



IDAHO TRANSPORTATION DEPARTMENT

600 W. Prairie Ave.
Coeur d'Alene, ID 83815-8764

(208) 772-1200
itd.idaho.gov

February 15, 2017

U.S. EPA Region 10
Office of Water
Attn: Mr. Rob Grandinetti – NPDES Compliance Unit
1200 6th Avenue (OW-130)
Seattle, Washington 98101

Re: ITD D1 MS4 2016 Annual Report

Dear Mr. Grandinetti:

The Idaho Transportation Department, District 1 hereby submits the enclosed MS4 Permit No. IDS-028223 Annual Report for 2016 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

Jerry Wilson, P.E.
Operations Manager

Cc: Idaho Department of Environmental Quality

Enclosure: ITD D1 MS4 2016 Annual Report

**MUNICIPAL SEPARATE STORM SEWER SYSTEM
(MS4)
EPA NPDES PERMIT NO.: IDS-028223
2016 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, 2016 TO DECEMBER 31, 2016**

FEBRUARY 15, 2017

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 Storm 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 Annual Report covering the period from January 1, 2016 through December 31, 2016. The purpose of this Annual Report is to document progress toward achieving the minimum control measures associated with the ITD D1 MS4, as identified by ITD D1's Stormwater Management Program (SWMP). The permit and MS4 documentation can be accessed on the ITD website.

MINIMUM CONTROL MEASURES IDENTIFIED BY THE SWMP

A. PUBLIC EDUCATION AND OUTREACH

1. ITD Stormwater Training Opportunities – ITD offers instructor led training opportunities in stormwater management and sediment and erosion control. These courses satisfy the qualification requirements for stormwater inspectors on ITD projects. In 2016, ITD provided the following statewide training opportunities to ITD personnel, consultants, and construction contractors:
 - There were 2 Environmental Inspector Courses (16 hours) and 38 people were certified in 2016.
2. ITD Stormwater Management, Sediment and Erosion Control Guidance - Ongoing updates 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, guidance and contract specifications for ITD projects. The ITD website is the best and most current source for downloading stormwater information from ITD.
3. ITD Stormwater Newsletters - ITD periodically develops and distributes stormwater management newsletters focusing on the latest stormwater, sediment and erosion control news and information applicable in Idaho. There were no newsletters developed in 2016. Past newsletters can be downloaded from the ITD website.

B. PUBLIC INVOLVEMENT/PARTICIPATION

1. ITD Website - ITD continues to maintain a stormwater/MS4 section on its website. The ITD D1 MS4 permit, annual reports, MS4 map, and water quality data are available on the website for viewing. The public can contact ITD with any comments or questions through the website.
2. ITD Maintenance Section Public Involvement - ITD's Operations Manager 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 Manager 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. ITD Transportation Planning Activities - 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 Transportation Improvement Program. KMPO meetings include an open public comment opportunity to allow for public involvement in KMPO activities. Stormwater issues or concerns may be raised by the public during KMPO meetings.
4. Adopt a Highway Program – In 2016, 2.8 tons of litter was removed from the I-90 right of way within the MS4 drainage area.

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. Dry Weather Screening - On September 8, 2016 the I-90 MS4 was visually observed at open ditches and pipe outfalls to satisfy the requirement for dry weather screening in an effort to identify any potential for illicit discharges to the MS4 system. There were no signs of illicit discharges to the ITD MS4 system in 2016.

2. Spill Response - 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.
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 2016 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 may be modified over time with new information. No changes to the map were made in 2016. The MS4 map is posted on the ITD website.
5. Illicit Discharge Training - 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 training 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 2016.

E. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

No development or redevelopment projects were undertaken during 2016 within the portion of the MS4 area operated by ITD.

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 by ITD in April of 2016.

ITD personnel inspected the I-90 stormwater conveyance system in September 2016. 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 has no immediate plans to perform ditch maintenance. In the future, if sediment removal from ditches 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.

G. CONTROL OF THE DISCHARGE OF POLLUTANTS OF CONCERN

Samples were collected per the MS4 permit requirements in 2016 (see updated data log). Sampling events occurred on 3/29/2016, 5/26/2016, 8/10/2016 and 10/11/2016.

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 2016.

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

There were no non-EPA related complaints and/or enforcement actions.

