



**IDAHO TRANSPORTATION DEPARTMENT**

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

(208) 772-1200  
itd.idaho.gov

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February 15, 2019

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

Re: ITD D1 MS4 2018 Annual Report

Dear Mr. Grandinetti:

The Idaho Transportation Department, District 1 hereby submits the enclosed MS4 Permit No. IDS-028223 Annual Report for 2018 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

A handwritten signature in cursive script that reads 'Jerry Wilson'.

Jerry Wilson, P.E.  
Operations Manager

Cc: Idaho Department of Environmental Quality

Enclosure: ITD D1 MS4 2018 Annual Report

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**MUNICIPAL SEPARATE STORM SEWER SYSTEM  
(MS4)  
EPA NPDES PERMIT NO.: IDS-028223  
2018 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, 2018 TO DECEMBER 31, 2018**

**FEBRUARY 15, 2019**

## 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, 2018 through December 31, 2018. 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. ITD continued its stormwater construction site inspector training in 2018
  - .
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 2018. 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 2018, Adopt a Highway groups did not work within the MS4 portion of the I-90 right of way due to the active status of I-90 reconstruction project.

### ***C. ILLICIT DISCHARGE DETECTION AND ELIMINATION***

1. Dry Weather Screening - Dry weather screening was not conducted in 2018 due to the active status of the I-90 reconstruction project.

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 2018 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 2018. 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***

Reconstruction of the existing I-90 pavement section and interchange ramps between Northwest Boulevard and Sherman Avenue was commenced in 2017 and continued through the 2018 construction season. Stormwater discharges associated with construction activities is currently covered under the NPDES Construction General Permit.

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

As noted above in part D, I-90 between Northwest Boulevard and Sherman Avenue was reconstructed in 2017 and 2018. The function and capacity of stormwater system was maintained by the project.

#### ***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 is typically done in the spring of each year. Portions of the stormwater conveyance system within the MS4 portion of I-90 were replaced in 2018.

ITD personnel inspected the I-90 stormwater conveyance system in August 2018. 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 2018 (see updated data log). Sampling events occurred on 4/30/2018, 6/21/2018, 8/27/2018 and 10/26/2018.

#### ***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 2018.

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

There were no non-EPA related complaints and/or enforcement actions in 2018.

***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. The third construction season of the I-90 reconstruction project between Northwest Boulevard and Sherman Avenue will continue into 2019 although the major of the work on the project is now complete. NPDES CGP inspections will continue until final slope stabilization can be documented..

***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**

**From:** [Matt Carlson](#)  
**To:** [Michael Hartz](#)  
**Subject:** RE: MS4 Reporting/Inspector certifications  
**Date:** Wednesday, February 13, 2019 8:28:50 AM

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Mike,

Environmental Awareness: 11 Courses, 100 ITD employees completed the course in 2018.

Matt Carlson  
Senior Environmental Planner, Stormwater  
Idaho Transportation Department HQ  
3311 W. State Street  
Boise, Idaho 83703  
208.334.8631  
<http://itd.idaho.gov/env/>

-----Original Message-----

From: Michael Hartz <Michael.Hartz@itd.idaho.gov>  
Sent: Tuesday, February 12, 2019 8:39 AM  
To: Matt Carlson <Matt.Carlson@itd.idaho.gov>  
Subject: RE: MS4 Reporting/Inspector certifications

Thanks Matt.

-----Original Message-----

From: Matt Carlson <Matt.Carlson@itd.idaho.gov>  
Sent: Tuesday, February 12, 2019 7:17 AM  
To: Michael Hartz <Michael.Hartz@itd.idaho.gov>  
Subject: RE: MS4 Reporting/Inspector certifications

Mike,

For the 2018 NPDES course, there were:

July 11th & 12th Class – 9 people  
July 17th & 18th Class – 17 people  
July 25th & 26th Class – 18 people

= 44 PEOPLE in Total.

I'm still waiting on the Environmental Awareness Training from Amanda. Hopefully I can get it today.

Thanks,

Matt Carlson  
Senior Environmental Planner, Stormwater Idaho Transportation Department HQ  
3311 W. State Street  
Boise, Idaho 83703  
208.334.8631



<http://itd.idaho.gov/env/>

[cid:image003.png@01D2F575.B0EE6D40]

From: Matt Carlson

Sent: Monday, February 4, 2019 10:56 AM

To: Michael Hartz <Michael.Hartz@itd.idaho.gov>; Wendy Terlizzi <Wendy.Terlizzi@itd.idaho.gov>

Subject: RE: MS4 Reporting/Inspector certifications

Sure Mike, I will look into this and get back to you.

