

February 15, 2013

U.S. EPA Region 10 Office of Water Attn: Ms. Julie Congdon - Storm Water Program 1200 6th Avenue (OW-130) Seattle, Washington 98101

Re: MS4 2010 Annual Report

Dear Ms. Congdon:

The Idaho Transportation Department, District 1 hereby submits the enclosed MS4 Permit No. IDS-028223 Annual Report for 2012 and certifies the following:

"I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties of submitting false information, including the possibility of fine and imprisonment for knowing violations."

Please feel free to call me at 208-772-1200 if you have any questions or concerns regarding this report.

Sincerely,

Idaho Transportation Department

John Perfect, P.E. Operations Engineer

Cc: Idaho Department of Environmental Quality

Enclosure: MS4 2012 Annual Report

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) EPA NPDES PERMIT NO.: IDS-028223 2012 ANNUAL REPORT

IDAHO TRANSPORTATION DEPARTMENT
DISTRICT ONE
Kootenai County
Coeur d'Alene, Idaho

SUBMITTED BY:
IDAHO TRANSPORTATION DEPARTMENT
DISTRICT ONE

FOR THE REPORTING PERIOD: JANUARY 1, 2012 TO DECEMBER 31, 2012

FEBRUARY 15, 2013

INTRODUCTION

This Annual Report has been submitted by the Idaho Transportation Department District One (ITD) in response to reporting requirements set forth in Part IV.C of the EPA Permit #IDS-028223. This permit was issued by the Environmental Protection Agency (EPA) in compliance with the National Pollutant Discharge Elimination System (NPDES) regulations covering storm water discharges from ITD's Municipal Separate Sewer System (MS4) located in Coeur d'Alene, Idaho. This report is hereby submitted to EPA and the Idaho Department of Environmental Quality (DEQ) to satisfy the permit reporting requirements for the third Annual Report covering the period from January 1, 2012 through December 31, 2012. The purpose of this Annual Report is to document progress toward achieving the minimum control measures identified by ITD's Stormwater Management Program (SWMP) associated with the ITD D1 MS4. This report is organized in the general order of the SWMP components as specified by Parts II.B, II.C and IV.C of the Permit. The EPA permit and report documentation can be accessed on the ITD website at: http://www.itd.idaho.gov/enviro/storm%20water/ms4/default.htm

MINIMUM CONTROL MEASURES IDENTIFIED BY THE SWMP

A. Public Education and Outreach

- ITD Stormwater Training Opportunities ITD offers instructor led training opportunities
 in the area of stormwater management and sediment and erosion control. In 2012, ITD
 provided the following statewide training opportunities to ITD personnel, consultants,
 and construction contractors:
 - The Resident Engineer (RE) & Environmental Inspector (EI) classes have been combined into one Construction Stormwater Class now that the Consent Decree is terminated.
 - There were no Initial Qualification classes (2-day) taught in 2012; only 1-day refreshers.
 - Environmental Inspector Requalification (8 hours) 138 requalification in 2012, this included REs, EIs, Environmental Planners, and Consultants.
 - Water Pollution Control Manager Training (16 hours) 91 WPCMs attended 7 classes in 2012. This was the new course developed for the release of the 2012 CGP.
 - Stormwater for Designer Training (16 hours) ITD is looking into developing a course that focuses on an Idaho specific RUSTLE II model and associated training to provide a framework for stormwater buffer analyses.

- 2. ITD Stormwater Management, Sediment and Erosion Control Guidance Ongoing improvements were made to ITD's website relative to the subject of stormwater management during the past reporting period. The ITD website is used as the principal tool for disseminating stormwater information and continues to be the appropriate location to reference the most recent stormwater guidance from ITD. Noteworthy recent changes to the website include: Updated BMP Manual; updated design specification; updated stormwater checklist; updated stormwater inspection form; new corrective action form; Stormwater documentation change report; updated Clean Water Act contract specification.
- 3. <u>ITD Stormwater Newsletters</u> ITD develops and distributes a stormwater management newsletter focusing on the latest stormwater, sediment and erosion control news and information in Idaho. Three newsletters in 2012 for the spring, summer and fall were released. The newsletters are attached to this report and are also available on the ITD website.

B. Public Involvement/Participation

- 1. <u>ITD Website</u> ITD continues to maintain an MS4 section on its website. The ITD D1 MS4 permit, annual reports and MS4 map are available on the website for viewing. The public can contact ITD with any comments or questions through the website.
- 2. <u>ITD Maintenance Section Public Involvement</u> ITD's Operations Engineer and staff are responsible for performing highway maintenance activities on ITD right of way, including maintenance of stormwater infrastructure. Any public or regulatory agency concerns and comments can be directed to the ITD District 1 Operations Engineer at any time during normal business hours by calling 208-772-1200, accessing the ITD website or by visiting or writing to the District 1 Office at 600 W. Prairie Avenue Coeur d'Alene, Idaho 83815.
- 3. <u>ITD Transportation Planning Activities</u> ITD routinely participates the Kootenai Metropolitan Planning Organization (KMPO) quarterly meetings. Formed in 2003, KMPO and its technical arm, the Kootenai County Area Transportation Team (KCATT), meet monthly to facilitate its mission. These groups oversee transportation activities within the federally designated urban area boundary, develop the transportation work plan and a transportation demand model. The KMPO consists of several transportation and land use planning organizations that include the following: Cities of Coeur d'Alene, Post Falls, Hayden, Rathdrum, Kootenai County, Post Falls Highway District, Lakes

Highway District, Eastside Highway District and ITD. The KMPO process also helps shape projects that may become incorporated into ITD's STIP, as discussed earlier. KMPO meetings include an open public comment agenda item to allow for public involvement in KMPO activities. Stormwater issues or concerns may be raised by the public during KMPO meeting. In 2012, there was no indication to ITD of stormwater-related public comments, as voiced during KMPO activities. The KMPO/KCATT public involvement forum will continue to provide a forum for public involvement with the MS4.

- 4. Open Houses ITD was represented at the 2012 open house event host by the City of Coeur d'Alene.
- 5. <u>Adopt a Highway Program</u> In 2012, the program involved 201 groups (1977 participants) and cleaned 362 miles of roadway (including I-90 through Coeur d'Alene) and recovered 91,385 pounds of litter.

C. Illicit Discharge Detection and Elimination

- 1. <u>Dry Weather Screening</u> On July 17, 2012, the I-90 stormwater system was visually observed at open ditches and pipe outfalls during a routine water quality sampling event (see IDDE log).
- 2. <u>Spill Response</u> ITD's spill response procedures are identified in the *Transportation Incident Management Plan for the State of Idaho, January 2008*. This document can be obtained from the ITD website at: http://www.itd.idaho.gov/publications/detour/ITD%20TIM%20Plan_Final_2008.pdf
- 3. Complaint Filing ITD has also set up an electronic file folder to record and track any public complaints or information that may be received. Complaints or other information related to MS4 management and operation can be communicated to the District 1 Headquarters office at 208-772-1200. No specific complaints were recorded during the 2012 reporting period.
- 4. ITD MS4 Map ITD has developed a stormwater infrastructure map of the I-90 facility within the city limits of Coeur d'Alene. The map was prepared from the City's Geographic Information System (GIS) database of the existing citywide stormwater system and the original I-90 construction plans. The map consists of ITD's current understanding of the I-90 stormwater system layout, specifications, and connection points

with the City MS4. The ITD D1 MS4 map was modified in 2012 in response to EPAs compliance inspection in 2011. The map may be modified over time with new information and is posted on the ITD website for viewing at: http://www.itd.idaho.gov/enviro/storm%20water/ms4/GIS%20Maps/MS4%20Map%20of%20CdA.pdf.

5. <u>Illicit Discharge Training</u> - As discussed in Control Measure 1, ITD implements an ongoing stormwater education and training program for its employees and interested contractors in the area of NPDES regulations, stormwater management, and sediment and erosion control BMPs. The program will be maintained, updated, and revised periodically as regulations change and BMP technical support materials are updated.

D. Construction Site Stormwater Runoff Control

No construction projects were undertaken within the MS4 area during 2012.

E. Post-Construction Storm Water Management in New Development and Redevelopment

No development or redevelopment projects were undertaken within the MS4 area during 2012.

F. Pollution Prevention and Good Housekeeping for Municipal Operations

The principle stormwater pollutant in highway runoff is sediment (sand) from highway sanding operations. Sediment deposits can build up along roadway shoulders, catch basins, and within open ditches along the roadway. Maintenance activities to address sedimentation of the system include periodic shoulder shaping, drop inlet sediment removal, and ditch cleaning to maintain the original line and grade of the stormwater system. In recent years ITD has scaled back on its use of sand for use as anti-skid material and now uses more salt brine than in the past. Less sanding on I-90 generally means less frequent maintenance to remove sand deposits on shoulders and from drop inlets and ditches. Routine roadway brooming and drop inlet maintenance was conducted in April of the reporting period.

ITD maintenance personnel inspected the I-90 stormwater conveyance system in July 2012. All of the highway embankment slopes along the facility are currently stable with no signs of erosion. The catch basins, piping and ditches appear to be in proper working

condition. Currently ITD has no concerns with the MS4 operation and no immediate plans to perform ditch maintenance. In the future, if sediment removal becomes necessary again, the work will be conducted during dry weather periods when the MS4 is dry and the potential for sediment discharge is low.

Operation and maintenance (O&M) of the I-90 MS4 does not require any of the following activities: fleet vehicle maintenance and washing, materials storage, building maintenance, grounds/park maintenance, hazardous material storage, used oil recycling, sand/salt storage, solid waste transfer activities, spill control and prevention measures for refueling facilities, or snow disposal site operation.

The two maintenance yards located within the Coeur d'Alene Urbanized Area are located at 600 W. Prairie Avenue (District Headquarters) and at 2800 Ramsey Road (known as "the 40-acres"). Neither of these sites discharge to the MS4 or any surface waters of the U.S. Both of these sites are equipped with pollution prevention BMPs. A description of the sites and pollution prevention BMPs are available upon request.

