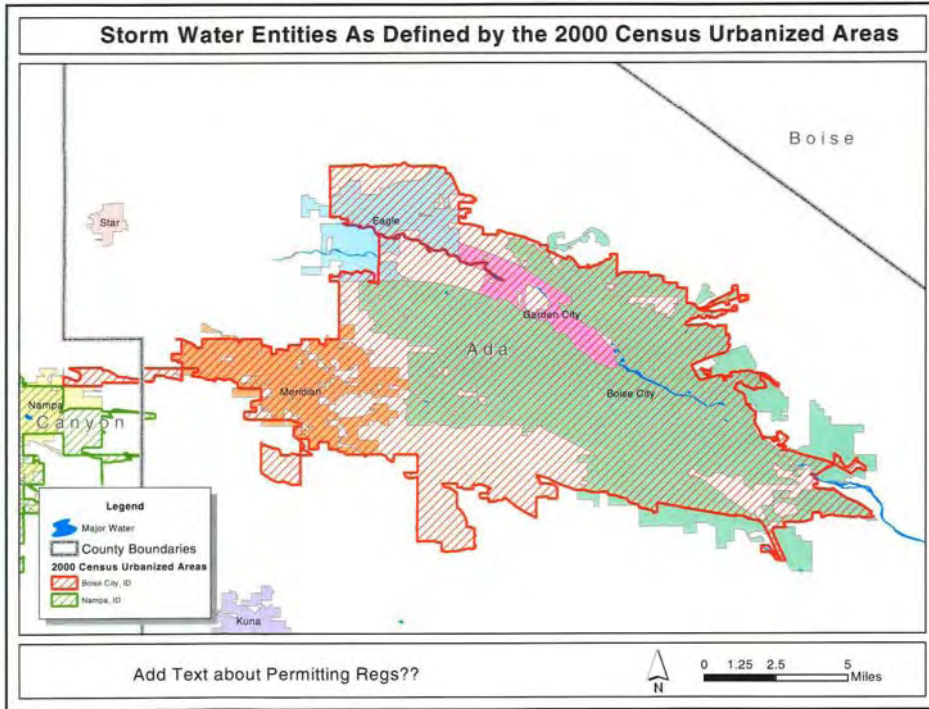


water program include municipal storm water discharges from urbanized areas defined by the Decennial Census, and discharges from construction activities with land disturbances greater than or equal to one acre and less than five. (Requirements for construction-related discharges are addressed through other NPDES permits issued by EPA Region 10; more information on requirements for storm water from construction sites can be found at <http://www.epa.gov/npdes/stormwater/cgp>.)

The draft permit associated with this fact sheet implements the requirements of the Phase II storm water program for small municipal separate storm sewer systems in urbanized areas, and requires the permittee to initiate a comprehensive storm water quality management program. As provided under 40 CFR §122.34(a), the permit allows up to five years during this first permit term for the permittee to fully develop and implement the storm water management program.

### Appendix B – Nampa and Boise Urbanized Area Maps

Detailed maps of the Nampa and Boise Urbanized Areas can be viewed on-line at [http://cfpub1.epa.gov/npdes/storm Water/urbanmapresult.cfm?state=ID](http://cfpub1.epa.gov/npdes/storm%20Water/urbanmapresult.cfm?state=ID)



## Appendix C – Draft Clean Water Act § 401 Certification from Idaho DEQ



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY



1445 North Orchard • Boise, Idaho 83706 • (208) 373-0550

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

May 27, 2008

Michael J. Lidgard  
Office of Water, Region 10  
U.S. Environmental Protection Agency  
NPDES Permits Unit Manager  
1200 Sixth Avenue, OW 130  
Seattle, Washington 98101

Re: NPDES Permit Nos.  
IDS-028100, City of Middleton  
IDS-028118, City of Caldwell  
IDS-028126, City of Nampa  
IDS-028134, Canyon Highway District  
IDS-028142, Nampa Highway District  
IDS-028151, Notus Parma Highway District  
IDS-028177, Idaho Transportation Department District #3  
IDS-028185, Ada County Highway District

Dear Mr. Lidgard:

The Idaho Department of Environmental Quality (IDEQ) has reviewed the preliminary draft NPDES permits dated April 2008 for the referenced Municipal Separate Storm Sewer Systems within the Boise and Nampa urbanized areas. This letter serves as the State of Idaho's draft water quality certification, pursuant to the provisions of Section 401(a)(1) of the Federal Water Pollution Control Act (Clean Water Act), as amended, 33 USC Section 1341 (a)(1) and Idaho Code Sections 39-101 et. seq., and 39-3601 et. seq.