Thanks,

Matt Carlson

Senior Environmental Planner, Stormwater Idaho Transportation Department HQ

3311 W. State Street

Boise, Idaho 83703

208.334.8631

<http://itd.idaho.gov/env/>

[cid:image003.png@01D2F575.B0EE6D40]

From: Michael Hartz <Michael.Hartz@itd.idaho.gov<<mailto:Michael.Hartz@itd.idaho.gov>>>

Sent: Monday, February 4, 2019 10:37 AM

To: Wendy Terlizzi <Wendy.Terlizzi@itd.idaho.gov<<mailto:Wendy.Terlizzi@itd.idaho.gov>>>; Matt Carlson

<Matt.Carlson@itd.idaho.gov<<mailto:Matt.Carlson@itd.idaho.gov>>>

Subject: MS4 Reporting/Inspector certifications

Wendy/Matt,

It is the time of the year when I need to update the D1 MS4 annual report with the estimate of the number of ITD staff who completed stormwater training. Can you please access the training record and help me fill in the blank in the following statement:

There were XX people certified in 2018 to perform ITD stormwater inspections.

Thanks,

Mike Hartz

- ITD D1 MS4 Water Quality Laboratory Results

# ITD 2018 Water Quality Monitoring Data from MS4 Sampling Station at Sherman Avenue, CdA, ID

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
	4/7/2017	11.5	8.5	62	0.513	ND	ND	0.531	0.125	ND	0.034	28.8	NA	2.77	6.96	ND
	9/18/2017	2.45	14.96	136	3.35	0.91	0.13	2.31	0.542	16.2	92.1	30.7	NA	2.85	7.6	ND
	10/20/2017	1.02	11.55	18	0.415	ND	ND	0.415	0.102	ND	0.022	21.2	NA	1.62	5.82	ND
	4/30/2018	2.81	9.5	13	0.563	0.24	ND	0.323	0.051	0.0011	ND	35.9	NA	3.43	8.71	ND
	6/21/2018	1.7	13.1	274	2.33	0.43	ND	1.9	0.55	17.6	115	51	NA	5.43	11.5	ND
	8/27/2018	1.8	18.4	48	2.02	0.65	ND	1.37	0.31	4.64	46	25.1	NA	1.98	6.79	ND
	10/26/2018	2.4	10	1100	3.7	0.62	ND	3.15	1.04	0.087	0.267	60.7	NA	8.34	10.5	ND
Average		4.88		32.125	1.3675	1.3	#DIV/0!	0.55	0.107325	0.012	0.0356	59.62857	16.55	7.42625	14.55	#DIV/0!
Median		4.555		15.5	1.175	1.3	#NUM!	0.485	0.0693	0.012	0.025	40.6	18	6.21	9.47	#NUM!
Maximum		8.75		96	2.51	1.8	0	1.01	0.23	0.012	0.071	112	21	18.3	26.4	0
Minimum		1.66		3	0.38	0.8	0	0.27	0.061	0.012	0.017	30	9.2	2.68	7.51	0

# Accurate Testing Labs, LLC

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

# Certificate of Analysis

Order No.:

**2018050042**

Page: 1 of 2

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

Project: MS4 Sherman IC

Date Received: 05/01/2018 15:15

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 04/30/2018 20:00  
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	8.71	mg/L	EPA 200.7	0.03	05/03/18	WM
Hardness, Total (as CaCO <sub>3</sub> )	35.9	mg/L	SM 2340	0.2	05/03/18	WM
Magnesium	3.43	mg/L	EPA 200.7	0.02	05/03/18	WM
Phosphorus, Total	0.051	mg/L	EPA 365.1	0.016	05/03/18	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.1	05/02/18	WM
Nitrate-N	0.24	mg/L	EPA 300.0	0.1	05/02/18	WM
Total Kjeldahl Nitrogen (N)	0.323	mg/L	SM 4500NORG B	0.09	05/07/18	GL
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN as N)	0.563	mg/L	Calculation		05/07/18	WM
Total Suspended Solids	13	mg/L	SM 2540D	1	05/02/18	GL
Lead	0.0011	mg/L	EPA 200.9	0.001	05/08/18	WM
Zinc	ND	mg/L	EPA 200.7	0.013	05/07/18	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 04/30/2018 20:00  
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	05/14/18	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	05/14/18	ANA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 05/18/18