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 and 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

FIGURES AND ATTACHMENTS

- ITD D1 MS4 Water Quality Laboratory Results

MS4 Outlet	Date	Flow (cfs)	Temp (deg C.)	TSS (mg/L)	Total Nitrogen	Nitrate	Nitrite	TKN	TP	T. Lead	T. Zinc	hardness	Cl	Mg	Ca	PCBs
Below Sherman IC	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	0.8	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	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	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	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	16	0.38	ND	ND	0.38	0.0686	ND	ND	36.3	NA	3.34	8.96	ND
	11/22/2011	13.65	3.3	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	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	106	3.4	ND	ND	3.4	0.186	0.011	0.06	40.2	6.19	4.04	9.36	ND
	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
	8/22/2012	0	NA	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	ND	0.528	0.121	ND	0.037	66.5	12.7	6.3	16.1	ND
	5/28/2013	1.69	12	54	0.716	ND	ND	0.716	0.119	ND	0.041	33.4	12.1	3.46	7.66	ND
	6/19/2013	0.57	19	21	0.914	ND	ND	0.914	0.161	ND	0.033	29.3	6.71	2.35	7.85	ND
	8/30/2013	1	18.5	30	2.26	0.95	ND	1.31	0.218	0.0049	0.0398	32.5	5.58	2.39	9.07	ND
	4/22/2014	0.56	8.5	11	0.59	ND	ND	0.509	0.055	ND	0.018	44.8	NA	4.09	11.2	ND
	6/17/2014	0.41	12.7	19	0.817	ND	ND	0.817	0.119	ND	0.035	39.2	NA	3.25	10.3	ND
	10/23/2014	4.61	12.6	39	0.613	ND	ND	0.613	0.215	ND	0.04	13.3	1.61	1.08	3.55	ND
	3/15/2015	1.8	7	NA	0.838	ND	ND	0.838	0.18	0.013	NA	39.3	NA	3.84	9.39	ND
	5/24/2015	1.32	15.5	NA	8.11	ND	ND	8.11	2.35	0.157	NA	139	NA	18.9	24.7	ND
	7/11/2015	0.1	22.7	NA	14.7	1.87	0.13	12.7	1.46	0.099	NA	92.9	NA	11.7	17.8	ND
	10/31/2015	0.279	11.1	NA	1.61	ND	ND	1.61	0.33	0.01	NA	21.9	NA	1.55	6.22	ND
	3/29/2016	13.3	6.5	557	2.49	ND	ND	2.49	0.63	0.15	0.399	54.7	NA	6.57	11.1	ND
	5/26/2016	4.2	11.8	1570	6.19	ND	ND	6.19	1.72	0.167	0.617	116	NA	15.3	21.4	ND
	8/10/2016	8.98	15	830	7.42	1.69	ND	5.73	0.962	0.086	0.315	70	NA	7.92	15	ND
	10/11/2016	5.5	10.8	1810	7.82	0.71	ND	7.11	1.83	0.204	0.719	136	NA	17.1	26.4	ND

Accurate Testing Labs, LLC

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Coeur d'Alene, ID 83815
Phone (208) 762 8378 Fax (208) 762 9082
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Certificate of Analysis

Order No.:

2016030409

Page: 1 of 2

Idaho Transportation Dept
600 W. Prairie Ave
Coeur d'Alene, ID 83815

Project: MS4 Sherman IC

Date Received: 03/29/2016 15:00

Sample: 1
Location: Sherman I.C.
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 03/27/2016 13:20
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	11.1	mg/L	EPA 200.7	0.17	04/05/16	WM
Hardness, Total (as CaCO ₃)	54.7	mg/L	SM 2340	0.2	04/05/16	WM
Magnesium	6.57	mg/L	EPA 200.7	0.03	04/05/16	WM
Phosphorus, Total	0.63	mg/L	EPA 365.1	0.010	04/05/16	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.1	03/30/16	AC
Nitrate-N	ND	mg/L	EPA 300.0	0.5	03/30/16	AC
Lead	0.150	mg/L	SM 3120B	0.005	04/05/16	WM
Zinc	0.399	mg/L	SM 3120B	0.005	04/05/16	WM
Total Kjeldahl Nitrogen (N)	2.49	mg/L	SM 4500NORG B	0.09	04/01/16	AC
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	2.49	mg/L	Calculation		04/01/16	AC
Total Suspended Solids	557	mg/L	SM 2540D	1	03/30/16	MT