G. CONTROL OF THE DISCHARGE OF POLLUTANTS OF CONCERN

Samples were collected per the MS4 permit requirements in 2012 (see updated data log).

H. RESULTS OF INFORMATION COLLECTED AND ANALYZED DURING THE PREVIOUS 12 MONTH PERIOD:

See Attached.

I. SUMMARY OF THE NUMBER OF INSPECTIONS, FORMAL ENFORCEMENT ACTIONS AND SIMILAR ACTIONS PERFORMED BY THE PERMITTEE:

No formal enforcement actions or recommendations were filed during 2012.

J. SUMMARY OF NON-EPA RELATED COMPLAINTS AND/OR ENFORCEMENT ACTIONS:

EPA issued and MS4 inspection report in 2012. ITD responded to the inspection report with the attached letter.

K. COPIES OF EDUCATIONAL MATERIALS, ORDINANCES, INVENTORIES, GUIDANCE MATERIALS OR OTHER PRODUCTS:

Refer to ITD website.

L. ACTIVITIES TO BE UNDERTAKEN IN COMING YEAR:

Continue water quality monitoring; make improvements to the water quality monitoring stations; conduct dry weather survey.

M. DESCRIPTION AND SCHEDULE FOR IMPLEMENTATION OF ADDITIONAL BMPS THAT MAY BE NECESSARY BASED ON MONITORING RESULTS TO ENSURE COMPLIANCE WITH APPLICABLE WATER QUALITY STANDARDS:

None

N. NOTICE IF THE PERMITTEE IS RELYING ON ANOTHER ENTITY TO SATISFY PERMIT OBLIGATIONS:

None

ATTACHMENTS

- ITD 2012 Stormwater Newsletters
- ITD D1 MS4 2012 Water Quality Laboratory Results
- 2012 Regulatory Correspondence EPA Inspection Report ITD Response Letter



STORM EVENTS

Volume 6, Issue 3

ITD Quarterly Stormwater Newsletter

SPRING 2012

Promoting Responsible Stormwater Management Practices throughout the Idaho Transportation Department



EXTRA! EXTRA! READ ALL ABOUT IT! EPA has issued the New 2012 Construction General Permit!

The EPA issued a new National Pollutant Discharge Elimination System (NPDES) general permit for stormwater discharges from construction activities on February 16, 2012. The 2012 Construction General Permit (CGP) replaces the 2008 CGP.

This CGP is a five year permit, during which time it will provide coverage to eligible existing and new construction projects in all areas of the country where the EPA is the NPDES permitting authority. For more information on the CGP in Idaho, go to EPA's Region 10 website: http://yosemite.epa.gov/r10/water.nsf/Stormwater/home

The CGP is currently awaiting state level certification from the Idaho Department of Environmental Quality and is not yet available in Idaho. That certification will likely occur sometime in April. Once the 2012 permit is available in Idaho, operators of projects with existing 2008 CGP coverage will have 90 days to obtain coverage under the 2012 CGP.

Some of the significant permit modifications in the new CGP include requirements such as:

- · Eligibility for emergency-related construction
- Eligibility for use of treatment chemicals such as polymers, flocculants, or other treatment chemicals, provided
 operators comply with the application, training, handling, and storage requirements of the permit
- There is now a 14-day waiting period after filing the Notice-of-Intent (NOI), and NOIs must be filed electronically
- Operators of support activities, if different than the operator of the main construction site, are required to file NOIs
- Natural buffers or alternative controls are required for projects located within 50 feet of surface waters
- Sites discharging to waters impaired for common pollutants associated with construction activities, such as sediment and nutrients, and to high quality waters, are subject to additional requirements, including tighter stabilization deadlines (7 calendar days) and more frequent site inspections. Turbidity monitoring may also be required per IDEQ's 401 certification requirements
- Simple BMP maintenance or repair must be done by the end of the day following the day of discovery
- The storm event size that triggers site inspections for those using a storm-based schedule decreased from a 0.5 inch storm event to a 0.25 inch storm event
- During a multi-day storm event, inspections must occur within 24 hours of a storm producing the first 0.25 inches, and then again within 24 hours of the end of the storm
- · If track out occurs onto paved surfaces, it must be removed by the end of the same work day in which it occurs
- Some corrective actions must be taken on the day of discovery

Test Your Storm Water Management I.Q.:

- How close to waters of the U.S. does a project have to be to initiate the stream buffer requirements in the new CGP?
- True or False: Pavement wash water is considered a nonstormwater discharge from a construction activity.
- 3. How many acres must a project (or a smaller site that is part of a larger project) disturb to be eligible for the new CGP?
- 4. How long is the "waiting period" for EPA to authorize construction sites seeking coverage under the new CGP?



ITD STORMWATER FREQUENTLY ASKED QUESTIONS (FAQS)

Q1: With the recent issuance of the 2012 CGP, how is ITD dealing with stormwater management training requirements? Will there be new courses developed based on the new CGP? How will ITD inspector and WPCM training and certification be handled?

A 1: Course development is in progress to update the materials for the new permit. Inspector and WPCM certifications are extended as described below to accommodate the time for the new training to be developed.

For ITD staff & consultant inspectors working for ITD: Headquarters Environmental requested Headquarters Training extend all stormwater inspection certifications until June 1, 2012.

For Contractor Water Pollution Control Manager's ITD extended certifications until June 1, 2012 if one of two requirements is met:

- · WPCM was trained after Nov 1, 2010 or
- WPCM was trained between Nov 1, 2009 and Nov 1, 2010 AND can provide documentation that demonstrates he/she has actively been working as a WPCM on an ITD job. This documentation should be submitted to the District prior to contract award. Brad Wolfinger (334-8163) has records to help the District verify if the WPCM has been active on an ITD project.

If ITD is unable to meet the statewide re-training needs by this date, we will revisit the certification issue at that time. **Q2:** I've heard that the new CGP places more responsibility on the Contractor. Is this true and why?

A2: The new CGP has increased requirements for pollution prevention and good housekeeping. In addition, corrective action must be taken on maintenance issues or other items requiring correction such as track out on the day of discovery. As a result, the operator who has day-to-day control of the site will have more responsibility to meet these increased requirements. Based on how ITD executes projects and the definition of operator in the CGP, the entity that typically has day-to-day control of the project is the Prime Contractor.

Quiz Answers:

- Per Part 2.1.2.1 of the new CGP, if a construction site is within 50 feet of waters of the U.S., the project is required to meet the new stream buffer requirements.
- True. This is considered a non-stormwater discharge according to the new CGP Part 1.3.d.viii. You are prohibited from directing pavement wash waters directly into any surface water, storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control.
- 3. One or more acres which is the same as the 2008 CGP.
- 4. 14 days per Part 1.4.2 of the new CGP. The 2008 CGP required 7 days after receiving the NOI, but this extra time allows for a more thorough agency analysis, including impacts on endangered species or sensitive waters.

BMP of the Quarter

BMP-3.16 Freeze Reduction

Refer to: ITD BMP Manual Chapter 3: Non-Stormwater BMPs

Description

Snow and ice accumulation in structures, such as ditches and culverts, can lead to plugging or altering water flow. Frozen culverts can cause water to flow over roadways, destabilizing them. Ice blockage in channels can increase water levels and lead to significant erosion.



Applications

During cold, winter months, proper slopes and proper installation of standard hydraulic structures reduce freezing. This BMP is especially important in areas where heavy frost and snow can lead to unacceptable failure, such as proximity to hazardous sites.

Limitations

This BMP should not be implemented if there is limited access or space for oversized hydraulic structures or if elevated culvert outlets could obstruct fish migration. If there is limited access to electricity, avoid heat-based methods of reducing frost or ice.



STORM EVENTS

Volume 6, Issue 4

ITD Quarterly Stormwater Newsletter

SUMMER 2012

Promoting Responsible Stormwater Management Practices Throughout the Idaho Transportation Department

IDEQ § 401 Certification of 2012 CGP has Been Completed

On April 3, 2012, the IDEQ provided the State of Idaho's §401 Certification of the 2012 CGP. The §401 Certification is required by the Clean Water Act as a means for the state to certify that any federal permits issued under the Clean Water Act meet applicable Idaho Water Quality Standards (WQS).

To ensure compliance with Idaho WQS, IDEQ will require the permittee(s) to comply with Idaho's numeric turbidity criteria, developed to protect aquatic life uses. The criterion states, "Turbidity shall not exceed background turbidity by more than 50 NTU instantaneously or more than 25 NTU for more than 10 consecutive days" (IDAPA 58.01.02250.02.e). For waters identified as impaired due to sedimentation/siltation, IDEQ is requiring the permittee to conduct turbidity monitoring as described in the "Conditions" section of the certification, now included as CGP Part 9.7.1.6.

Turbidity Monitoring

- For waters identified in the most recent Integrated Report as impaired for sedimentation/siltation, the permittee must conduct turbidity monitoring each day during construction activities when the project is not stabilized per Part 2.2 or shut down per Part 4.1.4.3 of the CGP.
- CGP required monitoring is only necessary when stormwater or allowable non-stormwater discharges are occurring. Monitoring requirements based on a project specific 401 certification or Biological Opinion take precedence over this requirement.
- · Use a properly and regularly calibrated turbidimeter meter.
- A sample must be taken twice daily at an undisturbed area immediately upstream of the project area to establish background turbidity levels for each monitoring event.
- Background turbidity, location, date and time must be recorded prior to monitoring downstream of the project.
- A sample must also be taken twice daily immediately downstream from any point of discharge and within any visible plume. The turbidity, location, date and time must be recorded.
- The downstream sample(s) must be taken immediately following the upstream sample(s) in order to obtain meaningful and representative results.



Turbidity monitoring may be required on your ITD construction project. Coordinate with your Environmental staff to determine applicability.