# Accurate Testing Labs, LLC

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

# Certificate of Analysis

Order No.: **2018050042**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	05/14/18	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: 05/18/18

## Accurate Testing Labs

E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

<b>Results &amp; Invoice to:</b> <u>Mike HARTZ</u> Name: <u>Wallace Brown</u> Address: <u>600 W. Prairie Ave</u> <u>Coeur d'Alene ID 83815</u> Phone: <u>772-1225</u> Fax: <u>772 1223</u> <u>772-8218</u>					<b>Reporting Requirements:</b> Preliminary: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> by: <u>1/1</u> Final Report: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> by: <u>1/1</u> Rushes: 48 hrs. <input type="checkbox"/> Other: <input type="checkbox"/>					<b>Name of Sampler:</b> <u>M. HARTZ</u>									
<b>Project Information:</b> Project Name: <u>MS4 Sherman IC</u> Project Number: _____ Purchase Order Number: _____					<b>ANALYSIS REQUEST</b>										<b>Remarks/Sample Conditions</b>				
Lab #	Sample ID	Date	Time	Matrix	NO. OF CONTAINERS	TSS	TP	TN	Pb	Zn	Hardness	PCB							
042-1	Sherman IC	4/30	8:30 AM	Water		X	X	X	X	X	X								
- 2	Sherman IC	4/30	6:20 AM	Water								X							
<b>Relinquished by:</b> <u>Mike Hartz</u>			<b>Date Time</b> <u>5/1/18 3:15</u>		<b>Received by:</b> <u>[Signature]</u>			<b>Date Time</b> <u>5-1-18 3:15</u>			<b>Chain of Custody Seals</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Hand								

# Accurate Testing Labs, LLC

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

# Certificate of Analysis

Order No.:

**2018060453**

Page: 1 of 2

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

Project: MS4 Stormwater

Date Received: 06/22/2018 12:00

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 06/21/2018 20:00  
Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	11.5	mg/L	EPA 200.7	0.03	06/28/18	WM
Hardness, Total (as CaCO <sub>3</sub> )	51.0	mg/L	SM 2340	0.2	06/28/18	WM
Magnesium	5.43	mg/L	EPA 200.7	0.02	06/28/18	WM
Phosphorus, Total	0.550	mg/L	EPA 365.1	0.016	06/28/18	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.1	06/22/18	WM
Nitrate-N	0.43	mg/L	EPA 300.0	0.1	06/22/18	WM
Total Kjeldahl Nitrogen (N)	1.90	mg/L	SM 4500NORG B	0.09	06/29/18	GL
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN as N)	2.33	mg/L	Calculation		06/29/18	WM
Total Suspended Solids	274	mg/L	SM 2540D	1	06/27/18	GL
Lead	17.6	ug/L	SM 3120B	0.5	07/06/18	WM
Zinc	115	ug/L	SM 3120B	1.0	07/06/18	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 06/21/2018 20:00  
Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	07/11/18	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	07/11/18	ANA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/16/18

# Accurate Testing Labs, LLC

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# Certificate of Analysis

Order No.: **2018060453**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	07/11/18	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: 07/16/18



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E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

<b>Results &amp; Invoice to:</b> Name: <u>Mike HARTZ ITD</u> Address: <u>622 W. Prairie Ave</u> <u>CoA ITD</u> Phone: <u>772 8018</u> Fax: _____					<b>Reporting Requirements:</b> Preliminary: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> by: <u>  /  /  </u> Final Report: FAX <input type="checkbox"/> Verbal <input type="checkbox"/> by: <u>  /  /  </u> Rushes: 48 hrs. <input type="checkbox"/> Other: <input type="checkbox"/>					<b>Name of Sampler:</b> _____   <b>Remarks/Sample Conditions</b>																								
<b>Project Information:</b> Project Name: <u>CoA ITD MS4 Stormwater</u> Project Number: _____ Purchase Order Number: _____					<b>ANALYSIS REQUEST</b>																													
					<table><tr><td rowspan="2">NO. OF CONTAINERS</td><td rowspan="2">PCB</td><td rowspan="2">Pb</td><td rowspan="2">Zn</td><td rowspan="2">TSS</td><td rowspan="2">Hardness</td><td rowspan="2">TP</td><td rowspan="2">TN</td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td></tr><tr></tr></table>										NO. OF CONTAINERS	PCB	Pb	Zn	TSS	Hardness	TP	TN												
NO. OF CONTAINERS	PCB	Pb	Zn	TSS	Hardness	TP	TN																											
Lab #	Sample ID	Date	Time	Matrix																														
453-1	Shorman IC	6/21/18	8:00 AM	W			X	X	X	X	X	X																						
-2	Shorman IC	6/21/18	8:00 PM	W		X																												
<b>Relinquished by:</b> <u>Mike Hartz</u>				<b>Date Time</b> <u>6/22/18 12:00 PM</u>	<b>Received by:</b> <u>[Signature]</u>				<b>Date Time</b> <u>6-22-18 12:00</u>		<b>Chain of Custody Seals</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Bus <input checked="" type="checkbox"/> Hand																							