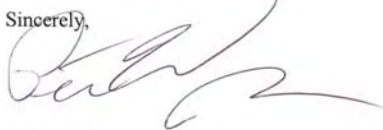
IDEQ certifies that if the permittees comply with the terms and conditions imposed by the permits referenced above, then there is reasonable assurance that the discharges will comply with applicable requirements of Sections 301, 302, 303, 306 and 307 of the Clean Water Act.

This certification does not constitute authorization of the permitted activities by any other state or federal agency or private person or entity. This certification does not excuse the permit holder from the obligation to obtain any other necessary approvals, authorizations or permits, including without limitation, the approval from the owner of a private water conveyance system, if one is required, to use the system in connection with the permitted activities.

Michael Lidgard  
May 27, 2008  
Page 2

After the public comment period and upon receipt of the proposed final permits, DEQ will issue a final water quality certification. DEQ reserves the right to revise this certification based upon public comments or if the proposed final permits are substantially different from the preliminary draft permits. If you have any questions or need further information please contact Craig Shepard or me at 373-0550.

Sincerely,



Pete Wagner  
Regional Administrator

cc: Doug Conde, Deputy Attorney General  
Barry Burnell, Water Quality Division Administrator  
Craig Shepard, DEQ – Boise Regional Office

## Appendix D– Sectors of Industrial Activity That Require NPDES Permit Coverage for Storm Water Discharges

The term “Storm Water Discharges Associated with Industrial Activity,” defined in federal regulations at 40 CFR §122.26(b)(14)(i)-(xi), indicates which industrial facilities are potentially subject to the storm water permit program. Definitions of the 11 industrial categories use either SIC (Standard Industrial Classification) codes or narrative descriptions to characterize the activities. Table D-1 is a summary list of industrial activities listed in the regulations, provided for informational purposes only. Table D-2 contains a decision tree for determining which facilities must have NPDES permit coverage. More information can be obtained through EPA’s website at <http://www.epa.gov/npdes/stormwater/msgp> or by contacting EPA Region 10 directly.

### Category (i)

Facilities subject to a storm water effluent limitation guideline, new source performance standards, or toxic pollutant effluent standards under 40 CFR subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi)). These types of facilities include the following :

#### 40 CFR Subchapter N

405	Dairy products processing
406	Grain mills
407	Canned & preserved fruits & vegetable*
408	Canned & preserved seafood processing
409	Beet, crystalline & liquid cane sugar
410	Textile mills
411	Cement manufacturing
412	Feedlots
414	Org. Chem plastics & synthetic fibers
415	Inorganic chemical manufacturing *
417	Soap and detergent manufacturing
418	Fertilizer manufacturing
419	Petroleum refining
420	Iron and steel manufacturing
421	Nonferrous metal manufacturing
422	Phosphate manufacturing *
423	Steam electric power
424	Ferroalloy manufacturing *
425	Leather tanning and finishing
426	Glass manufacturing *
427	Asbestos manufacturing
428	Rubber manufacturing
429	Timber products processing
430	Pulp, paper, and paperboard*
431	Builder’s paper and board mills
432	Meat products
433	Metal finishing
434	Coal Mining *
436	Mineral mining & processing *
439	Pharmaceutical manufacturing *
440	Ore mining & dressing *
443	Paving and roofing materials
446	Paint formulating
447	Ink formulating
455	Pesticide Chemicals *
458	Carbon Black manufacturing
461	Battery manufacturing