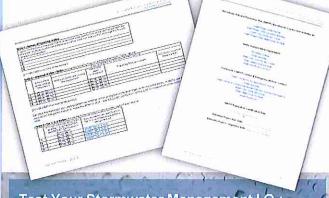
Contractor's WPCM Course Status

WPCM courses are in the process of being updated to align with the new CGP and ITD requirements. Courses will be reviewed with the goal of ITD approval of the new courses over the next month, with initial course offerings potentially starting as soon as early July. In the meantime, existing WPCM certifications have been extended to August 15th, 2012. Please contact Brad Wolfinger in the Environmental Section at headquarters with any questions. Brad can be reached at (208) 334-8163 or brad.wolfinger@itd.idaho.gov

New ITD SWPPP Template Available

The new ITD SWPPP template is based on the 2012 CGP SWPPP template produced by EPA. This template can be found on the ITD stormwater website. Check it out at: http://www.itd.idaho.gov/enviro/storm%20water/SW_Documents/default.htm

The template will be evolving based on user feedback so always refer to the website to obtain the most recent version.



Test Your Stormwater Management I.Q.:

- How long after discovering the occurrence of a triggering condition (Part 5.2.1) must a Corrective Action Report be completed?
- If completing storm event inspections, the minimum storm event which now triggers an inspection requirement is now ___? __inches or greater.
- 3. Can you begin commencement of Earth-Disturbing or Pollutant-Generating activities at the Construction Site or Construction Support Activity during the 14day Notice of Intent (NOI) waiting period?
- 4. What is an Erosion and Sediment Control Plan (ESCP) on ITD projects?

ITD STORMWATER FREQUENTLY ASKED QUESTIONS (FAQS)

Q1: Does the contractor need to coordinate with and get approval from ITD to complete a Notice of Termination (NOT) filing on a project?

A1: Yes. Coordination of the NOT filing is very important for several reasons. Prior to the contractor filing their NOT, ITD needs to verify site conditions exist that allow NOT filing, determine who will be performing compliance inspections on behalf of ITD if required, and determine who is responsible for any additional BMP maintenance, repair, or installation. Therefore, prior to completing a NOT, the contractor needs to complete and submit the "CONTRACTOR REQUEST TO FILE NOTICE OF TERMINATION" form for approval by the ITD Resident Engineer.

Q2: Since numeric effluent limits (national turbidity standards) were not included in the new CGP, are there any other water quality-based requirements in the 2012 CGP?

A2: The 2012 CGP includes requirements that are intended to protect impaired waters that receive construction site stormwater discharges. Sites that discharge to sediment or nutrient-impaired waters must comply with more rapid site stabilization requirements and increased site inspections. Sites that discharge to high quality waters (i.e., Tier 2 or 3 waters, although currently no Tier 3 waters in ID) must also comply with the requirements for more rapid site stabilization and increased site inspections. See CGP Part 3 for details.

Q3: I've heard that I'TD now has a template for Erosion and Sediment Control Plans, similar to the SWPPP template. Where can I find a copy of the new template?

A3: ITD has developed an ESCP template for use on projects that disturb less than one acre of soil or don't have a potential to discharge pollutants to Waters of the U.S. Since all pollutants need to be managed properly, even when coverage under the CGP is not required, ITD has developed ITD Form 2788 to standardize the information required in ESCP plans. An inspection form has also been developed that can be used by contractors on ESCP projects. This is Form 2786, and closely mimics EPA's inspection form. The 2786 & 2788 can be found on Form-Finder, or downloaded from ITD's Stormwater Website.

Quiz Answers:

- 1. 24 hours
- 0.25 inches, even if the storm is still continuing.
- 3. No. The 14-day NOI waiting period allows EPA to process your NOI and evaluate the environmental impacts on water resources, endangered/threatened species, and historic properties. Any construction or pollutant generating activities before the 14-day waiting period is considered out of compliance.
- ESCP = Erosion and Sediment Control Plan. ITD requires that an ESCP be developed for projects that do not require CGP coverage. See ITD Form 2788 for the ESCP template.

BMP-PC 40 POROUS PAVEMENTS (Temporary or Permanent) ITD Standard Specifications, Section 602.

BMP of the Quarter

Description. Porous pavement consists of porous asphalt, concrete, lattice pavers, concrete blocks, or stones. The surface material is laid on a gravel subgrade and the surface voids are filled with sand or a sandy loam turf. Stormwater flows percolate through the pavement into the underlying soil. Using this BMP, impervious surfaces retain infiltration capacity.

Applications. Porous pavements are best used in areas of low traffic volumes and loads and has a potential for high particulate pollutant removal. They are most often used in the construction of parking lots for office buildings and shopping centers. Other uses include traffic islands, road shoulders, and residential driveways. Lattice pavers or stones can enhance site aesthetics while reducing flooding by infiltrating or slowing stormwater runoff.

Limitations: Suitable sites for porous pavements are generally limited to low traffic areas with a minimum soil infiltration capacity of 0.5 inches/hour. These pavements should not be used in areas of high contaminant loads such as gas stations. Additionally, proximity of the pavement to groundwater needs to be considered.

Maintenance: Careful attention to maintenance during periodic inspection is necessary to reduce clogging.

Maintenance should include vacuum sweeping and jet hosing.





STORM EVENTS

Volume 7, Issue 1

ITD Quarterly Stormwater Newsletter

Fall 2012

Promoting Responsible Stormwater Management Practices Throughout the Idaho Transportation Department and Beyond

2012 CGP SWPPP Recordkeeping Information and ITD Form Updates

- The 2802 has been revised to incorporate the new requirements in the 2012 CGP. The inspection procedures and instructions have been separated from the form itself to reduce paper waste. Both can be found on Form Finder II, or on the ITD Stormwater website at:
 - http://itd.idaho.gov/enviro/Storm%20water/default.htm
- Section 6 of the new 2802 has incorporated references to the new Corrective Action Reporting requirements found in part 5.4 of the 2012 CGP. The 2802 references the Corrective Action Reporting Tables, which are filled out to meet the recordkeeping requirements of part 5.4.
- Signature/certification requirements that apply to the 2802 also apply to any Corrective Action Reports and/or SWPPP Modifications. That new certification sheet as well as the Corrective Action Reporting Tables are also available on the ITD stormwater website.
- All these new recordkeeping documents should be included in any currently active SWPPP project.
- The new documents referenced above will be incorporated into the next revision of the ITD SWPPP template so future SWPPP projects will include them from early SWPPP development.
- Information on the project's NOIs must be consistent with what is documented in the project SWPPP, and therefore between permit holders utilizing the same SWPPP. Be sure coordination of accurate and consistent NOIs is occurring between all permit holders.
- A reminder that part 1.5 of the 2012 CGP requires ITD and any other permitted entity to post a sign including the NPDES tracking (permit) number and a contact name and phone number.
- Contact Brad Wolfinger in the Headquarters
 Environmental Section with any inspection or documentation/recordkeeping related questions.
- Contact Brad at 334-8163 or <u>brad.wolfinger@itd.idaho.gov</u> or, go to <u>http://itd.idaho.gov/enviro/default.htm</u> and sign up for ITD list serve updates.



Turbidity monitoring may be required on your ITD construction project. Coordinate with your Environmental staff to determine applicability.

Contractor's WPCM Course

All previously obtained (based on 2008 CGP) WPCM qualifications expired on September 30th, 2012. The WPCM course has been updated to align with the 2012 CGP and any new ITD requirements. The ITD approved AGC course has been offered 5 times, with multiple offerings in Boise, one in Coeur d'Alene, and one in Idaho Falls. As of October 1st, there are 65 individuals holding a valid ITD WPCM qualification. Additional courses are available based on demand. Contact Lisa Fairchild with the AGC at 208-472-0463 with any availability or scheduling questions.

NPDES Stormwater Course(s)

Inspector and Resident Engineer Courses:

- These two courses are being combined into one Construction Stormwater Course. The initial qualification course will be 2-days, the refresher will be 1 day.
- All NPDES stormwater inspector qualifications have been extended until November 30th, 2012.
- One refresher course is being offered in each District during October, with 20 seats available in each class.
- One refresher course will be offered to LHTAC staff and consultant inspectors on November 7th, 2012.
- The target audience is Resident Engineers and individuals who are currently performing stormwater inspections and part of the 2802 completion process.
- The Training section currently has a target of early 2013 for offerings of the new, initial 2-day course.

Designer Course:

 The Training section currently has a target of early 2013 for offerings of the updated, 2-day designer course.

ITD Stormwater Website

Always check the ITD Stormwater Website for the most current version of all forms, templates, inserts, FAQs, etc. http://itd.idaho.gov/enviro/Storm%20water/default.htm

Test Your Stormwater Management I.Q.

- Should 2802s that have not been certified (signed) by the District Engineer or duly authorized rep be included in the SWPPP inspection records section?
- What is the standard turn-around time to get completed 2802s signed and certified by the authorized rep and back into the project SWPPP?
- 3. Can 2802s, SWPPP modifications, or Corrective Action Reports be signed by the projects Resident Engineer?
- 4. What is the inspection frequency requirement if my project discharges to a "sensitive water" defined in the CGP as a water impaired for sediment or nutrients, or as identified by IDEQ as Tier 2 for antidegradation purposes, i.e. high quality water?

ITD STORMWATER FREQUENTLY ASKED QUESTIONS (FAQS)

Q1: If a construction project has no potential to discharge stormwater or other pollutants to Waters of the United States, does it still need coverage under the Construction General Permit if it is over an acre of disturbance?

A 1: No. The National Pollution Discharge Elimination
System (NPDES) program under the Clean Water Act covers
discharges of pollutants to surface Waters of the United States.
If there is no potential to discharge stormwater or other
pollutants to surface Waters of the United States, the activity is
not regulated by NPDES and therefore does not need
coverage under the Construction General Permit.

Q2: Do all BMP installation and maintenance items, or other corrective actions identified on a project require the completion of the 24-hour and a 7-day Corrective Action (CA) Reporting included under part 5.4 of the 2012 CGP?