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info@accuratetesting.com

# Certificate of Analysis

Order No.:

**2018080495**

Page: 1 of 2

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

Project: MS4 Sherman IC

Date Received: 08/27/2018 08:28

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 08/27/2018 08:00  
Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	6.79	mg/L	EPA 200.7	0.03	08/30/18	WM
Hardness, Total (as CaCO <sub>3</sub> )	25.1	mg/L	SM 2340	0.2	08/30/18	WM
Magnesium	1.98	mg/L	EPA 200.7	0.02	08/30/18	WM
Phosphorus, Total	0.310	mg/L	EPA 365.1	0.016	08/30/18	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.1	08/29/18	WM
Nitrate-N	0.65	mg/L	EPA 300.0	0.1	08/29/18	WM
Total Kjeldahl Nitrogen (N)	1.37	mg/L	SM 4500NORG B	0.09	08/31/18	GL
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN as N)	2.02	mg/L	Calculation		08/31/18	WM
Total Suspended Solids	48	mg/L	SM 2540D	1	08/28/18	GL
Lead	4.64	ug/L	SM 3120B	0.5	08/31/18	WM
Zinc	46.0	ug/L	SM 3120B	1.0	08/31/18	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 08/27/2018 08:00  
Collected by: Mike Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	09/10/18	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	09/10/18	ANA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 09/18/18

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# Certificate of Analysis

Order No.: **2018080495**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	09/10/18	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: 09/18/18

# Chain of Custody

**Accurate Testing Labs**

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E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

**Results & Invoice to:**

Name: Mike HARTZ  
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**

Remarks/Sample  
Conditions

Lab #	Sample ID	Date	Time	Matrix
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NO. OF CONTAINERS

TSS

TP

TN

Pb

Zn

Hardness

PLB

495-1	Sherman IC	8-27-18	08:00	Water
1-2	Sherman IC	1	1	Water

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

**Relinquished by:**

Mike Hartz

Date Time

8/27 8:00 AM

**Received by:**

[Signature]

Date Time

8-27-18 8:28

**Chain of Custody Seals**

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

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# Certificate of Analysis

Order No.:

**2018100443**

Page: 1 of 2

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

Project: MS4 Sherman IC

Date Received: 10/26/2018 09:05

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 10/26/2018 08:30  
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	10.5	mg/L	EPA 200.7	0.03	11/01/18	WM
Hardness, Total (as CaCO <sub>3</sub> )	60.7	mg/L	SM 2340	0.2	11/01/18	WM
Magnesium	8.34	mg/L	EPA 200.7	0.02	11/01/18	WM
Phosphorus, Total	1.04	mg/L	EPA 365.1	0.016	11/01/18	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.1	10/26/18	WM
Nitrate-N	0.62	mg/L	EPA 300.0	0.1	10/26/18	WM
Total Kjeldahl Nitrogen (N)	3.15	mg/L	SM 4500NORG B	0.09	11/02/18	GL
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN as N)	3.77	mg/L	Calculation		11/02/18	WM
Total Suspended Solids	1100	mg/L	SM 2540D	1	11/02/18	GL
Lead	0.087	mg/L	SM 3120B	0.0005	11/09/18	WM
Zinc	0.267	mg/L	SM 3120B	0.01	11/02/18	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 10/26/2018 08:30  
Collected by: M. Hartz

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	11/19/18	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	11/19/18	ANA

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 11/26/18

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# Certificate of Analysis

Order No.: **2018100443**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	11/19/18	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: 11/26/18

## Chain of Custody

## Accurate Testing Labs

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