City of Coeur d'Alene IDAHO

2017 NPDES ANNUAL REPORT

January 01, 2017 to December 31, 2017
Municipal Separate Storm Sewer System (MS4)
Federal Storm Water
National Pollutant Discharge Elimination System Permit
(IDS-028215)

Submitted To:
United States Environmental Protection Agency
NPDES Compliance Unit
1200 6th Avenue, Suite 900 (OCE-133)
Seattle, Washington 98101

&

Idaho Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, Idaho 83814

Submitted By:
City of Coeur d'Alene
710 E. Mullan Avenue
Coeur d'Alene, Idaho 83814

Report Certification

City of Coeur d'Alene NPDES Municipal Separate Storm Sewer System Annual Report for Permit Year 2017

"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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Tim Martin
Streets / Engineering / Drainage Utility
Superintendent

2.9.18
Date

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	Develop/update a comprehensive storm sewer system map (II.B.3.d)	Two years from the permit effective date
	Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste (II.B.3.e)	Two years from the permit effective date
	Screen 50% of outfalls for dry weather flows. (II.B.3.f)	No later than permit expiration date
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	Provide adequate direction to project proponents regarding the EPA Construction General Permit (II.B.4.b)	Upon permit effective date
	Adopt an ordinance or other control measure to require construction site operators to practice erosion, sediment and waste control (II.B.4.c)	Two years from the permit effective date
	Publish and distribute written requirements for construction site best management practices (II.B.4.d)	Two years from the permit effective date
	Develop, or review/update as necessary, procedures for reviewing pre-construction site plans & accepting public input and complaints (II.B.4.e & f)	Two years from the permit effective date
	Implement site inspection & enforcement procedures. Inspect all construction sites at least once per construction season. (II.B.4.g)	Two years from the permit effective date
	Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (II-B.4.h)	Upon permit effective date
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	Monitor the quality of storm water discharges from the MS4 / Conduct a storm water discharge monitoring program	18 months from the permit effective date
	Develop a quality assurance plan (QAPP) monitoring storm water discharge. Must be submitted for review to EPA and IDEQ	Quality Assurance Project Plan, developed, reviewed, signed, submitted February 09,2010

Information for Reviewers

This 2017 City of Coeur d'Alene Urbanized Area NPDES MS4 Annual Report is presented in a text format. This text document comprises the majority of the report and discusses each of the required reporting elements for the permit. Copies of the Annual Report will be available through the City of Coeur d'Alene website at www.cdaid.org or city hall.
The city annually evaluates the effectiveness of its SWMP activities to control the discharge of the pollutant(s) of concern.

Introduction

Region 10 of the U.S. Environmental Protection Agency (EPA) issued a draft National Pollutant Discharge Elimination System (NPDES) permit to the City of Coeur d'Alene Urbanized Area Municipal Storm Sewer Systems (MS4) on February 29, 2008. Following review by the City of Coeur d'Alene and meetings with local Idaho Department of Environmental Quality (IDEQ) and Region 10 EPA staff, and a public hearing, a final permit became effective on January 1, 2009 and expiring on December 31, 2013. Pursuant to 40 C.F.R. 122.21(d), the City of Coeur d Alene submitted a new permit application to EPA on May 30, 2013. We have on file a letter from EPA stating that our existing permit will remain effective and enforceable until EPA grants or denies our application for a new permit.

This report presents and documents the actions required by the permit and taken by the permittee for Year 9 reporting period (January 1, 2017 – December 31, 2017). Individual requirements of the permit are presented in the order of the permit outline. The report has been certified by the appropriate officials.

Quality Assurance Project Plan for Coeur d'Alene Urbanized Area

Quality Assurance Project Plan - As required by Part IV.A of the permit, the City of Coeur d'Alene developed, reviewed, signed and submitted a Quality Assurance Project Plan (QAPP) on February 09, 2010 for the water quality monitoring requirements of the permit (Part IV). The QAPP is included with our 2009, 2010 annual reports and as a link on our website.

Storm Water Management Program Review

The Coeur d'Alene Urbanized Area Storm Water Management Program (SWMP) review for the reporting year 2009 consists of developing a SWMP. The SWMP is designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, and to protect water quality in receiving waters. The SWMP actions and activities are outlined in the following pages of this 2017 Annual Report.

Public Education and Outreach		
Part II.B.1	1) Implement an ongoing public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in storm water runoff. (II.B.1.a)	Two years from effective date of this permit
	2) Distribute storm water educational materials to target audiences (II.B.1.b)	At least once per year
	3) Distribute SWMP information to local media (II.B.c)	At least once per year

1) Within two years of the effective date of this permit, the permittee must develop and implement a public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in storm water runoff.

The following is a list of events and manners in which we distributed stormwater educational materials and information.
We have partnered with other local agencies to share educational materials and event opportunities.

City of Coeur d Alene Website: Drainage Utility page contains stormwater information, projects and pollution prevention practices.

CDA TV Channel 19: The mission of CDA TV (Government/Public Education channel for the Greater Coeur d'Alene area) is to enhance the community's public information and communications system, involve the community in local government decision making, and provide useful local government/public education information to general and specialized audiences. The following were featured on our public channel in this permit year:

- EPA produced in cooperation with the US Botanical Garden organization video, "Reduce Runoff": was aired on our local channel 19, nine times per week in the month of October 2017.
- EPA produced "Coeur d'Alene Basin: Partnering with Community for a Successful Cleanup" was aired in the month of December 2017.

April 22, 2017
Earth Day, Library Community Room: This annual event was well attended. Approximately 100 participants visited our booth. We provided a stormwater educational interactive display, stormwater plinko game and distributed pollution prevention information.

May 17-18, 2017
Provided stormwater pollution prevention information at the annual Silverwood Science and Physics Days event. Approximately 1200 students from the region attended. Students had the opportunity to volunteer for litter pick up and storm drain stenciling.

Outdoor Classroom and Stormwater Demonstration Project (Completion 2018)

Project Description: This project will be to develop engineering design ideas for an outdoor classroom and stormwater management practices within a parks redevelopment setting within the city limits of Coeur d'Alene. Students will work directly with City of Coeur d'Alene staff (including engineering department), Coeur d'Alene Tribe Lake Management Engineer, and Welch Comer Engineering staff and engineers to provide design ideas for the City.

The outdoor classroom, also a living, working demonstration stormwater "best management practice" (BMP), will be located in a high-traffic nonmotorized recreational and commuter area adjacent to the Spokane River and will be designed to treat onsite stormwater. It is part of a larger stormwater treatment/BMP demonstration project. Multiple low-impact development (LID) design elements, including a living roof, permeable pavers, pervious concrete walkway, and riparian woody shrubs, will be built into the outdoor classroom as a multifaceted demonstration of the beauty and usefulness of LID design in home and business construction and renovation.

Many widespread misconceptions about water resources and the nature of stormwater demonstrably hamper agency pollution control efforts. No active demonstration projects highlighting fully functional stormwater treatment exist near popular park recreation areas in the

region. The outdoor classroom project has two overarching goals. One goal is to demonstrate the beauty, usefulness, and ecosystem services that LID (low-impact design) stormwater prevention measures provide. The second goal is to provide a space for research-based impactful environmental education programs to occur, something that is missing in the greater Coeur d'Alene (CDA municipal area.

The outdoor classroom itself is essentially a big stormwater BMP. 26 inches of rain will fall on the 0.25-acre site each year, resulting in the treatment of 176,503 gallons of stormwater on the site. This LID-themed classroom is part of a larger stormwater treatment/BMP demonstration project. Volume stormwater prevented from the adjacent stormwater bio infiltration swale that is incorporated into the site will be 48,097,225 gallons. Currently, stormwater flows from a neighborhood and two primary arterials into a ditch and then directly into the Spokane River. It is not treated to any measurable extent; a demonstration swale at the classroom site will treat all of this water, and our proposal will allow for future testing of inflow and post-treatment outflow (or ground infiltration). Partnering organizations are:

National Fish and Wildlife Foundation

Kootenai Aquifer Protection District

City of Coeur d'Alene (multiple departments including Parks and Recreation, Trails, Urban Forests, Wastewater, Stormwater, Engineering)

Coeur d'Alene Tribe Lake Management

Bureau of Land Management

Idaho Department of Environmental Quality Water Resources

University of Idaho Extension

University of Idaho Department of Civil Engineering

University of Idaho Department of Art and Design

University of Idaho Coeur d'Alene Center

Community Water Resources Center at U-Idaho CDA

Kootenai Environmental Alliance

Idaho-Washington Aquifer Collaborative

Welch-Comer Engineers

June 1-2, 2017
Participated in the first annual Coeur d'Alene Water Festival.