- 463 Plastics molding and forming
- 464 Metal molding and casting
- 465 Coil coating
- 466 Porcelain enameling
- 467 Aluminum forming
- 468 Copper forming \*
- 469 Electrical & electronic component
- 471 Nonferrous metal forming & powders

\* some facilities in group do not have limits or standards, see 40 CFR subchapter N to verify

**Category (ii)**

Facilities classified by the following SIC codes:

- 24 lumber and wood products (except 2434 wood kitchen cabinets, see (xi))
- 26 paper & allied products (except 265 paperboard containers, 267 converted paper, see (xi))
- 28 chemicals & allied products (except 283 drugs, see (xi))
- 29 petroleum & coal products
- 311 leather tanning & finishing
- 32 stone, clay & glass production (except
- 323 products of purchased glass, see (xi))
- 33 primary metal industry
- 3441 fabricated structural metal
- 373 ship and boat building and repair

**Category (iii) Mineral Industry**

Facilities classified as SIC codes 10-14 including active or inactive mining operations, and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations (inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim).

SIC Code

- 10 metal mining (metallic mineral/ores)
- 12 coal mining
- 13 oil and gas extraction
- 14 non-metallic minerals except fuels

**Category (iv) Hazardous Waste**

Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of the Resource Conservation and Recovery Act (RCRA).

**Category (v) Landfills**

Landfills, land application sites, and open dumps that receive or have received any industrial waste (waste that is received from any of the facilities described under categories (i) - (xi)) including those that are subject to regulations under Subtitle D of RCRA.

**Category (vi)**

Facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as SIC 5015 (used motor vehicle parts) and 5093 (scrap and waste materials).

**Category (vii) Steam Electric Plants**

Steam electric power generating facilities, including coal handling sites.

**Category (viii) Transportation**

Transportation facilities classified by the SIC codes listed below which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under categories (i)-(vii) or (ix)-(xi) are associated with industrial activity, and need permit coverage.

SIC Code

- 40 railroad transportation
- 41 local and interurban passenger transit
- 42 trucking & warehousing (except 4221-25, see (xi))
- 43 US postal service
- 44 water transportation
- 45 transportation by air
- 5171 petroleum bulk stations and terminals

**Category (ix) Treatment Works**

Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with section 405 of the Clean Water Act.

**Category (x) Construction**

Note: Construction activity in Idaho is permitted through the EPA Construction General Permit, and is not listed here as an industrial activity to be tracked by the MS4 operator(s).

**Category (xi) Light industry**

Facilities classified by the following SIC codes:

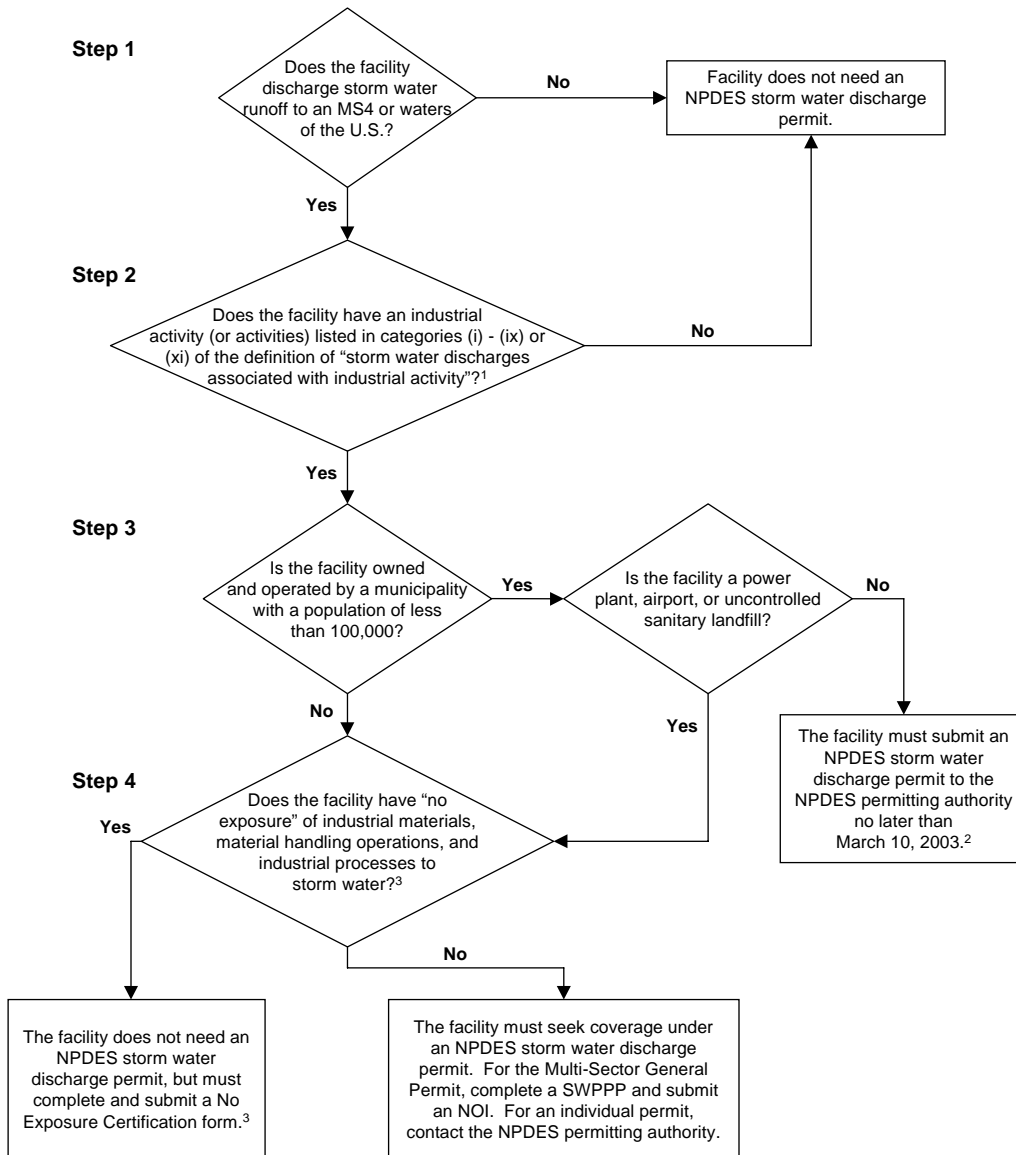
SIC Code

- 20 food and kindred product
- 21 tobacco products
- 22 textile mill products
- 23 apparel and other textile product
- 2434 wood kitchen cabinets
- 25 furniture and fixtures
- 265 paperboard containers and boxes
- 267 miscellaneous converted paper products
- 27 printing and publishing
- 283 drugs
- 285 paints and allied products
- 30 rubber and miscellaneous plastic
- 31 leather and products (except 311)
- 323 products of purchased glass
- 34 fabricated metal products (except 3441)
- 35 industrial machinery and equipment
- 36 electronic and other electric equipment
- 37 transportation equipment (except 373)
- 38 instruments and related products
- 39 miscellaneous manufacturing
- 4221 farm product storage
- 4222 refrigerated storage
- 4225 general warehouse and storage

(and which are not otherwise included in categories (ii) - (x)) with storm water discharges from all areas (except access roads and rail lines) where material handling equipment, or activities, raw materials, immediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate produce, finished product, by-product, or waste product.

**Table D-2**

**Industrial Facilities Storm Water Program Permitting Decision Tree**



1. See 40 CFR 122.26(b)(14)(i)-(ix), (xi).  
 2. See new 122.26(e)(1)(ii). A permit is required unless there is a condition of no exposure as defined at new 122.26(g).  
 3. See new 122.26(g) for the definition of "no exposure" and the certification requirements.

**NOTE:** For information about industrial Storm Water Pollution Prevention Plans (SWPPPs), Notices of Intent (NOI), industrial No Exposure Certification, etc. can contact the EPA Region 10 Storm Water Program at (800) 424-4372, extension 6650 or visit the website <http://www.epa.gov/npdes/stormwater/msgp>.