A2: No. While all installation or maintenance items identified on a project through inspections or other day to day activities are considered corrective actions, only a small subset of those corrective actions actually trigger the need to complete the CA Reporting process identified in part 5.4 of the CGP. The three conditions identified in parts 5.2.1.1 – 5.2.1.3 are the only conditions that trigger this additional reporting requirement. Basic project maintenance and corrective actions, as well as installation of BMPs per the project's SWPPP, do not trigger CA Reporting requirements.

Q3: Do I need to switch to the revised 2802 for inspecting existing projects, or can I finish out the project using the 2011 version of the 2802?

A3: The 2011 version of the 2802 was written to comply with the old CGP. The revised 2802, version date 08-2012 is written to comply with the 2012 CGP and should be used on projects with coverage under this permit.

Q4: With the release of the 2012 CGP, and all the questions associated with the new permit, is there a place I can find answers to some of the frequently asked questions regarding stormwater compliance issues ITD faces?

A4: The stormwater website now has a Frequently Asked Questions (FAQ) tab where Q&A information is available for commonly asked questions and topics.

Test Answers:

- Yes. CGP 4.1.7.3 requires that you keep a current copy of all inspection reports at the site. The best practice is to place a copy of the completed but uncertified 2802 in the SWPPP as a placeholder until it can be replaced with the certified copy.
 The CGP has no specified meline for this process, but EPA has indicated two weeks to be general guideline to follow.
- No. TTD management has reviewed this issue in the past and determined that the District-Engineer or duly authorized District Engineering Manager retain signature authority.
 CGP 4.1.3 dictates a frequency of 7 days and within 24 hours of a storm event of 0.25 inches. Although, the project would still be eligible for the reductions identified in CGP 4.1.4.

BMP of the Quarter, ITD BMP SC-4 STREET SWEEPING AND VACUUMING

Description: Street sweeping and vacuuming practices remove tracked-out sediment to prevent the sediment and other associated pollutants from entering a surface water or storm drain system.

Applications: These practices are implemented anywhere sediment is tracked from the project site onto public or private paved roads, typically at construction entrances and/or exits.

Section 2.1.2.3 of the 2012 Construction General Permit has specific requirements to minimize sediment track out, including appropriate BMPs to avoid it, and specific guidance for when and how to clean it up where is has occurred.

Limitations: Sweeping and vacuuming may not be effective when soil is too wet or muddy; however, the soil should be slightly moist to avoid generation of dust while sweeping.

Maintenance: Sweep as required to maintain compliance with the CGP or any other local requirements or ordinances, or as required by the Engineer.

Be careful not to sweep up unknown or potentially hazardous substances.

Adjust brooms to maintain proper contact with the ground to maximize efficiency and effectiveness of sweeping operations.

After sweeping is finished, properly dispose of collected waste at an approved location.



1DAHO TRANSPORTATION DEPARTMENT 600 W. Prairie Ave. Coeur d'Alene, ID 83815-8764

(208) 772-1200 itd.idaho.gov



IDAHO

Ms. Julie Congdon NPDES Compliance Unit U.S. EPA Region 10 1200 Sixth Avenue, Suite 900 (M\S OCE-133) Seattle, Washington 98101

Re: Responses to EPA Inspection of ITD D1 MS4

Dear Ms. Congdon:

Thank you for your March 14, 2012 letter regarding the results of EPA's inspection of the Idaho Transportation Department District 1's (ITD D1) MS4 on September 16, 2011. In this letter, I will discuss ITD's response to the concerns identified in your letter in the general order in which they appear.

Violations

1) EPA's inspection identified the following problems with the ITD D1 MS4 map: catch basins and manholes located within the City of Coeur d'Alene's MS4 jurisdiction were not adequately labeled as such; and the map did not accurately reflect the locations and names of sampling points within the system. We have revised the ITD D1 MS4 map to remove any catch basins and manholes that are not within the ITD's MS4. We have also improved the labels at each of the active sampling points to identify distinct station names that will be used to identify sample stations from this point forward. We would like to point out that the MS4 Permit only requires monitoring at the MS4 outlet located in French Gulch or Fernan Creek. The required MS4 outlet point has always been sampled within the open ditch at the downstream side of Sherman Avenue box culvert. The stormwater drainage that passes by this point is characteristic of the I-90 stormwater system (ITD's MS4) along with stormwater flows from multiple drainage areas within the City's jurisdiction, and all of the drainage from French Gulch. We will continue to monitor stormwater at this location for the duration of the MS4 Permit period and will refer to this location as the MS4 outlet, below the Sherman Avenue Interchange.

Please note, we have voluntarily monitored other upstream locations within the drainage area in order to better understand the relative differences in pollutant concentrations and loads coming from some of the major interconnection points that drain from the City's jurisdictional area. Since the

Ms. Julie Congdon April 13, 2012

beginning of our monitoring efforts, some of these locations and the names and numbers used to describe them, have been revised and improved in response to on-the-ground observations of flow volumes and channel conditions within the system. While we feel we have currently arrived at a consistent sampling network and naming system, we may continue to add or delete sampling point locations upstream from our required outlet location where and when appropriate. A copy of the revised map has been enclosed for you review and has been updated on the ITD website.

- 2) EPA has stated that ITD has not developed an information management database system to track the ITD D1 MS4 Illicit Discharge Detection and Elimination (IDDE) program. Up to this point, ITD has simply addressed the results of our IDDE efforts within the context of the MS4 Annual Reports. Because this level of documentation is apparently not sufficient, we have developed a single spreadsheet where all of the MS4 monitoring results and tracking information will be maintained and displayed on an ongoing basis. This MS4 compliance monitoring spreadsheet resides in the District's MS4 file folder and has been copied to the MS4 section of the ITD website for viewing. The spreadsheet will be updated at least annually in conjunction with the MS4 Annual Report cycle. All aspects of MS4 compliance monitoring are tracked and recorded in the spreadsheet, including records and results from our IDDE efforts, public information requests and complaints, water quality monitoring data, MS4 operation and maintenance records and any other pertinent compliance monitoring data. The spreadsheet will be periodically updated and referenced (included) in the MS4 Annual Reports. A provisional version of this spreadsheet will be transmitted to you via email for your review.
- 3) EPA noted that temperature data was not included with the laboratory results provided with the MS4 Annual Report. As noted in your letter, ITD recorded temperature in the field book during sampling events but failed to include these data with the MS4 Annual Report. ITD has corrected this discrepancy by transferring the temperature data from the field book to the MS4 compliance monitoring spreadsheet (described above).
- 4) EPA noted that ITD has submitted past MS4 Annual Reports to the EPA Permits Unit, not the EPA Compliance Unit as required by the MS4 Permit. ITD will correct this discrepancy with subsequent submittals of MS4 compliance information.

Areas of Concern

1) EPA noted a lack of information in ITD's compliance file to demonstrate how ITD is addressing potential negative impacts from the use of salt in road deicing operations, as required by Part II.B.6.a. We appreciate this comment and would like to offer some information regarding ITD's efforts to

monitor deicer (salt) content in highway stormwater drainage. The most notable monitoring effort to date was a collaborative monitoring effort with IDEQ to document chloride levels in Cedar Creek and 4th of July Creek (I-90, 4th of July Pass drainage). While the 4th of July study area is not specifically within the MS4 boundaries in Coeur d'Alene, the results can be used to generally understand the influence of highway deicing operations on adjacent water bodies. The monitoring period for the 4th of July Pass study has now ended and IDEQ has produced a study report, which is enclosed for your information.

Also, ITD previously included chloride tests in several sampling events that were conducted prior to the effective date of the MS4 Permit monitoring requirement. Chloride was not included as a required parameter in the MS4 Permit; therefore we have not tested for it in the most recent sampling events. In response to EPA's comment regarding potential deicer impact, we plan to resume chloride testing in all subsequent sampling events within the MS4 area. To date, the chloride levels that have been detected in highway stormwater drainage do not appear to cause a water quality problem or otherwise exceed any known threshold of concern for chloride.

2) EPA recommends that ITD develop a system to track MS4 inspection data as a means of documenting how well the system is functioning, what areas need maintenance, where problems may be emerging and other factors in the management of the MS4. ITD has addressed this recommendation by developing an MS4 inspection log sheet within the compliance monitoring spreadsheet described above.

Thanks again for conducting an inspection of ITD D1's MS4. I hope you find our response to your concerns satisfactory. Please feel free to call me at 208-772-1224 if you have any questions or concerns regarding this response.

Sincerely,

John Perfect, P.E.

Enclosure:

Updated ITD D1 MS4 Map

DEQ Report



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

1200 Sixth Avenue, Suite 900 Seattle, Washington 98101-3140

MAR 1 4 2012

OFFICE OF COMPLIANCE AND ENFORCEMENT

Reply To: OCE-133

RECEIVED

MAR 1 9 2012

I.T.D. DIV OF HIGHWAYS
GOEUR DYALENE, IDAHO

CERTIFIED MAIL - 7011 0470 0002 9128 0396 RETURN RECEIPT REQUESTED

NOTICE OF VIOLATION and INFORMATION REQUEST

John Perfect
District Operations Engineer
Idaho Transportation Department, District #1
600 West Prairie Avenue
Coeur d'Alene, Idaho 83815



Re:

Idaho Transportation Department District #1 Municipal Separate Storm Sewer System (MS4)

Compliance Inspection

Dear Mr. Perfect:

On September 16, 2011, the U.S. Environmental Protection Agency Region 10 (EPA) conducted an inspection of the Idaho Transportation Department District #1's (ITD) Phase II Municipal Separate Storm Sewer System (MS4), including ITD's storm water management program (SWMP), to evaluate compliance with its National Pollutant Discharge Elimination System (NPDES) Permit, Permit Number IDS-028223. I would like to express my appreciation for your time and cooperation during the inspection.