COEUR D'ALENE Water Festival

FACT SHEET

WHAT:	**FIRST ANNUAL COEUR D'ALENE WATER FESTIVAL**—the only comprehensive water education program for fifth-grade students in Coeur d'Alene, ID
WHEN:	Outdoor Field Trip: June 1 & June 2, 2017 Check in: 9AM Teaching Session: 10AM-1PM
WHERE:	McEuen Park, 420 E. Front Ave, Coeur d'Alene, ID
WHY:	To empower children with the knowledge to appreciate, respect and protect our water resources.
WHO ORGANIZES	Kootenai Environmental Alliance, U-Idaho Extension Water Outreach
WHO ATTENDS:	Fifth-grade students from Coeur d'Alene School District
WHO HELPS:	Over 50 natural resource professionals from local, state, federal and private organizations; college students; conservation groups; community members; plus High School students who guide the fifth-graders through the different instructional stations.
FIELD TRIP DAY:	Students have the opportunity to touch, see, hear, and creatively think about the dynamic world around them as they rotate through five different instructional themed stations: Fisheries, Watershed, Water Quality, Animal Tracks, and Nature Trekking
OUTCOMES:	Build awareness, knowledge and understanding of the area's natural resources. Promote water conservation and stewardship. Provide a geographical and historical perspective of the Coeur d'Alene Watershed. Promote community collaboration by involving a cross-section of natural resource professionals, schools, children, teens and adults in a shared environmental educational event.

2) At least once per year, the permittee must distribute appropriate storm water educational materials to the target audiences.

The City of Coeur d'Alene Engineering Department worked together with Panhandle Storm Water Erosion and Sediment Control Education Program (SEEP) to produce a field guide which includes storm water education materials. The guide is available to contractors and the public in

our customer service center at city hall. CGP handouts are also distributed in our customer service center. A basic best management practices for construction sites was developed and made available in our customer service center and is distributed in the field to on-site construction crews during this permit year.

Our volunteer storm drain stencil groups distributed pollution prevention information in the neighborhoods where they were stenciling.

June 5-6, 2017
Lake City High School students stenciled storm drains and picked up trash in our downtown core area.

September 10, 2017
Coeur d'Alene Bible Church groups stenciled 126 catch basins and picked up trash.

April 22, 2017
Hosted a booth at the annual Earth Day event held at the Coeur d' Alene library. Pollution prevention materials and a demonstration of how water is filtered were utilized.

May 17-18, 2017
Annual stormwater presentation at Silverwood Theme Park for regional area students. Using our enviroscape model and plinko aboard we presented a demonstration of how pollutants can enter our waters and how we can all prevent pollution. Storm water brochures with pollution prevention tips and clean water bracelets were distributed.

December 13, 2017
The City hosted a Developer Forum which supplied information in relation to site disturbance and best management practices. Over 30 members of the development community attended the forum along with 20 city staff members.

3) At least once per year, the permittee will prepare and distribute appropriate information relevant to the SWMP to the local newspaper and at least one other media outlet.

The City of Coeur d Alene stormwater program and events are featured on our website and facebook page.

Public Involvement and Participation		
Part II.B.2	1) Post all SWMP documentation and Annual Reports on the permittee's website (II.B.2.b)	Two years from permit effective date, ongoing thereafter
	2) Organize and promote Adopt a Street and Litter Pick Up Day(s) (II.B.2.c)	Once per year, each program
	3) Conduct public forum regarding SWMP activities (II.B.2.d)	At least once annually
	4) Create, maintain, and promote a telephone hotline; track complaints (II.B.2.e)	Within three years, ongoing thereafter
	5) Organize and conduct a storm drain stenciling program. At least 100 storm drains stenciled per year (II.B.2.f)	Within one year of the effective date of this permit Within two years of permit effective date, ongoing thereafter

1) The permittee must make all relevant SWMP documents and all Annual Reports required by this permit available to the public. Within two years of the effective date of this permit, all SWMP document and Annual Reports must be posted online through its regularly maintained website (or a website sponsored by the permittee).

The 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 & 2017 Annual Reports, Storm Water Management Program and Quality Assurance Protection Plan are posted on the City of Coeur d'Alene website and are available for review at the City of Coeur d Alene Streets & Engineering Department.

2) At least once per year, the permittee must organize and promote citizen participation in each of its Adopt a Street and Annual Litter Pick-up programs.

The Adopt-A-Street program was authorized by the City Council in August of 2000. The program is a partnership, which includes an adopting group, family, or individual. They pick up the trash, and the City provides signage, vests, and orange litter bags, and also collects the bags the next working day after they have been filled. A quarterly pick up of trash is encouraged with a minimum being twice per year. There are currently 31 Adopt-A-Street volunteer groups. During this permit year, 11.27 tons of trash was removed from our MS4 by our volunteers. This was an increase from 2016, which was 4.24 tons. Volunteer information for this program is available on the city website "volunteer" tab and on the City of Coeur d'Alene street department web page.

3) At least once per year, the permittee must conduct a public open house or other forum to solicit input from the public on the permittee's implementation of the SWMP activities.

April 22, 2017
The City of Coeur d'Alene partnered with several agencies in presenting stormwater management information and pollution prevention at both the Earth Day Event. We utilized our plinko game and a best management display to demonstrate how vegetation helps to filter stormwater. There were approximately 250 attendees with no written comments given. Our SWMP was available for review.

The City of Coeur d Alene website offers vistiors to the site the opportunity to contact the city in reference to drainage issues, questions or concerns.

4) Within three years of the permit effective date, the permittee will create, maintain, and promote a "hotline" telephone number to receive, track, and respond as necessary to information submitted by the public regarding storm water pollution concerns.

A hotline was established for reporting spills, illegal dumping or for stormwater questions and concerns. In addition to the hot line the city has an on line reporting tool on our website. The hot line phone number is posted on the city's website and on our educational materials. During the permit year we received 4 hot line calls, 3 e mails from citizens, 1 e mail from Panhandle Health District, 1 email from DEQ, 3 emails from Kootenai Environmental Alliance through our city web site and 4 reports from employees.

5) The permittee must organize promote and conduct a storm drain stenciling program. Within two years of the effective date of this permit, at least 100 storm drains, catch basins or inlets throughout the permittee's jurisdiction must be stenciled per year.

Our 2017 goal was exceeded thanks to our volunteers. Several groups including Lake City High School students and volunteer groups from University of Idaho, Coeur d'Alene Bible Church and Kootenai Environmental Alliance have stenciled or applied metal markers to over three hundred drains during this permit year. In addition to the stenciling they distributed door hangers in residential areas, providing stormwater education and pollution prevention tips. The volunteer groups also picked up trash in the neighborhoods they were stenciling. The program is promoted at outreach events and on the city's web site under the "volunteer" tab.