Sample: 2
Location: Sherman I.C.
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 03/27/2016 13:20
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	04/10/16	ANA

Comments:

$Q = 13.3 \text{ cfs}$
 $t = 43.8^{\circ}\text{F} \quad 6.5^{\circ}\text{C}$



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 04/14/16

Accurate Testing Labs, LLC

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Certificate of Analysis

Order No.: **2016030409**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	04/10/16	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 04/14/16

Accurate Testing Labs
7950 Meadowlark Way | Coeur d'Alene, ID 83815 | Phone: (208) 762-8378 | Fax: (208) 762-9082
E-mail: mueller@accuratetesting.com | Internet: <http://www.accuratetesting.com>

Results & Invoice to:

Name: WALLACE BROWN

Address: 600 W PRAIRIE AVE

Phone: 208 772 1225 Fax: 208 772 1203

Project Information:

Project Name: MS 4 SHERMAN 1 C.

Project Number:

Purchase Order Number:

Lab #	Sample ID	Date	Time	Matrix
709-1	SHERMAN 1C	5/27	1:20	WATER
-2	SHERMAN 1C	5/27	1:20	WATER

ANALYSIS REQUEST

NO. OF CONTAINERS			
CATTLE	X		
HARDNESS	X		
LEAD	X		
WATER	X		
NEEDLE	X		
NATURAL	X		
PHOSPHORUS	X		
TOTAL	X		
TOTAL MINERAL	X		
PCB		X	
755	X		
214	X		

Remarks/Sample Conditions

Name of Sampler: WALLACE BROWN

Reporting Requirements:

Preliminary: FAX ☐ Verbal ☐ by: ____/____/____Final Report: FAX ☐ Verbal ☐ by: _____/_____/_____Rushes: 48 hrs. ☐ Other: ☐

Relinquished by:

Received by:

Date Time

3-29-16 3:00

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A

☐ UPS ☐ FedEx☐ Bus ☐ Hand

Accurate Testing Labs, LLC

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Certificate of Analysis

Order No.: 2016050437

Page: 1 of 2

Idaho Transportation Dept
600 W. Prairie Ave
Coeur d'Alene, ID 83815

Project: MS4 Sherman IC

Date Received: 05/26/2016 08:30

Sample: 1
Location: Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 05/26/2016 07:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	21.4	mg/L	EPA 200.7	0.17	06/01/16	WM
Hardness, Total (as CaCO ₃)	116	mg/L	SM 2340	0.2	06/01/16	WM
Magnesium	15.3	mg/L	EPA 200.7	0.03	06/01/16	WM
Phosphorus, Total	1.72	mg/L	EPA 365.1	0.010	06/02/16	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.5	05/27/16	WM
Nitrate-N	ND	mg/L	EPA 300.0	0.5	05/27/16	WM
Lead	0.167	mg/L	SM 3120B	0.01	06/01/16	WM
Zinc	0.617	mg/L	SM 3120B	0.01	06/01/16	WM
Total Kjeldahl Nitrogen (N)	6.19	mg/L	SM 4500NORG B	0.09	06/03/16	WM
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	6.19	mg/L	Calculation		06/03/16	WM
Total Suspended Solids	1570	mg/L	SM 2540D	1	05/27/16	MT

Sample: 2
Location: Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 05/26/2016 07:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	06/06/16	ANA

Comments:

Q = 4.2 cfs
t = 53.4°F 11.8°C



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 06/09/16

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Certificate of Analysis

Order No.: **2016050437**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	06/06/16	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 06/09/16

Chain of Custody

Accurate Testing Labs

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E-mail: mueller@accuratetesting.com | Internet: <http://www.accuratetesting.com>

Results & Invoice to:

Name: Wallace Brown
Address: 600 W. Prairie Ave
Coeur d'Alene ID 83815
Phone: 772 1225 Fax: 772 1223

Reporting Requirements:

Preliminary: FAX ☐ Verbal ☐ by: / /
Final Report: FAX ☐ Verbal ☐ by: / /
Rushes: 48 hrs. ☐ Other:

Name of Sampler:
M. HARTZ

Project Information:

Project Name: MS4 Sherman IC
Project Number:
Purchase Order Number:

ANALYSIS REQUEST

NO OF CONTAINERS

TSS
TP
TN
PB
Zn
Hardness
PCB

Lab #	Sample ID	Date	Time	Matrix
437-1	Sherman IC	5/26	7A	Stream Water
-2	Sherman IC	5/26	7A	Water

Remarks/Sample Conditions

Relinquished by:

Wallace Brown

Date Time Received by:

5/26/16 8:30A

Date Time

5-26-16 8:30

Chain of Custody Seals

Yes ☐ No ☐ N/A
UPS ☐ FedEx ☐
Bus ☐ Hand

Accurate Testing Labs, LLC

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Certificate of Analysis

Order No.: 2016080252

Page: 1 of 2

Idaho Transportation Dept
600 W. Prairie Ave
Coeur d'Alene, ID 83815

Project: Storm Water

Date Received: 08/10/2016 09:05

Sample: 1
Location: MS4 Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 08/09/2016 00:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	15.0	mg/L	EPA 200.7	0.17	08/11/16	WM
Hardness, Total (as CaCO ₃)	70.0	mg/L	SM 2340	0.2	08/11/16	WM
Magnesium	7.92	mg/L	EPA 200.7	0.03	08/11/16	WM
Phosphorus, Total	0.962	mg/L	EPA 365.1	0.010	08/11/16	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.5	08/11/16	WM
Nitrate-N	1.69	mg/L	EPA 300.0	0.5	08/11/16	WM
Lead	0.086	mg/L	SM 3120B	0.01	08/12/16	WM
Zinc	0.315	mg/L	SM 3120B	0.01	08/12/16	WM
Total Kjeldahl Nitrogen (N)	5.73	mg/L	SM 4500NORG B	0.09	08/12/16	AC
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	7.42	mg/L	Calculation		08/12/16	AC
Total Suspended Solids	830	mg/L	SM 2540D	1	08/11/16	AC

Sample: 2
Location: MS4 Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 08/09/2016 00:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	08/31/16	ANA

Comments:

$Q = 8.98 \text{ cfs}$

$t = 59^{\circ}\text{C} \quad 15^{\circ}\text{C}$



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/06/16

Accurate Testing Labs, LLC

7950 Meadowlark Way
Coeur d'Alene, ID 83815
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www.accuratetesting.com
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Certificate of Analysis

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Aroclor 1260	ND	ug/L	EPA 8082	0.2	08/31/16	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/06/16

ATTN: Wally Brown

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2016100154

Page: 1 of 2

Idaho Transportation Dept
600 W. Prairie Ave
Coeur d'Alene, ID 83815

Project: MS4 Sherman IC

Date Received: 10/11/2016 08:52

Sample: 1
Location: Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 10/10/2016 00:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	26.4	mg/L	EPA 200.7	0.17	10/13/16	WM
Hardness, Total (as CaCO ₃)	136	mg/L	SM 2340	0.2	10/13/16	WM
Magnesium	17.1	mg/L	EPA 200.7	0.03	10/13/16	WM
Phosphorus, Total	1.83	mg/L	EPA 365.1	0.010	10/13/16	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.5	10/11/16	WM
Nitrate-N	0.71	mg/L	EPA 300.0	0.5	10/11/16	WM
Lead	0.204	mg/L	SM 3120B	0.01	10/14/16	WM
Zinc	0.719	mg/L	SM 3120B	0.01	10/14/16	WM
Total Kjeldahl Nitrogen (N)	7.11	mg/L	SM 4500NORG B	0.09	10/14/16	AC
Total Nitrogen (NO ₂ +NO ₃ +TKN as N)	7.82	mg/L	Calculation		10/14/16	AC
Total Suspended Solids	1810	mg/L	SM 2540D	1	10/11/16	MT

Sample: 2
Location: Sherman IC
Sample Type: Grabs
Matrix: Non-Potable Water
D/T Collected: 10/10/2016 00:00
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	10/20/16	ANA

Comments:

Q = 5.5 cfs
t = 10.8°C



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/24/16

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Certificate of Analysis

Order No.: **2016100154**

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Aroclor 1260	ND	ug/L	EPA 8082	0.8	10/20/16	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 10/24/16

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