The Permit establishes minimum requirements for a MS4 SWMP to address the water quality impacts from stormwater and allowable non-stormwater discharges. The inspection included a review of documents, interviews with ITD program managers and staff, and field verification inspections. A review of the inspection report and available files revealed the following violations and concerns:

VIOLATIONS

1. Per Part II.B.3.d of the Permit, ITD must update and complete its comprehensive MS4 map. The map must show the location of all ITD-owned or operated storm sewers, culverts, ditches and other conveyances as well as points at which ITD's MS4 interconnects with other MS4s. In reviewing the MS4 map, EPA observed that certain catch basins and manholes appeared to be outside of ITD's jurisdiction. An ITD representative confirmed that some manholes and catch basins on the map are not necessarily ITD's but are part of the City of Coeur d'Alene's MS4. This is a violation of Part II.B.3.d of the Permit. The MS4 map must be updated to accurately reflect which MS4 features are owned/operated by ITD and which are

owned/operated by another MS4 operator. In addition, per Part IV.A.6.c(ii), the Quality Assurance Plan must include a map(s) indicating the location of each sampling point. At the time of inspection, EPA observed a lack of consistency and confusion concerning the sampling points shown on the MS4 map. Specifically, the names and numbers of the sampling points on the MS4 map did not correspond with the names and numbers of the sampling points in the monitoring data. It is imperative that a consistent numbering and nomenclature system exist for ITD's outfalls and sampling points. MS4 maps must be updated in order to provide clarity and consistency for all relevant features, including monitoring points in the MS4. This is a violation of Part IV.A.6(iii).ii of the Permit.

- 2. Per Part II.B.3.a of the Permit, ITD must develop an information management database system to track the activities and actions of the illicit discharge detection and elimination (IDDE) program. Per Part IV.C of the Permit, ITD is required to include in each Annual Report an assessment of "compliance with the permit and progress towards achieving the identified actions and activities for each minimum control measure in Parts II,B and II,C", ITD has not demonstrated that an information management database system has been developed. The Annual Reports lack information regarding a database system. In the pre-inspection questionnaire, EPA requested a copy of the information management database system utilized for tracking the program in order to get a better understanding of how the IDDE program is functioning. In its response to this request in the questionnaire, ITD stated that "the Operations Assistant enters information into an electronic file on the ITD server which is accessible to concerned personnel. The information is a combination of PDFs and Excel spread sheets". None of this information was submitted as requested by EPA nor was it provided at the inspection. It appears that ITD has not developed an information management database system as required by the Permit; therefore, this is a violation of Part II.B.3.a of the Permit. Further, ITD's failure to provide the information requested in the July 28, 2011, information request is a violation of Section 308 of the Clean Water Act.
- 3. Per Part IV.A.5 of the Permit, ITD is required to monitor for temperature. Per Part IV.C.2 of the Permit, ITD must ensure that the monitoring information is contained in each Annual Report. However, temperature was not included in the monitoring reports provided in the Annual Report. During the inspection, ITD provided copies of its monitoring data for the MS4 sampling points; the data included temperature. EPA asked why temperature was not included in the monitoring reports. An ITD representative said that temperature was recorded in the field books for the sampling points. While ITD had monitored for temperature, ITD failed to transfer the information from the field notebooks into the monitoring reports. Temperature measurements, if noted in field notebooks, must be transferred to the monitoring reports for the sampling locations. This is a violation of Part IV.C.2 of the Permit.
- 4. Per Part IV.D of the Permit, ITD must submit reports and other documents required by the Permit to the NPDES Compliance Unit. However, ITD has been submitting these reports and other documents to the NPDES Permits Unit. These are violations of Part IV.D of the Permit.

AREAS OF CONCERN

1. Per Part II.B.6.a of the Permit, ITD's operation and maintenance program "must address municipal activities occurring within the permittee's jurisdiction with the potential for negative stormwater related water quality impacts including the use of...road deicers". During the

inspection, an ITD representative noted that there is now more salt than sand used on the I-90 highway corridor. He stated that the rationale for this change was that salt was more cost effective. In a post-inspection review of ITD's compliance file, there was no information regarding how ITD's program is addressing potential negative impacts from the use of salt in road deicing as required by Part II.B.6.a of the Permit. Further, it is not clear if ITD has a standard operating procedure regarding how it determines if its activities have the potential for negative water quality impacts and, if such a determination is made, how it addresses such negative impacts.

2. In its response to the pre-inspection questionnaire, ITD stated, "There are no hard data to describe the amount of storm system inspected each year". This is not an adequate response. It is strongly recommended that such numbers and/or data be tracked, as they will give ITD an understanding of how well its system is functioning, what areas need maintenance, where problems may be emerging, and other factors in the management of its storm system.

INFORMATION REQUESTED

The request for information in this letter is made under the authority of Section 308 of the Clean Water Act (CWA), 33 U.S.C. § 1318. Within thirty (30) days of receipt of this letter, please identify what steps you have taken to address each of the violations and concerns noted above and to ensure compliance with the CWA and stormwater regulations, including the following:

- a. A complete and updated map of the ITD's MS4, including a consistent numbering and nomenclature system of the monitoring locations and outfalls. If the map displays manholes, catch basins, and other stormwater control features outside of the ITD's right-ofway and/or jurisdiction, please note them as such.
- b. A copy of the information management database system to track the activities and actions of the program as required in Part II.B.3.a of the Permit.
- c. An assessment of how ITD is addressing "municipal activities occurring within the permittee's jurisdiction with the potential for negative stormwater related water quality impacts including the use of...road deicers", namely negative effects from the use of salt in road deicing, per Part II.B.6.a of the Permit.

Please submit your response to:

Julie Congdon
NPDES Compliance Unit
U.S. EPA Region 10
1200 Sixth Avenue, Suite 900 (M\S OCE-133)
Seattle, WA 98101

In accordance with the provisions of 40 C.F.R. § 2.203, you may assert a business confidentiality claim covering part or all of the information submitted by clearly identifying it as "confidential." If no such claim accompanies the information when it is received by the EPA, it may be made available to the public without further notice.

We urge you to take the steps necessary to address these concerns and to ensure that all other aspects of your operation are conducted in accordance with all applicable federal, state, and local requirements.

If subsequent inspections find that these concerns have not been addressed, formal enforcement actions, including penalties, may be assessed.

Please do not hesitate to contact us with any questions regarding this letter or other matters related to your compliance with the CWA. If you have any questions concerning this matter, please contact Julie Congdon, Compliance Officer, at (206) 553-2752.