NO DUMPING
FLOWS TO LAKE

Illicit Discharge Detection and Elimination		
Part II.B.3	1) Development, implement and enforce a program to detect and eliminate illicit discharges into the MS4 (II.B.3.a)	Two years from the permit effective date
	2) Adopt an ordinance or other control measure to prohibit illicit discharges to the MS4(s); prohibit any specific non-storm water discharge, if necessary (II.B.3.b & c)	Two years from the permit effective date
	3) Develop/update a comprehensive storm sewer system map (II.B.3.d)	Two years from the permit effective date
	4) Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste (II.B.3.e)	Two years from the permit effective date
	5) Screen 50% of outfalls for dry weather flows. (II.B.3.f)	No later than permit expiration date
	6) Inventory the industrial facilities discharging storm water within the Urbanized Area (II.B.3.g)	Three years from the permit effective date

1) Within two years from the effective date of this permit, the permittee must develop and implement a program to detect and eliminate illicit discharges into their MS4, including roadways and associated drainage facilities, ditches, pipes, culverts, catch basins and retention ponds in its jurisdiction. This program must include written spill response procedures to ensure protection of the permittee's MS4. The program must include written procedures for detention, identification of the source, and removal of non-storm water discharges from the MS4. This program must also address illegal dumping into the MS4, and include training for City staff on how to respond to reports of illicit discharges. The permittee must develop an information management database system to track the activities and actions of the program in concert with the hotline required in Part II.B.2.

Our illicit discharge detection and elimination program outline was submitted with 2010 annual report. Municipal employees have received training in the recognition of and response to illicit discharges.

Spill prevention and containment refreshers are included as part of the annual training for staff members from Fire, Building, Parks, Police, Water, Wastewater, Recreation and Streets & Engineering Departments.

Information on reported illicit discharges and action taken is kept in our City Track database and with our code enforcement department. The city has developed a written standard operating procedure for prioritizing illicit discharges and stormwater complaints and concerns. City staff has been directed to code entries into our "city track" database reporting system as "high" priority. Our system will notify designated staff and the appropriate priority ranking of the call

will be assigned. This approach enables all city staff to take the calls and appropriate staff to rank the priority.

High Priority (Immediate action is required)

- Spills / Accidents
- Intentional Dumping
- Leaking automotive fluids
- Public Health and Safety Issues

Medium Priority (3-5 day response)

- Cross connection between a sanitary sewer and a storm sewer
- Failing septic system that is causing surface discharge into the storm sewer
- Sanitary waste piping that is directly connected from a home or business to the storm sewer
- Shop floor drain that is connected directly to a storm sewer

Low Priority (5-10 day response)

- Slow draining catch basin*
- Slow draining or plugged grassed infiltration area*

**if flooding is occurring on street or private property that is a safety concern or threat to property damage, upgrade priority to high*

During this permit year we increased the amount of video of our storm lines to aid in the identification of lateral intrusions.

2-1) Within two years from the effective date of this permit, the permittee must effectively prohibit non-storm water discharges into the MS4 through an ordinance or other regulatory mechanism to the extent allowable under State or local law. The permittee must implement appropriate enforcement procedures and actions, including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders.

Ordinance 3455 amending the municipal code of the City of Coeur d'Alene, Kootenai County, Idaho adopting a new chapter 13.32, Entitled Illicit Discharge and Stormwater Sewer Connection, to provide for regulation of all water directly or indirectly entering the city stormwater system, including definitions, discharge regulation, monitoring and reporting requirements, prohibiting illicit connections and providing that any violation of the chapter is a misdemeanor punishable by a fine of not more than $1,000.00 or by imprisonment not to exceed 180 days or both.

2-2) Through the ordinance or other regularly mechanism set forth in Section II.B.3.b, the permittee must prohibit any of the non-stormwater flows listed in Part I.C.1.c only if such flows are identified (by EPA or the permittee) as a source of pollutants to the MS4. The permittee must document to EPA in the Annual Report

any existing local controls or conditions placed on the types of non-storm water discharges in Part I.C.1.c.

The City of Coeur d' Alene, Ordinance 3455, prohibits all non-storm water discharges to the MS4 with the exception of discharges detailed in our NPDES permit Part 1.C.1.c.

3) Within two years from the effective date of this permit, the permittee must update and complete its comprehensive MS4 map. At a minimum, the map(2) must show jurisdictional boundaries, the location of all City-owned or operated storm sewers, culverts, ditches, and other conveyances, the location of all inlets and outfalls, points at which the permittee' s MS4 is interconnected with other MS4s, names and locations of all waters that receive discharges from those outfalls, and locations of all municipally-owned or operated facilities, including all maintenance/storage facilities and public or private snow disposal sites. Locations of all outfalls must also be provided in latitude and longitude, and the diameter of all outfalls must be provided with the map. The maps must be available in electronic or digital format as appropriate. A copy of the completed map(s), as both a report and as an electronic file via Arc GIS format, must be submitted to EPA and IDEQ as part of the corresponding Annual Report.

The City of Coeur d'Alene MS4 map was updated in 2017 and is being submitted with this report.

4) Within two years from the effective date of this permit, the permittee must begin an ongoing education program to inform users of the MS4, especially public employees, businesses, and the general public, of hazards associated with illegal discharges and improper disposal of waste. This program must be conducted in concert with the public education requirements outlined in Part II.B.1.

The City of Coeur d Alene utilizes our public television station to present stormwater pollution prevention and awareness during each permit year.

Municipal storm water pollution prevention training, which includes spill containment and illicit discharge detection were covered during this permit year by the following departments: Administration, Engineering, Finance, Human Resources, Legal, Building, Engineering, Police, Fire, Water, Wastewater, Streets and Parks Department staff.

Pollution prevention materials are distributed in neighborhoods as storm drains were being stenciled.

Information on illicit discharge and proper disposal of hazardous waste is distributed at our educational events and on our website. We have a link on our website to the Kootenai County Solid Waste Department for hazardous waste disposal information.

During this permit year we began coordinating with Kootenai Environmental Alliance to develop pollution prevention handouts to businesses such as carpet cleaners and restaurants with a focus on areas located within the hard pipe areas.

5) Within three years from the effective date of this permit, the permittee must begin dry weather field screening for non-storm water flows from all storm water outfalls. By the expiration date of the permit, at least 50% of the permittee' s outfalls within the Coeur d'Alene Urbanized Area must be screened for dry weather flows. The screening should include field tests of selected parameters as indicators of discharge sources. Screening level tests may utilize less expensive "field test kids" using test methods not approved by EPA under 40 CFR Part 136, provided the manufacturer's published detention ranges are adequate for the illicit discharge detention purposes. The permittee must investigate any illicit discharge within fifteen (15) days of its detection, and must take action to eliminate the source of the discharge within 45 days of its detention.

July & August 2017, Dry weather field screening was conducted on all of our outfalls. All but one of the outfalls were dry. The outfall with flow was due to irrigation.
There were no indications of any illicit discharges were discovered during the screenings. Our video system is also used in illicit discharge detection and investigation.

6) Within three years from the effective date of this permit, the permittee must inventory all industrial facilities that discharge directly to the permittee' s MS4 or directly to waters of the United States located within the Coeur d'Alene Urbanized Area and submit this inventory as part of the corresponding Annual Report. The types of industrial facilities that must be inventoried are set forth in 40 CFR §122.26(b)(14)(i-ix) and (xi). This inventory must include the location of the facility, the location of its outfall, and the NPDES permit status for its storm water discharges.

This requirement was met in the 2011 permit year. There was only one business identified that met the criteria of this permitting requirement; Deming Industries located at 2945 N. Government Way in Coeur d'Alene, Outfall#11.
The research for this program requirement utilized information from our wastewater department, Panhandle Health, Kootenai Environmental Alliance, City of Coeur d Alene building permit data and EPA's NOI site. No industrial facilities were added in 2017.

Construction Site Storm Water Runoff		
Part II.B.4	1) Implement and enforce a construction site runoff control program for sites disturbing one or more acres of land; review and update the program as necessary (II.B.4.a)	Two years from the permit effective date, ongoing thereafter
	2) Provide adequate direction to project proponents regarding the EPA Construction General Permit (II.B.4.b)	Upon permit effective date
	3) Adopt an ordinance or other control measure to require construction site operators to practice erosion, sediment and waste control (II.B.4.c)	Two years from the permit effective date
	4) Publish and distribute written requirements for construction site best management practices (II.B.4.d)	Two years from the permit effective date
	5) Develop, or review/update as necessary, procedures for reviewing pre-construction site plans & accepting public input and complaints (II.B.4.e & f)	Two years from the permit effective date
	6) Implement site inspection & enforcement procedures. Inspect all construction sites at least once per construction season. (II.B.4.g)	Two years from the permit effective date
	7) Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (II-B.4.h)	Upon permit effective date
	8) Conduct at least one training for construction industry (II.B.4.i)	Three years from the permit effective date

1) Within two years from the effective date of this permit, the permittee must implement and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction activities resulting in land disturbance of greater than or equal to one area. This program must also include controls for pollutants in such storm water discharges from activity disturbing less than one acre, if that construction activity is part of a larger common plan of development or sale that disturbs one acre or more.