## Appendix E - Suggested Annual Report Format

EPA provides the following format as a possible means of submitting the Annual Report information required under Part IV.C. of this permit. The Annual Report information may be submitted to EPA and IDEQ in electronic format on CD-ROM(s) using universally available document formats, such as Microsoft Word, Adobe Acrobat PDF or other available means. However, please note that while the Annual Report text can be submitted in electronic format, the required certification statement must be signed and dated in hard copy by the permittee as directed in Part VI.E. of this permit. *Other guidance on the required elements of the Annual Report is provided in italics below.*

### A. PERMITTEE INFORMATION

Permit Number: \_\_\_\_\_

Permittee: \_\_\_\_\_

Mailing Address:  
\_\_\_\_\_

City, State and Zip Code:  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Have any areas been added to the MS4 due to annexation or other legal means? YES NO  
(If yes, include updated map.)

### B. REPORTING PERIOD \_\_\_\_\_ to \_\_\_\_\_

### C. STATUS OF STORM WATER MANAGEMENT PROGRAM

For each of the six minimum control measures in Part II.B. regarding public education, public participation/involvement, illicit discharge detection and elimination, construction runoff control, post-construction runoff control, and good housekeeping for municipal operations) address each of the following items. The status of each program area must be addressed, even if the program area was completed and fully implemented in a previous reporting year or has not yet been implemented yet. (Depending on the size of the municipality and the complexity of the programs, the attachments for this section will likely comprise 1 to 5 pages per control measure.)

- a. General summary of accomplishments to date.
- b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP for each minimum control measure.
- c. Results of any information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at

reducing the discharge of pollutants to the maximum extent practicable. *Examples of data sources other than monitoring data include survey/polling results, miles of riverbank cleaned up, number of illicit discharge complaints addressed; number of hits on a website before and after a public education campaign, etc.*

- d. A summary of the number and nature of inspections and formal enforcement actions performed.
- e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure. *Provide a short summary based on the Storm Water Management Program implementation schedule. .*
- f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application. *Significant changes that involve replacing or deleting an ineffective or unfeasible BMP may require permit modification as outlined in Part II.D .*
- g. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable. *Another entity may be relied on to perform requirements of your MS4 permit. However, as the permittee, the MS4 operator remains liable for compliance with the terms of the permit if the requirements are not fulfilled. The permittee must complete this Annual Report for the geographic areas covered under its permit, for all program areas, even if one or more program elements is being performed by another entity.*

**D. OTHER REQUIRED DOCUMENTS AND REPORTS**

Include documents such as the Structural Control Plan, monitoring reports, etc.

**E. CERTIFICATION**

“I 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 gathered and evaluated 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.”

Signature of Permittee (legally responsible person)

Date Signed

Name & Title (printed)

Note: Collection of Annual Report information required under 40 CFR §122.34(g)(3) is covered under Paperwork Reduction Act Information Collection Request #1820.03, OMB NO.: 2040-0211, Expiration Date: 06/30/2006.

### Appendix F – Watershed Maps for Lower Boise River, Indian Creek and Mason Creek

These maps illustrate the general location of major water bodies relative to the City of Middleton. These maps were excerpted from the following IDEQ documents:

Lower Boise River TMDL Subbasin Assessment, Total Maximum Daily Loads (revised 1999)

[http://www.deq.idaho.gov/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_lower/boise\\_river\\_lower\\_noapps.pdf](http://www.deq.idaho.gov/water/data_reports/surface_water/tmdls/boise_river_lower/boise_river_lower_noapps.pdf)

Indian Creek Subbasin Assessment (2001) and the Mason Creek Subbasin Assessment (2001),:

[http://www.deq.idaho.gov/water/data\\_reports/surface\\_water/tmdls/boise\\_river\\_tribs/boise\\_river\\_tribs.cfm](http://www.deq.idaho.gov/water/data_reports/surface_water/tmdls/boise_river_tribs/boise_river_tribs.cfm)