Sincerely,

Edward J. Kowalski

Director

cc: Curt Fransen

Director, Idaho Department of Environmental Quality

State Office

£																
1	LMS4 WQ			Concent												
MS4 Outlet	Date	Flow (cfs)	Temp	TSS (mg/L)) otai Nitroge	Nitrate	Nitrite	TKN	TP	T. Lead	T. Zinc	hardness	CI	Mg	Ca	PCBs
bw Sherma	11/6/2008	NA	NA	10	2.51	1.8	ND	0.62	0.061	ND	ND	112	17	11.1	26.4	ND
	7/1/2009	NA	NA	3	1.59	8.0	ND	0.57	0.126	ND	ND	NA	19	8.6	26.4	ND
	12/22/2009	NA	NA	96	2.37	1.4	ND	1.01	0.23	ND	0.071	77.6	21	18.3	7.75	ND
	3/26/2010	NA	NA	19	0.76	ND	ND	0.4	0.07	ND	0.025	40.6	9.2	3.82	9.98	ND
	6/9/2010	6.92	13 c	15	0.63	ND	ND	0.29	0.067	ND	0.017	30	NA	2.68	7.6	ND
	10/29/2010	1.66	7 c	85	2.11	1.2	ND	0.86	0.17	0.012	0.046	90.6	NA	8.76	21.8	ND
	4/11/2011	8.75	12 c	13	0.59	ND	ND	0.27	0.066	ND	0.019	30.3	NA	2.81	7.51	ND
	6/13/2011	2.19	14 c	16	0.38	ND	ND	0.38	0.0686	ND	ND	36.3	NA	3.34	8.96	ND
1	11/22/2011	13.65	38 f	47	0.51	ND	ND	0.51	0.155	ND	0.039	10.4	NA	1.09	2.35	ND
	1/30/2012	8.87	5 c	40	0.945	0.51	ND	0.435	0.132	ND	0.02	28.3	NA	2.78	6.68	NA
	4/26/2012	2.36	12.4 c	106	3.4	ND	ND	3.4	0.186	0.011	0.06	40.2	6.19	4.04	9.36	ND
1	6/5/2012	1.2	14.7	8	0.285	ND	ND	0.285	0.046	ND	ND	37.6	5.07	3.12	9.82	ND
İ	8/22/2012	0		15	2	0.81	ND	1.19	0.119	ND	0.019	54.5	15.7	4.66	14.1	ND
	10/30/2012	0.06	9.8	14	1.22	0.69	NĐ	0.528	0.121	ND	0.037	66.5	12.7	6.3	16.1	ND
Average		4.88		32.125	1.3675	1.3	#DIV/0!	0.55	0.107325	0.012	0.0356	59.62857	16.55	7.42625	14.55	#DIV/01
Median		4.555		15.5	1.175	1.3	#NUM!	0.485	0.0693	0.012	0.025	40.6	18	6.21	9.47	#NUM1
Maximum		8.75		96	2.51	1.8	0	1.01	0.23	0.012	0.023	112	21	18.3	26.4	0
Minimum		1.66		3	0.38	0.8	0	0.27	0.061	0.012	0.017	30	9.2	2.68	7.51	0
ove Sherma	Date	Flow (cfs)		TSS (mg/i)	otal Nitroge	Nitrate	Nitrite	TKN	ΤP	T. Lead	T. Žinc	hardness	Cl	Mg	Ca	PC8s
1	6/9/2010	2.44	16 c	133 (116,72)	0.46	ND	ND	0.21	0.05	ND	0.013	24.3	NA NA	2,13	6,22	ND
ı																
	10/29/2010	2.71	9 c	52	1.49	0.6	ND	0.82	0.182	ND	0.06	32,4	NA	2,21	9.32	ND
ł	4/11/2011	4.93	14 c	17	0.53	ND	ND	0.26	0.065	ND	0.025	22,5	NA	1.97	5.75	ИD
	6/13/2011	1.03	14 c	14	0.54	ND	ND	0.54	0.072	ND	0.021	32,3	NA	2.31	9.08	ИD
	1/30/2012	2,97	5 c	20	0.271	ND	ND	0.271	0.056	ND	0,017	19,1	NA	1.74	4.75	ИD
İ	4/26/2012	6,53	14.1 c	265	3.6	ND	ND	3.6	0.446	0.026	0.14	41,5	4.8	4.84	8.5	NA
	6/5/2012	0.36	15,6	1	0,252	ND	ND	0.252	0,032	ND	ND	20,3	1.84	1.32	5.92	NA
Average		2,7775		24	0,755	0.6	#DIV/0!	0,4575	0.09225	#DIV/0!	0.02975	27.875	#DIV/01	2.155	7.5925	#DIV/01
Median		2,575		15.5	0,535	0,6	#NUMI	0.4	0.0685	#NUM!	0.023	28.3	#NUM!	2.17	7.65	#NUM!
Maximum		4.93		52	1.49	0.6	0	0.82	0,182	0	0.06		0		9.32	
1												32.4		2.31		0
Minimum		1.03		13	0.46	0.6	0	0.21	0.05	0	0.013	22.5	0	1.97	5.75	0
															_	
rench Gulcl	Date	Flow (cfs)			otal Nitroge	Nitrate	Nitrite	TKN	TP	T. Lead	T. Zinc	hardness	Cl	Mg	Ca	PCBs
pove ITD M:	6/9/2010	3.33	12 c	19	0.63	ND	ND	0.22	0.068	ND	ND	49.8	NA	4.81	12	ND
	10/29/2010	0.09	8 c	47	1.46	0.6	ND	0.73	0.153	ND	0.06	40.5	NA	3.12	11.1	ND
	4/11/2011	NA		8	0.478	ND	ND	0.17	0.067	ND	ND	40.4	NA	3.78	9.93	ND
	6/13/2011	0.59	13 c	2	0.17	ND	ND	0.17	0.0517	ND	ND	57.5	NA	5,33	14.1	ND
	4/26/2012	1.32	10.6 c	11	1.4	ND	ND	1.4	0.068	ND	ND	45.8	7,51	4.32	11,1	NΑ
	6/5/2012	0.56	12.6	4	0.288	NĐ	ND	0.288	0.05	ND	ND	60,9	9.44	5.84	14.6	NA
		* 22000		40	0.6045	0.0	HDD//OI	0.2225	0.004025	#Par (ol	0.05	47.05	#D0//01	4.20	44 7005	#D#/(0)
Average		1.336667		19	0.6845	0.6	#DIV/0!	0.3225	0.084925	#DIV/0!	0.06	47.05	#DIV/0!	4.26	11.7825	#DIV/01
Median		0.59		13.5	0.554	0.6	#NUM!	0.195	0.0675	#NUM!	0.06	45.15	#NUM!	4.295	11.55	#NUM!
Maximum		3.33		47	1.46	0.6	0	0.73	0.153	0	0.06	57,5	0	5.33	14.1	0
Minimum		0.09		2	0.17	0.6	0	0.17	0.0517	0	0.06	40,4	0	3.12	9.93	0
5th Street I	Date	Flow (cfs)		TSS (mg/L)	otal Nitroge	Nitrate	Nitrite	TKN	TP	T, Lead	T. Zinc	hardness	Cl	Mg	Са	PCBs
	6/9/2010	0.11	17 c	11	0.45	ND	ND	0,15	ND	ND	0,032	15.4	NA	0.71	4.98	ND
1	10/29/2010	0.62	8 c	44	1.75	0.6	ND	1.02	0.14	ND	0.108	37.1	NA	2.2	11.2	ND
	4/11/2011	NA	-	31	0.83	ND	ND	0.43	0,078	ND	0.065	21	NA	1.24	6.36	ND
	6/13/2011	0.13	15 c	83	1.4	ND	ND	1.4	0,189	0.011	0.063	33,3	NA NA	2.11	9.82	ND
1			5 c	16	0.094	ND		0.094				9.99				
1	1/30/2011	0.65					ND		0.054	ND	0.026		NA 2.2	0.712	2.81	NA NA
	4/26/2012	4.18	15.1 c	304	3.1	ND	ND	3,1	0.342	0.032	0.22	32.7	2.3	4.16	6.14	NA
	6/5/2012	0.08	14.7 c	2	0.256	ND	ND	0.256	0.025	ND	0.017	22.3	1.65	1.17	6.99	NA
DDE SAMPL	8/22/2012	0		22	2.53	0.77	ND	1.76	0.153	ND	0.061	32.7	31	2.09	31	NA
Average		0.286667		42.25	1.1075	0.6	#DIV/01	0.75	0.135667	0.011	0.08375	26.7	#DIV/0!	1.565	8.09	#DIV/0!
Median		0.13		37.5	1.115	0.6	#NUM!	0.725	0.14	0.011	0.0865	27.15	#NUM!	1,675	8.09	#NUM!
Maximum		0,62		83	1.75	0.6	0	1.4	0.189	0.011	0,13	37.1	0	2.2	11.2	0
Minimum		0.11		11	0.45	0.6	0	0.15	0.078	0.011	0.032	15.4	ō	0.71	4.98	0
-ء. ہمیا		El 443	mer	· · ·	. 1 500		**** ·		W-0						_	
th Street (C	Date 1/30/2011	Flow (cfs) 1.38	TEMP 5 c	TSS (mg/L) 24	otal Nitroge 0.38	Nitrate ND	Nitrite ND	TKN 0.38	TP 0.068	T, Lead ND	T. Zinc 0,011	hardness 30	CI NA	Mg 2,99	Ca 7.03	PCBs NA
	4/26/2012	4,46	15 c	392	3.6	ND	ND	3,6	0.541	0,022	0.19	36,5	0.801	4.7	6.73	
																NA
	6/5/2012	0.58	16.8	2	0,275	ND	ND	0,275	0.028	ND	ND	22.7	2.01	2.04	5.68	NA

Accurate Testing Labs, LLC 7950 Meadowlark Way

Coeur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012080406

Page: 1 of 2

Wally Brown

Idaho Transportation Dept

600 W. Prairie Ave

Coeur d'Alene, ID 83815

Description:

MS4

Date Received: 08/22/2012 09:00

Sample:

1

Below Sherman IC

Matrix:

Non-Potable Water

Location: Sample Type:

Grabs

D/T Collected:

08/22/2012 08:47

Collected by:

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	08/24/12	ANA
Calcium	14.1	mg/L	SM 3120	0.06	08/24/12	WM
Chloride	15.7	mg/L	SM 4110B	0.5	08/23/12	WM
Hardness, Total (as CaCO3)	54.5	mg/L	SM 2340	0.2	08/24/12	WM
Lead	ND	mg/L	SM 3120	0.01	08/27/12	WM
Magnesium	4.66	mg/L	SM 3120	0.03	08/24/12	WM
Nitrate-N	0.81	mg/L	SM 4110B	0.5	08/23/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	08/23/12	WM
Phosphorus, Total	0.119	mg/L	EPA 365.1	0.025	08/24/12	WM
Total Kjeldahl Nitrogen (N)	1.19	mg/L	SM 4500N B	0.06	08/27/12	AC
Total Nitrogen (N)	2.00	mg/L	SM 4500N	0.04	08/27/12	WM
Total Suspended Solids	15	mg/L	SM 2540	1	08/23/12	AC
Zinc	0.019	mg/L	SM 3120	0.01	08/27/12	WM

Comments:

Laboratory Supervisor, Walter Mueller

Date: 08/27/12

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
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Certificate of Analysis

Order No.:

2012080406

Page: 2 of 2

Sample:

2

Location: Sample Type: Above 15th St IC

Grabs

Matrix:

D/T Collected: Collected by:

Non-Potable Water

08/22/2012 08:47

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	9.65	mg/L	SM 3120	0.06	08/24/12	WM
Chloride	31.0	mg/L	SM 4110B	0.5	08/23/12	WM
Hardness, Total (as CaCO3)	32.7	mg/L	SM 2340	0.2	08/24/12	WM
Lead	ND	mg/L	SM 3120	0.01	08/27/12	WM
Magnesium	2.09	mg/L	SM 3120	0.03	08/24/12	WM
Nitrate-N	0.77	mg/L	SM 4110B	0.5	08/23/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	08/23/12	WM
Phosphorus, Total	0.153	mg/L	EPA 365.1	0.025	08/24/12	WM
Total Kjeldahl Nitrogen (N)	1.76	mg/L	SM 4500N B	0.06	08/27/12	AC
Total Nitrogen (N)	2.53	mg/L	SM 4500N	0.04	08/27/12	WM
Total Suspended Solids	22	mg/L	SM 2540	1	08/23/12	AC
Zinc	0.061	mg/L	SM 3120	0.01	08/27/12	WM

Comments:

Laboratory Supervisor, Walter Mueller

Date: 08/27/12

ND: Not Detected

Accurate Testing Labs, LLC 7950 Meadowlark Way

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Certificate of Analysis

Order No.:

2012100441

Page: 1 of 1

Wally Brown

Idaho Transportation Dept

600 W. Prairie Ave

Coeur d'Alene, ID 83815

Description:

MS4 ITD 190

Date Received: 10/30/2012 08:30

Sample:

Sherman IC Lower

Matrix:

Non-Potable Water 10/30/2012 08:00

Location: Sample Type:

Grabs

D/T Collected: Collected by:

Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	11/02/12	ANA
Calcium	16.1	mg/L	EPA 200.7	0.17	11/02/12	WM
Chloride	12.7	mg/L	SM 4110B	0.5	10/30/12	WM
Hardness, Total (as CaCO3)	66.5	mg/L	SM 2340	0.2	11/02/12	WM
Lead	ND	mg/L	SM 3120	0.01	11/08/12	WM
Magnesium	6.3	mg/L	EPA 200.7	0.03	11/02/12	WM
Nitrate-N	0.69	mg/L	SM 4110B	0.5	10/30/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	10/30/12	WM
Phosphorus, Total	0.121	mg/L	EPA 365.1	0.025	11/02/12	WM
Total Kjeldahl Nitrogen (N)	0.528	mg/L	SM 4500N B	0.06	11/05/12	AC
Total Nitrogen (N)	1.22	mg/L	SM 4500N	0.04	11/08/12	WM
Total Suspended Solids	14	mg/L	SM 2540	1	11/01/12	AC
Zinc	0.037	mg/L	SM 3120	0.01	11/08/12	WM

Comments:

Laboratory Supervisor, Walter Mueller

Date: 11/13/12

ND: Not Detected

Accurate Testing Labs, LLC 7950 Mcadowlark Way

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Certificate of Analysis

Order No.:

2012060061

Page: 1 of 5

Wallace Brown

Idaho Transportation Dept

600 W. Prairie Ave

Coeur d'Alene, ID 83815

Description:

MS4 ITD

Wallace Brown

Date Received: 06/05/2012 08:55

Sample:

1

Location:

Sherman IC Lower

Sample Type:

Grabs

Matrix:

VICILIA.