Ordinance 3455, adopted December 04, 2012 amending the municipal code of the City of Coeurd'Alene,,KootenaiCounty,,Idaho,,Amending.Sections 13.30.010,13.30.020,13.30.040,13.30.050,13.30.606 and adopting a new section 13.30.075 to the Stormwater Management Ordinance to provide additional definitions, adopting additional standards for erosion, sediment and construction waste control and providing for inspections; repealing all ordinances and parts of ordinances in conflict herewith and providing a severability clause. Complete ordinance is available on the City of Coeur d Alene website.

2) The permittee must provide appropriate information and direction to representatives of proposed new development and redevelopment construction projects concerning the NPDES General Permit for Storm Water Discharges for Construction Activity in Idaho, #IDR 10-0000 (Construction General Permit).

The "Notice to Contractors" is located on our City of Coeur d'Alene website, is posted in the customer service center at city hall and has been electronically distributed to the North Idaho Building Contractors Association. The information is also included in all project reviews packets. The notice is include with the 2009 and 2010 annual reports and is available on our website. Also, available in our customer service center is an E.P.A produced brochure; "Does Your Construction Site Need A Stormwater Permit."
Engineering project reviews include notification to the applicant of this requirement.

3) Within two years from the effective date of this permit, the permittee must adopt an ordinance or other regulatory mechanism to the extent allowable under state or local law that requires all construction site operators to practice appropriate erosion, sediment and waste control. This ordinance or regulatory mechanism must include sanctions to ensure compliance. The permittee may evaluate any existing procedures, policies, and authorities pertaining to activities occurring on their property that may be used to assist in the development of the required regulatory mechanism.

Ordinance No. 3455, Municipal Code 13.30.010-13.30.130 addresses this permit requirement. The complete ordinance was submitted with our 2012 annual report and is available on our website.

4) Within two years from the effective date of this permit, the permittee must publish and distribute requirements for construction site operators to implement appropriate erosion and sediment control BMPs and to control waste (such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at a construction site) that may cause adverse impacts to water quality.

October 05, 2010 The City of Coeur d'Alene Resolution No. 10-038 adopting the Idaho Department of Environmental Quality Best Management Practices as the city's BMP's. The information was presented at public works, city council meeting, North Idaho Building Contractors Association and mailed to builders, contractors, landscaper and architects. The information is also on our website and posted in the customer service center, provided at project reviews and distributed during inspection.

5-1) Within two years from the effective date of this permit, the permittee must develop procedures for reviewing all pre-construction site plans for potential water quality impacts, including erosion and sediment control, control of other wastes, and any other impacts according to the requirements of the law, ordinance, or other enforceable mechanism created to comply with Part II.B.4.c. These procedures must include provisions for receipt and consideration of information submitted by the public.

Ordinance 3455, 13.30.040 states that storm water management plans are required for all land disturbing building permits and provides for exceptions. The plans are reviewed and approved as a condition of issuance of the permits. All required erosion and sediment controls will be included on the stormwater management plans and reviewed and approved by City engineer or his designee. In addition, these plans will be made available to the public for input.
Inspection of construction sites will be performed at least once per construction season and after a rain event to ensure placement and proper functioning of required erosion control elements.
During the 2017 construction season sites were inspected prior to site disturbance, after a storm event and before the issuance of a certificate of occupancy.

5-2) Within two years from the effective date of this permit, the permittee must implement a program to receive, track, and review information submitted by the public regarding construction site erosion and sediment control complaints.

The City of Coeur d Alene Drainage System Utility established a stormwater hotline and an on-line communication link. The hotline number is included in our educational handouts, on our website, included in our municipal training and has been included in several newspaper articles. The reporting and tracking program includes an on line reporting form and database to track and save information. If a complaint is called in or given in person, the staff member taking the information will enter it into our "City Track" system for appropriate action and documentation. There were no construction site erosion and sediment control complaints received from the public in 2017.

6) Within three years from the effective date of this permit, the permittee must develop and implement procedures for site inspection and enforcement of control measures established as required in Parts II.B.4.c and d, including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders. The permittee must inspect all construction sites in their jurisdiction for appropriate erosion/sediment/waste control practices as least once per construction season.

Storm water Management, Ordinance 3455, Municipal Code 13.30.080, Inspections

Prior to site inspection, plans are reviewed to confirm stormwater management plan requirements. During on- site inspection, all bmp's are evaluated to ensure proper installation and functionality.
Any bmp's that are found to be incorrectly installed or missing will be noted and a correction notice given to the person in charge at the site. If no one is available on site, a correction notice will be left and a call will be placed to the permit applicant. The correction notice will state the amount of time allowed for permittee to comply. An additional inspection will be made to ensure corrections have been addressed. If compliance is not achieved a stop work order is issued.
During this permit year, 1079 erosion/sediment and waste control inspection were completed. Of those inspections 61 correction notices were issued. All construction sites in the city were inspected a minimum of two times; prior to site disturbance and on final inspection before the issuance of a certificate of occupancy. Sites were also inspected after a storm event.

7) The permittee must comply with the Construction General Permit and all relevant local requirements for erosion, sediment and onsite materials control on public construction projects. The permittee must ensure that all contractors working on behalf of the permittee are complying with the Construction General Permit and all relevant local requirements for erosion, sediment, and onsite materials control on construction projects. The permittee must incorporate specific language in all contracts ensuring appropriate storm water management on all public construction projects.

It is the City of Coeur d'Alene policy that all projects disturbing over 1 acre of ground must obtain an NPDES general permit and comply with the permits requirements for erosion, sediment and on site materials control. Additionally, it is the City's policy that all projects disturbing any ground must implement and be inspected for erosion, sediment control and material handling and storage BMP's. This requirement is included in the approved plans for projects.

8) Within three years from the effective date of this permit, the permittee must develop and conduct at least one training session for the local construction/design/engineering audience related to the construction ordinance and BMP requirements referenced in Parts II.B.4.c and d.

The city has hosted three development forums which provided best management practices and requirements for construction sites. At the events we also provided an EPA produced educational handout, "How Do I Get Stormwater Permit Coverage for My Construction Site." available in our customer service center.

Post-Construction Storm Water Management in New Development and Redevelopment		
Part II.B.5	1) Develop and implement a program to address post-construction storm water runoff from new development and redevelopment projects (II.B.5.a)	Three years from the permit effective date
	2) Adopt an ordinance to address post-construction runoff from new development and redevelopment projects (II.B.5.b)	Three years from the permit effective date
	3) Ensure proper long term operation and maintenance of post construction storm water BMPs. (II.B.5.c)	Three years from the permit effective date
	4) Develop and implement a site plan review process and site inspection program to ensure proper installation and long-term operation and maintenance of post-construction storm water management controls (II.B.5.d)	Four years from the permit effective date

1) **Within three years from the effective date of this permit, the permittee must implement and enforce a program to address post-construction storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale) and that result in discharge into the permittee's MS4. The program must ensure that controls are enacted that will prevent or minimize water quality impacts from newly developed or redeveloped areas.**

Ordinance 3455, Municipal Code 13.32.010-13.32.140 addresses all items listed in this required action. The complete ordinance was included with the 2012 annual report and is available on our website.

2) **Within three years from the effective date of this permit, the permittee must adopt an ordinance or other regulatory mechanism to the extent allowable under State or local law to address post-construction runoff from new development and redevelopment projects. If such requirements do not currently exist, development and adoption of an ordinance is required. The permittee may evaluate existing procedures, policies, and authorities pertaining to activities occurring on their property that may be used to assist in the development of the required regulatory mechanism.**

Ordinance 3455, Municipal Code 13.32.010-13.32.140 addresses all items listed in this required action. The complete ordinance was included with the 2012 annual report and is available on our website.