D/T Collected: Collected by:

Non-Potable Water

06/05/2012 07:45

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	06/14/12	ANA
Calcium	9.82	mg/L	EPA 200.7	0.17	06/08/12	WM
Chloride	5.07	mg/L	SM 4110B	0.5	06/05/12	WM
Hardness, Total (as CaCO3)	37.6	mg/L	SM 2340	0.2	06/08/12	WM
Lead	ND	mg/L	SM 3120	0.01	06/07/12	WM
Magnesium	3.12	mg/L	EPA 200.7	0.03	06/08/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Phosphorus, Total	0.046	mg/L	EPA 365.1	0.025	06/12/12	EB
Total Kjeldahl Nitrogen (N)	0.285	mg/L	SM 4500N B	0.06	06/12/12	EB
Total Nitrogen (N)	0.285	mg/L	SM 4500N	0.04	06/12/12	WM
Total Suspended Solids	8	mg/L	SM 2540	1	06/07/12	AW
Zinc	ND	mg/L	SM 3120	0.01	06/07/12	WM

Comments:

Laboratory Supervisor

Date: 06/19/12

Walter Mueller

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alone, ID 83815
Phone (200) 702 2000 7 Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012060061

Page: 2 of 5

Sample:

2

Location:

Sherman IC Upper

Matrix:

Non-Potable Water

D/T Collected:

06/05/2012 07:50

Sample Type: Grabs

Collected by:

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	5.92	mg/L	EPA 200.7	0.17	06/08/12	WM
Chloride	1.84	mg/L	SM 4110B	0.5	06/05/12	WM
Hardness, Total (as CaCO3)	20.3	mg/L	SM 2340	0.2	06/08/12	WM
Lead	ND	mg/L	SM 3120	0.01	06/07/12	WM
Magnesium	1.32	mg/L	EPA 200.7	0.03	06/08/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Phosphorus, Total	0.032	mg/L	EPA 365.1	0.025	06/12/12	EB
Total Kjeldahl Nitrogen (N)	0.252	mg/L	SM 4500N B	0.06	06/12/12	EB
Total Nitrogen (N)	0.252	mg/L	SM 4500N	0.04	06/12/12	WM
Total Suspended Solids	1	mg/L	SM 2540	1	06/07/12	AW
Zinc	ND	mg/L	SM 3120	0.01	06/07/12	WM

Comments:

Laboratory Supervisor

Date: 06/19/12

Walter Mueller

ND: Not Detected

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Certificate of Analysis

Order No.:

2012060061

Page: 3 of 5

Sample:

3

Location: Sample Type:

French Gulch

Grabs

Matrix:

Non-Potable Water

06/05/2012 08:01

D/T Collected: Collected by:

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	14.6	mg/L	EPA 200.7	0.17	06/08/12	WM
Chloride	9.44	mg/L	SM 4110B	0.5	06/05/12	WM
Hardness, Total (as CaCO3)	60.9	mg/L	SM 2340	0.2	06/08/12	WM
Lead	ND	mg/L	SM 3120	0.01	06/07/12	WM
Magnesium	5.84	mg/L	EPA 200.7	0.03	06/08/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Phosphorus, Total	0.050	mg/L	EPA 365.1	0.025	06/12/12	EB
Total Kjeldahl Nitrogen (N)	0.288	mg/L	SM 4500N B	0.06	06/12/12	EB
Total Nitrogen (N)	0.288	mg/L	SM 4500N	0.04	06/12/12	WM
Total Suspended Solids	4	mg/L	SM 2540	1	06/07/12	AW
Zinc	ND	mg/L	SM 3120	0.01	06/07/12	WM

Comments:

Laboratory Supervisor

Date: 06/19/12

Walter Mueller

ND: Not Detected

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Coeur d'Alene, ID 83815
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Certificate of Analysis

Order No.:

2012060061

Page: 4 of 5

Sample:

4

Location: Sample Type:

Grabs

15 St I-90 IC

Matrix:

D/T Collected:

Non-Potable Water

06/05/2012 08:20

Collected by:

Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	6.99	mg/L	EPA 200.7	0.17	06/08/12	WM
Chloride	1.65	mg/L	SM 4110B	0.5	06/05/12	WM
Hardness, Total (as CaCO3)	22.3	mg/L	SM 2340	0.2	06/08/12	WM
Lead	ND	mg/L	SM 3120	0.01	06/07/12	WM
Magnesium	1.17	mg/L	EPA 200.7	0.03	06/08/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Phosphorus, Total	0.025	mg/L	EPA 365.1	0.025	06/12/12	EB
Total Kjeldahl Nitrogen (N)	0.256	mg/L	SM 4500N B	0.06	06/12/12	EB
Total Nitrogen (N)	0.256	mg/L	SM 4500N	0.04	06/12/12	WM
Total Suspended Solids	2	mg/L	SM 2540	1	06/07/12	AW
Zinc	0.017	mg/L	SM 3120	0.01	06/07/12	WM

Comments:

Laboratory Supervisor

Date: 06/19/12

Walter Mueller

ND: Not Detected

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Certificate of Analysis

Order No.:

2012060061

Page: 5 of 5

Sample: Location:

Sample Type:

5

15 St City

Grabs

Matrix:

D/T Collected:

Non-Potable Water

06/05/2012 08:48

Collected by:

Wally Brown

Analyte	Result	Unit	Method	PQL.	Test Date	Analyst
Calcium	5.68	mg/L	EPA 200.7	0.17	06/08/12	WM
Chloride	2.01	mg/L	SM 4110B	0.5	06/05/12	WM
Hardness, Total (as CaCO3)	22.7	mg/L	SM 2340	0.2	06/08/12	WM
Lead	ND	mg/L	SM 3120	0.01	06/07/12	WM
Magnesium	. 2.04	mg/L	EPA 200.7	0.03	06/08/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	06/05/12	WM
Phosphorus, Total	0.028	mg/L	EPA 365.1	0.025	06/12/12	EB
Total Kjeldahl Nitrogen (N)	0.275	mg/L	SM 4500N B	0.06	06/12/12	EB
Total Nitrogen (N)	0.275	mg/L	SM 4500N	0.04	06/12/12	WM
Total Suspended Solids	2	mg/L	SM 2540	1	06/07/12	AW
Zinc	ND	mg/L	SM 3120	0.01	06/07/12	WM

Comments:

Laboratory Supervisor

Date: 06/19/12

Walter Mueller

ND: Not Detected

Accurate Testing Labs, LLC

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Certificate of Analysis

Order No.:

2012040354

Page: 1 of 6

Wally Brown

Idaho Transportation Dept

600 W. Prairie Ave

Coeur d'Alene, ID 83815

Description:

ITD MS4 Sampling

Wally Brown

Date Received: 04/26/2012 14:20

Sample:

Below Sherman IC

Matrix:

Non-Potable Water 04/26/2012 12:37

Location: Sample Type:

Grabs

D/T Collected: Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8052	0.2	05/04/12	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	05/04/12	ANA
PCB (total)	ND	ug/L	EPA 8020	0.2	05/04/12	ANA

Comments:

Laboratory Supervisor

Date: 05/14/12

Walter Mueller

ND: Not Detected

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Coeur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012040354

Page: 2 of 6

Sample: Location:

Sample Type:

Below Sherman IC

Matrix:

Non-Potable Water

Grabs

D/T Collected:

04/26/2012 12:37

Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	9.36	mg/L	EPA 200.7	0.17	04/30/12	WM
Chloride	6.19	mg/L	SM 4110B	0.5	04/27/12	WM
Hardness, Total (as CaCO3)	40.2	mg/L	SM 2340	0.2	04/30/12	WM
Lead	0.011	mg/L	SM 3120	0.01	05/01/12	WM
Magnesium	4.04	mg/L	EPA 200.7	0.03	04/30/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Phosphorus, Total	0.186	mg/L	EPA 365.1	0.025	05/01/12	WM
Total Kjeldahl Nitrogen (N)	3.4	mg/L	SM 4500N B	0.06	05/01/12	NWA
Total Nitrogen (N)	3.4	mg/L	SM 4500N	0.04	05/01/12	WM
Total Suspended Solids	106	mg/L	SM 2540	1	05/03/12	EB
Zinc	0.060	mg/L	SM 3120	0.01	05/01/12	WM

Comments:

Laboratory Supervisor

Walter Mueller

Date: 05/14/12

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
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Certificate of Analysis

Order No.:

2012040354

Page: 3 of 6

Sample:

Matrix:

Non-Potable Water

Location:

Ab Sherman IC

D/T Collected:

04/26/2012 12:45

Sample Type:

Grabs

Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	8.5	mg/L	EPA 200.7	0.17	04/30/12	WM
Chloride	4.80	mg/L	SM 4110B	0.5	04/27/12	WM
Hardness, Total (as CaCO3)	41.5	mg/L	SM 2340	0.2	04/30/12	WM
Lead	0.026	mg/L	SM 3120	0.01	05/01/12	WM
Magnesium	4.84	mg/L	EPA 200.7	0.03	04/30/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Phosphorus, Total	0.446	mg/L	EPA 365.1	0.025	05/01/12	WM
Total Kjeldahl Nitrogen (N)	3.6	mg/L	SM 4500N B	0.06	05/01/12	NWA
Total Nitrogen (N)	3.6	mg/L	SM 4500N	0.04	05/01/12	WM
Total Suspended Solids	265	mg/L	SM 2540	1	05/03/12	EB
Zinc	0.14	mg/L	SM 3120	0.01	05/01/12	WM

Comments:

Laboratory Supervisor

Date: 05/14/12

Walter Mueller

ND: Not Detected

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7950 Meadowlark Way
Coeur d'Alene, ID 83815
Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012040354

Page: 4 of 6

Sample:

Location:

French Gulch

Matrix:

Non-Potable Water

D/T Collected:

04/26/2012 13:05

Sample Type:

Grabs

Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	11.1	mg/L	EPA 200.7	0.17	04/30/12	WM
Chloride	7.51	mg/L	SM 4110B	0.5	04/27/12	WM
Hardness, Total (as CaCO3)	45.8	mg/L	SM 2340	0.2	04/30/12	WM
Lead	ND	mg/L	SM 3120	0.01	05/01/12	WM
Magnesium	4.32	mg/L	EPA 200.7	0.03	04/30/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Phosphorus, Total	0.068	mg/L	EPA 365.1	0.025	05/01/12	WM
Total Kjeldahl Nitrogen (N)	1.4	mg/L	SM 4500N B	0.06	05/01/12	NWA
Total Nitrogen (N)	1.4	mg/L	SM 4500N	0.04	05/01/12	WM
Total Suspended Solids	11	mg/L	SM 2540	1	05/03/12	EB
Zinc	ND	mg/L	SM 3120	0.01	05/01/12	WM

Comments:

Laboratory Supervisor

Date: 05/14/12

Walter Mueller

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
Coeur d'Alene, ID 83815
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Certificate of Analysis

Order No.:

2012040354

Page: 5 of 6

Sample:

Matrix:

Non-Potable Water

Location:

15th Street IC

D/T Collected:

04/26/2012 13:40

Sample Type:

Grabs

Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	6.14	mg/L	EPA 200.7	0.17	04/30/12	WM
Chloride	2.30	mg/L	SM 4110B	0.5	04/27/12	WM
Hardness, Total (as CaCO3)	32.7	mg/L	SM 2340	0.2	04/30/12	WM
Lead	0.032	mg/L	SM 3120	0.01	05/01/12	WM
Magnesium	4.16	mg/L	EPA 200.7	0.03	04/30/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Phosphorus, Total	0.342	mg/L	EPA 365.1	0.025	05/01/12	WМ
Total Kjeldahl Nitrogen (N)	3.1	mg/L.	SM 4500N B	0.06	05/01/12	NWA
Total Nitrogen (N)	3.1	mg/L	SM 4500N	0.04	05/01/12	WM
Total Suspended Solids	304	mg/L	SM 2540	1	05/03/12	EB
Zinc	0.22	mg/L	SM 3120	0.01	05/01/12	WM

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Certificate of Analysis

Order No.:

2012040354

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Sample:

6

Location:

15th Street City

Matrix:

Non-Potable Water

D/T Collected:

04/26/2012 13:45

Sample Type: Grabs Collected by:

Mike Hartz / Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	6.73	mg/L.	EPA 200.7	0.17	04/30/12	WM
Chloride	0.801	mg/L	SM 4110B	0.5	04/27/12	WM
Hardness, Total (as CaCO3)	36.5	mg/L	SM 2340	0.2	04/30/12	WM
Lead	0.022	mg/L	SM 3120	0.01	05/01/12	WM
Magnesium	4.7	mg/L	EPA 200.7	0.03	04/30/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	04/27/12	WM
Phosphorus, Total	0.541	mg/L	EPA 365.1	0.025	05/01/12	WM
Total Kjeldahl Nitrogen (N)	3.6	mg/L	SM 4500N B	0.06	05/01/12	NWA
Total Nitrogen (N)	3.6	mg/L	SM 4500N	0.04	05/01/12	WM
Total Suspended Solids	392	mg/L	SM 2540	1	05/03/12	EB
Zinc	0.19	mg/L	SM 3120	0.01	05/01/12	WM

Comments:

Laboratory Supervisor

Date: 05/14/12

Walter Mueller

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
Cocur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012010321

Page: 1 of 3

Bill Capaul

Idaho Transportation Dept

600 W. Prairie Ave

Coeur d'Alene, ID 83815

Description:

ITD MS4

Date Received: 01/30/2012 10:13

Sample:

Location: Sample Type: City 15th Grabs

Matrix:

Non-Potable Water

D/T Collected:

01/30/2012 00:00

Collected by:

Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	7.03	mg/L	EPA 200.7	0.17	02/06/12	WM
Hardness, Total (as CaCO3)	30.0	mg/L	SM 2340	0.2	02/06/12	WM
Lead	ND	mg/L	SM 3120	0.01	02/06/12	WM
Magnesium	2.99	mg/L	EPA 200.7	0.03	02/06/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Phosphorus, Total	0.068	mg/L	EPA 365.3	0.025	02/06/12	WM
Total Kjeldahl Nitrogen (N)	0.380	mg/L	SM 4500N B	0.04	02/02/12	AC
Total Nitrogen (N)	0.380	mg/L	SM 4500N	0.04	02/03/12	WM
Total Suspended Solids	24	mg/L	SM 2540	1	02/02/12	EB
Zinc	0.011	mg/L	SM 3120	0.01	02/06/12	WM

Comments:

Laboratory Supervisor

Date: 02/06/12

Walter Mueller

ND: Not Detected

Accurate Testing Labs, LLC
7950 Meadowlark Way
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Certificate of Analysis

Order No.:

2012010321

Page: 2 of 3

Sample:

Location:

Above 15th IC

Sample Type:

Grabs

Matrix:

D/T Collected:

Collected by:

Non-Potable Water 01/30/2012 00:00

Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	2.81	mg/L	EPA 200.7	0.17	02/06/12	wм
Hardness, Total (as CaCO3)	9.99	mg/L	SM 2340	0.2	02/06/12	WM
Lead	ND	mg/L	SM 3120	0.01	02/06/12	WM
Magnesium	0.712	mg/L	EPA 200.7	0.03	02/06/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Phosphorus, Total	0.054	mg/L	EPA 365.3	0.025	02/06/12	WM
Total Kjeldahl Nitrogen (N)	0.094	mg/L	SM 4500N B	0.04	02/02/12	AC
Total Nitrogen (N)	0.094	mg/L	SM 4500N	0.04	02/03/12	WM
Total Suspended Solids	16	mg/L	SM 2540	1	02/02/12	EB
Zinc	0.026	mg/L	SM 3120	0.01	02/06/12	WM

Sample:

3

Location:

Above Sherman IC

Sample Type:

Grabs

Matrix:

D/T Collected:

Collected by:

Non-Potable Water

01/30/2012 00:00

Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	4.75	mg/L	EPA 200.7	0.17	02/06/12	WM
Hardness, Total (as CaCO3)	19.1	mg/L	SM 2340	0.2	02/06/12	WM
Lead	ND	mg/L	SM 3120	0.01	02/06/12	WM
Magnesium	1.74	mg/L	EPA 200.7	0.03	02/06/12	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Phosphorus, Total	0.056	mg/L	EPA 365.3	0.025	02/06/12	WM
Total Kjeldahl Nitrogen (N)	0.271	mg/L	SM 4500N B	0.04	02/02/12	AC
Total Nitrogen (N)	0.271	mg/L	SM 4500N	0.04	02/03/12	WM
Total Suspended Solids	20	mg/L	SM 2540	1	02/02/12	EB
Zinc	0.017	mg/L	SM 3120	0.01	02/06/12	WM

Comments:

Laboratory Supervisor

Walter Mueller

Date: 02/06/12

ND: Not Detected

Accurate Testing Labs, LLC 7950 Meadowlark Way Coeur d'Alene, ID 83815 Phone (208) 762 8378 Fax (208) 762 9082 www.accuratetesting.com info@accuratetesting.com

Certificate of Analysis

Order No.:

2012010321

Page: 3 of 3

Sample:

4

Location: Sample Type: Sherman IC

Grabs

Matrix:

D/T Collected: Collected by:

Non-Potable Water 01/30/2012 00:00

Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	6.68	mg/L	EPA 200.7	0.17	02/06/12	WM
Hardness, Total (as CaCO3)	28.3	mg/L	SM 2340	0.2	02/06/12	WM
Lead	ND	mg/L	SM 3120	0.01	02/06/12	WM
Magnesium	2.78	mg/L	EPA 200.7	0.03	02/06/12	WM
Nitrate-N	0.51	mg/L	SM 4110B	0.5	01/31/12	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	01/31/12	WM
Phosphorus, Total	0.132	mg/L	EPA 365.3	0.025	02/06/12	WM
Total Kjeldahl Nitrogen (N)	0.435	mg/L	SM 4500N B	0.04	02/02/12	AC
Total Nitrogen (N)	0.945	mg/L	SM 4500N	0.04	02/03/12	WM
Total Suspended Solids	40	mg/L	SM 2540	1	02/02/12	EB
Zinc	0.020	mg/L	SM 3120	0.01	02/06/12	WM

Comments:

Laboratory Supervisor

Date: 02/06/12

Walter Mueller

ND: Not Detected