3) Within three years from the effective date of this permit, the permittee must ensure proper long term operation and maintenance of all permanent storm water management controls located within its jurisdiction.

As part of the City's storm water facilities and conveyances maintenance plan, inspections are performed annually. The results are used to plan the appropriate measures necessary to ensure proper long term operation. The city utilizes green alternatives when able to manage and maintain stormwater swales and detention areas. Street sweeping, line jetting and catch basin debris removal are on-going best management practices.

Video of Storm Lines: 21252 feet
Catch Basins Cleaned: 2350
Street Sweeping: Approximately 5000 miles
Tonnage of debris removed from sweeping and catch basin cleaning: Approximately 2200 tons
Swale Inlet Maintenance: 1200 scuppers along arterials and in residential areas

4) Within four years from the effective date of this permit, the permittee must develop and implement a process for pre-construction plan review of permanent storm water management controls and inspection of such controls to ensure proper installation and appropriate long-term operation and maintenance.

The City of Coeur d Alene has utilized a pre-construction plan review process since the early 1980's. In relation to stormwater management controls and inspections, the following is our procedure:

- A stormwater management plan is required with the plan submission.
- The City engineering staff review the submission for bmp's and permanent stormwater management controls, with final approval by the City Engineer.
- Site Inspections are performed prior to permit issuance and prior to certificate of occupancy.
- The applicant is required to submit a percolation test and a letter signed by the design professional stating that the swales were constructed in accordance with their recommendations.

Pollution Prevention and Good Housekeeping for Municipal Operations		
Part II.B.6	1) Develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations (II.B.6.a)	Two years from the permit effective date
	2) Develop and conduct appropriate training for municipal personnel (II.B.6.b)	Two years from the permit effective date, annually thereafter
	3) Prepare storm water pollution prevention plans for the fleet maintenance/street department site and the water treatment plant (II.B.6.c)	Two years from the permit effective date

1) Within two years from the effective date of this permit, the permittee must develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations. This program must address municipal activities occurring within the permittee' s jurisdiction with potential for negative storm water related water quality impacts, including: the use of sand and road deicers; fleet maintenance and vehicle washing operations; street cleaning and maintenance; grounds/park and open space maintenance operations; building maintenance, solid waste transfer activities; water treatment plant operations; storm water system maintenance; and snow disposal site operation and maintenance. Examples of other municipal activities which may also be evaluated as relevant to the jurisdiction include, but are not limited to: materials storage; hazardous materials storage; used oil recycling; spill control and prevention measures for municipal refueling facilities; municipal golf course maintenance; municipal new construction and land disturbances; and snow removal practices.

During this permit year the City of Coeur d'Alene has utilized an evolving guide for the operations and activities of our departments with the potential for negative storm water quality impacts. Our focus is to identify and evaluate our existing best management practices in our municipal operations and activities to determine areas for improvement.

Each department within the City has operations and maintenance procedures that are designed and evaluated to ensure we are implementing BMP's in relation to our municipal operations. There are 17 city employees that hold a Stormwater & Erosion Educational Program certification. During the 2017 permit year three inspectors achieved Certified MS4 Compliance & Enforcement Inspector status.
Individual departments within the City have operations and maintenance procedures that are designed and evaluated to ensure we are implementing BMP's in relation to municipal operations.

Existing Best Management Practices for Pollution Prevention

Water Department:

Employees have received training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

Supervisor performs storm water pollution potential evaluation on site prior to commencement of operations, repair or maintenance projects

Appropriate BMP's are utilized in to water line construction, repair and maintenance activities

Spill Kits in vehicles

Street Department:

Annual training has been conducted for street department personnel related to optimal maintenance practices for the protection of water quality. One of the integral parts of street maintenance involves sweeping of debris before the deposits can enter the storm system. The street department delivers an aggressive street sweeping program to improve air and water quality

City wide leaf pick up: Approximately 1800 tons of leaves were removed from city streets in this permit year.

CSB to enhance salt brine de-icer, which results in less salt used on roadways.

The city currently establishes snow dumpsites within its corporate boundary. These sites are established based on needed volume of storage for specific areas of the city and to minimize possible snowmelt discharges directly to the waters of the U.S. Ideally these sites encourage ground infiltration of storm water and filtering across established vegetation during gradual spring snowmelt.

BMP's applied to construction and repair projects

Spill Kits in vehicles

Annual training includes storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

Eight department employees have completed a SEEP training class (Storm water Erosion Education Program)

Partners with Urban Forestry in the tree trimming program, for enhanced sweeping clearance

Vehicle wash water discharges to sanitary sewer. Drain is equipped with an oil water separator that is cleaned yearly

Use of sand and road deicers, including storage locations of and/or amounts used of deicing salts and/or abrasives,
The City of Coeur d'Alene uses both road deicers and sand sparingly with the focus on safety to the community. Deicers are used on arterial streets where volumes of traffic help carry the product. This allows use to be kept to a minimal amount. Temperatures above 18 degrees are optimum.
Sand is used only when roads become glazed with ice. Normally this will occur in residential side streets and that time we treat only major stops coming onto arterials; hills and tight corners.
Last year we used 102,000 gallons of deicer and 690 tons of sand.
We make and store our own deicer; the site has a secondary containment feature. We have only one storage site and it is here at the corporate shop at 3800 Ramsey Road. This site is monitored by the Idaho Panhandle Health District

Fleet Maintenance and vehicle car washing
The shop includes a vehicle maintenance washing facility. All vehicles brought to this site including patrol vehicles are cleaned after servicing. This bay is goes in to the wastewater pipe that is cleared through the treatment plant. The steam cleaner site is drained into an oil/ water sump that is cleaned yearly by a disposal company.

Parks Department:

The Parks department fertilizes the turf with half of the recommended rate and applied 6 times in the season instead of the 3 applications as was done in the past. The idea was to control the growth rate of the grass and not waste fertilizer that may have been leached out due to rain or irrigation.

Promotion and organization of Community Bike to Work Week

Employee training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

9 Employees have a Professional Applicators License issued by the Idaho Department of Agriculture to handle and apply pesticides and herbicides

Soil sampling before fertilizer application

Water Conservation Irrigation Systems

Installation of Pet Waste Dispensers; there are a total of 20 within the city.

Trash pick-up along all City managed bike paths and hiking trails year round (except when snow is on the ground). Trash is picked up 3 times a week in the summer, two times a week in the colder seasons, and once a week in the winter

Public trees planted in 2017: 472 trees and 200 seedlings (within the right of way or in parks)

The Parks Department provides support for tree health and pruning educational programs

All trails are mowed and tree limbs trimmed up regularly in the spring, winter, and fall. The Parks Department promotes an educational program to encourage increased use of the trail system

Parks / Cemetery Shop were issued a Critical Materials Compliance Certificate from Panhandle Health Districts Aquifer Protection Program

Waste Water Department

Employee training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

All on-site storm water is processed with the sanitary sewer before discharge

Treatment Plant operates under NPDES permit ID-002285-3

Treatment Plant has a Critical Materials Compliance Certificate, issued by Panhandle Health Districts Aquifer Protection Program

Fire Department

The Coeur d Alene Fire Department provides Hazardous Material responses at the Operations Level. At this level of training, all firefighters are trained to recognize a potential Haz-Mat incident, isolation of the incident, identify exposures, identify safety hazards to the public & responders, determine possible evacuations, take a defensive approach by possibly shutting off the source and protecting drains without coming in contact with the material or product.

- Initial Operations Level Training consists of 40 hours of Hazardous Materials Training and 8 hours of annual continuing education for all personnel.
- Annual Storm Water education (DVD based) provided by the City of Coeur d Alene.

Response Materials

- The CDA Fire Department stocks a ready supply of 3 ½" (10") absorbent tubing for the use of diking and containment booming on the water.
- A ready supply on responding units of absorbent pads (16"x16".)
- 5 gallons of absorbent for fluid hazards.
- Emergency response guide book in all response apparatus.

Additional Resources

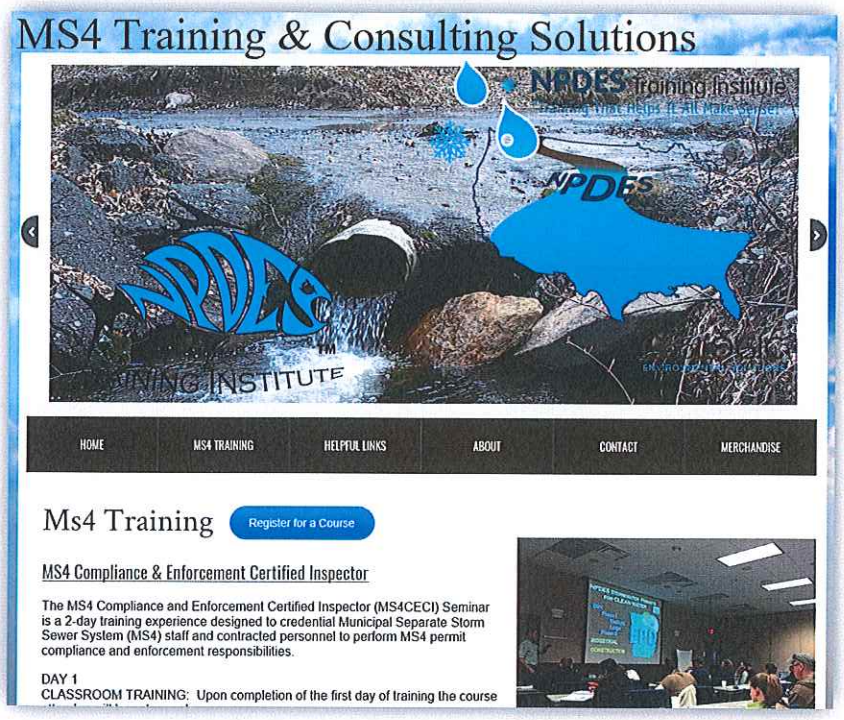
- State of Idaho Hazardous Materials Team is located at Kootenai County Fire & Rescue, which is based within the City of Coeur d Alene. They provide Technician, Specialist & Incident Commander level services. They are activated through Boise State Communications if and when our Chief Officers determine the spill level to exceed our capabilities.

2) Within two years from the effective date of this permit and annually thereafter, the permittee must develop and conduct appropriate training for municipal employees related to optimum maintenance practices for protection of water quality. This training must be conducted at least once annually and address the activities specified in Part II.B.6.a.

Individual departments address best management practices in relation to their job tasks as a standing topic in their staff meetings. Appropriate city staff receives annual refresher courses on spill control & containment and illicit discharge detection. Streets and Engineering staff continually utilize the EPA website for training in relation to the permit components. Staff has attended presentations from EPA representatives on the Construction General Permit requirements.

During this permit year training that addresses pollution prevention, spill prevention and illicit discharge detection was presented to field project management, street department staff and inspectors.

Appropriate staff has received SEEP (stormwater erosion education program) certifications.



During this permit year, three staff members completed an MS4 Compliance & Enforcement Certified Inspector Seminar through the NPDES Training Institute.

3) Within two years from the effective date of this permit, the permittee must prepare and implement storm water pollution prevention plans for the permittee' s fleet maintenance/street department site and waste water treatment plant.

The Street / Fleet Maintenance Department are not located on or near the storm water conveyance system. Although not located near the conveyance system, our street department has developed best management practices in relation to pollution prevention. Routine maintenance and vehicle washing on site is performed indoors and any discharge from these activities goes to the sanitary sewer. Secondary containment and covered storage is implemented where necessary. The street department is inspected by the Panhandle Health District Aquifer Protection Program and was issued a Critical Materials Compliance Certificate.

The City's Waste Water Treatment Plant captures all on-site storm water and processes it as it does sanitary sewer. The plant operates under their own NPDES permit number ID-002285-3, which was issued May 13, 2004 and has been administratively extended by EPA Region 10. The plant is also inspected by the Panhandle Health District Aquifer Protection Program and was issued a Critical Materials Compliance Certificate.

Monitoring Requirements		
Part IV.A.2	Evaluate City's compliance with the identified BMP's and progress toward achieving the minimum control measures and document in each annual report	Two years from the permit effective date
	Monitor the quality of storm water discharges from the MS4 / Conduct a storm water discharge monitoring program	18 months from the permit effective date
	Develop a quality assurance plan (QAPP) monitoring storm water discharge. Must be submitted for review to EPA and IDEQ	Quality Assurance Project Plan, developed, reviewed, signed, submitted February 09,2010

1) **Within 1 year from the effective date of this permit, the permittee must develop a monitoring plan that includes the quality assurance requirements defined in Part IV.A.6. The permittee must develop and implement a monitoring program to:**

   a) **estimate the pollutant loading currently discharged from the MS4**

   b) **assess the effectiveness and adequacy of control measures implemented through this permit; and**

   c) **identify and prioritize those portions of the MS4 requiring additional controls**

During this permit year eight samples were collected, four from each of our monitoring stations. Additional sampling years are needed to assess the effectiveness and adequacy of the control measures implemented in the permit. Additional data collection / evaluation are necessary to determine the need for additional control actions and to determine the priority of actions. We have increased sweeping, performed leaf pick up and litter control in hard pipe area

2) **No later than 18 months from the effective date of this permit, the permittee must conduct a storm water discharge monitoring program which meet the following minimum requirements:**

   a) **the permitee must sample at least one storm water outfall discharging to the Spokane River, and at least one storm water outfall discharging to Lake Coeur d'Alene, each representing the largest or highest flow discharges from the MS4**

   b) **the permitee must monitor the storm water discharges for the pollutants as identified in Table IV.A.**

The City began our program with the installation of two automatic monitoring stations. Station 1, discharges to Lake Coeur d Alene and Station 2, discharges to the Spokane River. During this permit year four samples were collected from each station. The lab results from those samples are on the following pages.

www.svl.net One Government Gulch - PO Box 929 Kellogg ID 83837-0929 (208) 784-1258 Fax (208) 783-0891

City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: **X7C0568**
Reported: 10-Apr-17 14:34

Client Sample ID: **Station 1 (19th St)**
SVL Sample ID: **X7C0568-01 (Other)**

Sample Report **Page 1 of 1**

Sampled: 27-Mar-17 07:46
Received: 27-Mar-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	4.41	mg/L	0.100	0.021		X713114	DT	04/10/17 09:30	
EPA 200.7	Lead	0.0093	mg/L	0.0075	0.0018		X713114	DT	04/10/17 09:30	
EPA 200.7	Magnesium	1.79	mg/L	0.20	0.04		X713114	DT	04/10/17 09:30	
EPA 200.7	Zinc	0.082	mg/L	0.010	0.001		X713114	DT	04/10/17 09:30	
SM 2340B	Hardness (as CaCO3)	18.4	mg/L	1.07	0.212		N/A		04/10/17 09:30	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	< 0.50	mg/L	0.50	0.11		X713155	SM	03/30/17 16:48	
SM 2540 D	Total Susp. Solids	109	mg/L	5.0			X713117	RS	03/29/17 09:40	
SM 4500-P-E	Phosphorus	0.162	mg/L	0.010	0.004		X713140	SM	03/29/17 17:33	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: X7C0568
Reported: 10-Apr-17 14:34

Client Sample ID: **Station 2 (Bellerive)**
SVL Sample ID: **X7C0568-02 (Other)**

Sample Report Page 1 of 1

Sampled: 27-Mar-17 07:22
Received: 27-Mar-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	4.87	mg/L	0.100	0.021		X713114	DT	04/10/17 09:33	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0018		X713114	DT	04/10/17 09:33	
EPA 200.7	Magnesium	1.63	mg/L	0.20	0.04		X713114	DT	04/10/17 09:33	
EPA 200.7	Zinc	0.085	mg/L	0.010	0.001		X713114	DT	04/10/17 09:33	
SM 2340B	Hardness (as CaCO3)	18.9	mg/L	1.07	0.212		N/A		04/10/17 09:33	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	0.53	mg/L	0.50	0.11		X713155	SM	03/30/17 16:57	
SM 2540 D	Total Susp. Solids	289	mg/L	5.0			X713117	RS	03/29/17 09:40	
SM 4500-P-E	Phosphorus	0.634	mg/L	0.010	0.004		X713140	SM	03/29/17 17:33	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

Anatek Labs, Inc.

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Client: COEUR D`ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
COEUR D`ALENE, ID 83814
Attn: KIM HARRINGTON

Batch #: 170329041
Project Name: SVL #X7C0568

Analytical Results Report

Sample Number	170329041-001	**Sampling Date**	3/27/2017	**Date/Time Received**	3/29/2017 11:55 AM
Client Sample ID	STATION 1 (19TH ST)	**Sampling Time**	7:46 AM	**Extraction Date**	4/9/2017
Matrix	Water	**Sample Location**	X7C0568-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 170329041-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	65.6	30-130

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Client: COEUR D`ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
COEUR D`ALENE, ID 83814
Attn: KIM HARRINGTON

Batch #: 170329041
Project Name: SVL #X7C0568

Analytical Results Report

Sample Number	170329041-002	**Sampling Date**	3/27/2017	**Date/Time Received**	3/29/201711:55 AM
Client Sample ID	STATION 2 (BELLERIVE)	**Sampling Time**	7:22 AM	**Extraction Date**	4/9/2017
Matrix	Water	**Sample Location**	X7C0568-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.2	4/10/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 170329041-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	53.8	30-130

Authorized Signature

Todd Taruscio, Lab Manager

Anatek Labs, Inc.

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Client: COEUR D`ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
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Attn: KIM HARRINGTON

Batch #: 170329041
Project Name: SVL #X7C0568

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Aroclor 1260 (PCB-1260)	3.46	ug/L	5	69.2	50-130	4/9/2017	4/10/2017
Aroclor 1016 (PCB-1016)	5.16	ug/L	5	103.2	50-130	4/9/2017	4/10/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	4/9/2017	4/10/2017
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	4/9/2017	4/10/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: X7I0422
Reported: 29-Sep-17 11:34

Client Sample ID: **Station 1 (19th St)**
SVL Sample ID: **X7I0422-01 (Other)**

Sample Report Page 1 of 1

Sampled: 18-Sep-17 08:04
Received: 18-Sep-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	6.26	mg/L	0.100	0.020		X738203	AS	09/27/17 14:02	
EPA 200.7	Lead	0.0110	mg/L	0.0075	0.0026		X738203	AS	09/27/17 14:02	
EPA 200.7	Magnesium	2.21	mg/L	0.20	0.05		X738203	AS	09/27/17 14:02	
EPA 200.7	Zinc	0.104	mg/L	0.010	0.002		X738203	AS	09/27/17 14:02	
SM 2340B	Hardness (as CaCO3)	24.7	mg/L	1.07	0.252		N/A		09/27/17 14:02	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	1.55	mg/L	0.50	0.06		X739016	SCM	09/25/17 14:30	
SM 2540 D	Total Susp. Solids	83.0	mg/L	5.0			X738197	PRM	09/20/17 09:10	
SM 4500-P-E	Phosphorus	0.494	mg/L	0.010	0.004		X739087	SM	09/26/17 16:06	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray
Technical Director

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: **X7I0422**
Reported: 29-Sep-17 11:34

Client Sample ID: **Station 2 (Bellerive)**
SVL Sample ID: **X7I0422-02 (Other)**

Sample Report Page 1 of 1

Sampled: 18-Sep-17 07:32
Received: 18-Sep-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	7.32	mg/L	0.100	0.020		X738203	AS	09/27/17 14:06	
EPA 200.7	**Lead**	<0.0075	mg/L	0.0075	0.0026		X738203	AS	09/27/17 14:06	
EPA 200.7	**Magnesium**	2.54	mg/L	0.20	0.05		X738203	AS	09/27/17 14:06	
EPA 200.7	**Zinc**	0.136	mg/L	0.010	0.002		X738203	AS	09/27/17 14:06	
SM 2340B	**Hardness (as CaCO3)**	28.8	mg/L	1.07	0.252		N/A		09/27/17 14:06	
Classical Chemistry Parameters										
ASTM D-5176	**Total Nitrogen**	1.73	mg/L	0.50	0.06		X739016	SCM	09/25/17 14:42	
SM 2540 D	**Total Susp. Solids**	69.0	mg/L	5.0			X738197	PRM	09/20/17 09:10	
SM 4500-P-E	**Phosphorus**	0.400	mg/L	0.010	0.004		X739087	SM	09/26/17 16:06	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray
Technical Director

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Client:	COEUR D`ALENE WASTEWATER DEPT	**Batch #:**	170920003
Address:	710 MULLAN- CITY HALL	**Project Name:**	SVL #X7I0422
	COEUR D`ALENE, ID 83814		
Attn:	KIM HARRINGTON		

Analytical Results Report

Sample Number	170920003-001	**Sampling Date**	9/18/2017	**Date/Time Received**	9/20/2017 10:23 AM
Client Sample ID	STATION 1 (19TH ST)	**Sampling Time**	8:04 AM	**Extraction Date**	9/25/2017
Matrix	Water	**Sample Location**	X7I0422-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 170920003-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	70.4	30-130

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Client:	COEUR D`ALENE WASTEWATER DEPT	**Batch #:**	170920003
Address:	710 MULLAN- CITY HALL	**Project Name:**	SVL #X7I0422
	COEUR D`ALENE, ID 83814		
Attn:	KIM HARRINGTON		

Analytical Results Report

Sample Number	170920003-002	**Sampling Date**	9/18/2017	**Date/Time Received**	9/20/2017 10:23 AM
Client Sample ID	STATION 2 (BELLERIVE)	**Sampling Time**	7:32 AM	**Extraction Date**	9/25/2017
Matrix	Water	**Sample Location**	X7I0422-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.8	10/2/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 170920003-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	75.4	30-130

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Client: COEUR D'ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
COEUR D'ALENE, ID 83814
Attn: KIM HARRINGTON

Batch #: 170920003
Project Name: SVL #X7I0422

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
PCB (total)	10.1	ug/L	10	101.0	30-130	9/25/2017	10/1/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
PCB (total)	9.79	ug/L	10	97.9	3.1	0-50	9/25/2017	10/1/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	9/25/2017	10/1/2017
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	9/25/2017	10/1/2017
PCB (total)	ND	ug/L	0.2	9/25/2017	10/1/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: X7K0087
Reported: 21-Nov-17 15:26

Client Sample ID: **Station 1 (19th St)**
SVL Sample ID: **X7K0087-01 (Other)**

Sample Report Page 1 of 1

Sampled: 02-Nov-17 16:38
Received: 03-Nov-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	35.4	mg/L	0.100	0.020		X745080	AS	11/14/17 11:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0026		X745080	DT	11/14/17 12:56	
EPA 200.7	Magnesium	5.65	mg/L	0.20	0.05		X745080	AS	11/14/17 11:02	
EPA 200.7	Zinc	0.186	mg/L	0.010	0.002		X745080	AS	11/14/17 11:02	
SM 2340B	Hardness (as CaCO3)	112	mg/L	1.07	0.252		N/A		11/14/17 11:02	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	2.11	mg/L	0.50	0.06		X746150	SM	11/15/17 14:59	
SM 2540 D	Total Susp. Solids	28.0	mg/L	5.0			X745044	JDM	11/07/17 13:45	
SM 4500-P-E	Phosphorus	1.89	mg/L	0.100	0.036	10	X745163	SM	11/08/17 15:19	D2

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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City of Coeur d'Alene	Project Name: Stormwater Monitoring
710 E. Mullan Ave.	Work Order: X7K0087
Coeur d Alene, ID 83814	Reported: 21-Nov-17 15:26

Client Sample ID: **Station 2 (Bellerive)**
SVL Sample ID: **X7K0087-02 (Other)**

Sample Report **Page 1 of 1**

Sampled: 02-Nov-17 17:00
Received: 03-Nov-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	11.6	mg/L	0.100	0.020		X745080	AS	11/14/17 11:05	
EPA 200.7	Lead	0.0152	mg/L	0.0075	0.0026		X745080	DT	11/14/17 12:59	
EPA 200.7	Magnesium	5.54	mg/L	0.20	0.05		X745080	AS	11/14/17 11:05	
EPA 200.7	Zinc	0.340	mg/L	0.010	0.002		X745080	AS	11/14/17 11:05	
SM 2340B	Hardness (as CaCO3)	51.7	mg/L	1.07	0.252		N/A		11/14/17 11:05	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	1.52	mg/L	0.50	0.06		X746150	SM	11/15/17 15:08	
SM 2540 D	Total Susp. Solids	284	mg/L	20.0			X745044	JDM	11/07/17 13:45	DI
SM 4500-P-E	Phosphorus	0.506	mg/L	0.010	0.004		X745163	SM	11/08/17 15:19	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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Client:	COEUR D'ALENE WASTEWATER DEPT	**Batch #:**	171107026
Address:	710 MULLAN- CITY HALL	**Project Name:**	SVL #X7K0087
	COEUR D'ALENE, ID 83814		
Attn:	KIM HARRINGTON		

Analytical Results Report

Sample Number	171107026-002	**Sampling Date**	11/2/2017	**Date/Time Received**	11/7/201710:57 AM
Client Sample ID	STATION 2 (BELLERIVE)	**Sampling Time**	5:00 PM	**Extraction Date**	11/16/2017
Matrix	Water	**Sample Location**	X7K0087-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 171107026-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	70.2	30-130

Authorized Signature

Todd Taruscio, Lab Manager

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Client:	COEUR D`ALENE WASTEWATER DEPT	**Batch #:**	171107026
Address:	710 MULLAN- CITY HALL	**Project Name:**	SVL #X7K0087
	COEUR D`ALENE, ID 83814		
Attn:	KIM HARRINGTON		

Analytical Results Report

Sample Number	171107026-001	**Sampling Date**	11/2/2017	**Date/Time Received**	11/7/2017 10:57 AM
Client Sample ID	STATION 1 (19TH ST)	**Sampling Time**	4:38 PM	**Extraction Date**	11/16/2017
Matrix	Water	**Sample Location**	X7K0087-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.8	11/16/2017	MAH	EPA 8082	

Surrogate Data

Sample Number 171107026-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	48.6	30-130

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Client: COEUR D`ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
COEUR D`ALENE, ID 83814
Attn: KIM HARRINGTON

Batch #: 171107026
Project Name: SVL #X7K0087

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
PCB (total)	10.7	ug/L	10	107.0	30-130	11/16/2017	11/16/2017

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
171107035-003	PCB (total)	ND	10.2	ug/L	10	102.0	30-130	11/16/2017	11/16/2017

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
PCB (total)	10.9	ug/L	10	109.0	6.6	0-50	11/16/2017	11/16/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	11/16/2017	11/16/2017
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	11/16/2017	11/16/2017
PCB (total)	ND	ug/L	0.2	11/16/2017	11/16/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: X7L0520
Reported: 12-Jan-18 14:23

Client Sample ID: **Station 2 (Bellerive)**
SVL Sample ID: **X7L0520-02 (Other)**

Sample Report Page 1 of 1

Sampled: 29-Dec-17 12:47
Received: 29-Dec-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	35.1	mg/L	0.100	0.020		X801058	AS	01/12/18 07:59	
EPA 200.7	Lead	0.0121	mg/L	0.0075	0.0026		X801058	AS	01/12/18 07:59	
EPA 200.7	Magnesium	17.6	mg/L	0.20	0.05		X801058	AS	01/12/18 07:59	
EPA 200.7	Zinc	0.342	mg/L	0.010	0.002		X801058	AS	01/12/18 07:59	
SM 2340B	Hardness (as CaCO3)	160	mg/L	1.07	0.252		N/A		01/12/18 07:59	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	2.50	mg/L	0.50	0.06		X802080	SM	01/09/18 17:58	
SM 2540 D	Total Susp. Solids	156	mg/L	10.0			X801069	JDM	01/03/18 14:40	D1
SM 4500-P-E	Phosphorus	0.350	mg/L	0.020	0.007	2	X802103	SM	01/10/18 12:40	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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City of Coeur d'Alene
710 E. Mullan Ave.
Coeur d Alene, ID 83814

Project Name: Stormwater Monitoring
Work Order: X7L0520
Reported: 12-Jan-18 14:23

Client Sample ID: **Station 1 (19th St)**
SVL Sample ID: **X7L0520-01 (Other)**

Sample Report Page 1 of 1

Sampled: 29-Dec-17 13:11
Received: 29-Dec-17
Sampled By: KH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	23.9	mg/L	0.100	0.020		X801058	AS	01/12/18 07:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0026		X801058	AS	01/12/18 07:56	
EPA 200.7	Magnesium	5.98	mg/L	0.20	0.05		X801058	AS	01/12/18 07:56	
EPA 200.7	Zinc	0.118	mg/L	0.010	0.002		X801058	AS	01/12/18 07:56	
SM 2340B	Hardness (as CaCO3)	84.2	mg/L	1.07	0.252		N/A		01/12/18 07:56	
Classical Chemistry Parameters										
ASTM D-5176	Total Nitrogen	1.92	mg/L	0.50	0.06		X802080	SM	01/09/18 17:27	
SM 2540 D	Total Susp. Solids	49.0	mg/L	5.0			X801069	JDM	01/03/18 14:40	
SM 4500-P-E	Phosphorus	0.245	mg/L	0.010	0.004		X802103	SM	01/10/18 12:40	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: COEUR D`ALENE WASTEWATER DEPT
Address: 710 MULLAN- CITY HALL
COEUR D`ALENE, ID 83814
Attn: KIM HARRINGTON

Batch #: 180103011
Project Name: SVL #X7L0520

Analytical Results Report

Sample Number 180103011-001
Client Sample ID STATION 1 (19TH ST)
Matrix Water
Comments

Sampling Date 12/29/2017
Sampling Time 1:11 PM
Sample Location X7L0520-01

Date/Time Received 1/3/2018 10:39 AM
Extraction Date 1/11/2018

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	

Surrogate Data

Sample Number 180103011-001

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	63.2	30-130

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Client:	COEUR D`ALENE WASTEWATER DEPT	**Batch #:**	180103011
Address:	710 MULLAN- CITY HALL	**Project Name:**	SVL #X7L0520
	COEUR D`ALENE, ID 83814		
Attn:	KIM HARRINGTON		

Analytical Results Report

Sample Number	180103011-002	**Sampling Date**	12/29/2017	**Date/Time Received**	1/3/2018 10:39 AM
Client Sample ID	STATION 2 (BELLERIVE)	**Sampling Time**	12:47 PM	**Extraction Date**	1/11/2018
Matrix	Water	**Sample Location**	X7L0520-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	
PCB (total)	ND	ug/L	0.2	1/16/2018	MAH	EPA 8082	

Surrogate Data

Sample Number 180103011-002

Surrogate Standard	Method	Percent Recovery	Control Limits
DCB	EPA 8082	63.0	30-130

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Client: COEUR D`ALENE WASTEWATER DEPT
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Batch #: 180103011
Project Name: SVL #X7L0520

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
PCB (total)	6.02	ug/L	10	60.2	30-130	1/11/2018	1/16/2018

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
PCB (total)	5.70	ug/L	10	57.0	5.5	0-50	1/11/2018	1/16/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Aroclor 1016 (PCB-1016)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1221 (PCB-1221)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1232 (PCB-1232)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1242 (PCB-1242)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1248 (PCB-1248)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1254 (PCB-1254)	ND	ug/L	0.2	1/11/2018	1/16/2018
Aroclor 1260 (PCB-1260)	ND	ug/L	0.2	1/11/2018	1/16/2018
PCB (total)	ND	ug/L	0.2	1/11/2018	1/16/2018

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference