CITY OF POST FALLS

STORM WATER MANAGEMENT PROGRAM

2014 ANNUAL REPORT

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Contents

City of Post Falls

2014 Annual Report on the Storm Water Program

MS4 Permit IDS-028231

INTRODUCTION

Pursuant to the referenced permit, Section IV. C. Reporting Requirements (see Appendix - A), this report summarizes the City's storm water program activities from January 1, 2014 to December 31, 2014. The requirements of Section IV.C. are located in Appendix A.

This report is organized into appendices addressing various reporting requirements.

The following table summarizes the status of each of the IV.C. reporting requirements listed above and the location of documented data, analysis and discussion that are included in this report.

Item #	Section IV.C. Element	Current Status	Document Location
1	1.a.	Monitoring for this and the prior permit cycles is complete	Appendix - B
2	1.b.	Monitoring for this and the prior permit cycles is complete	Appendix - B
3	1.c.	Monitoring for this and the prior permit cycles is complete	Appendix - B
4	1.d.	Monitoring for this and the prior permit cycles is complete	Appendix - B
5	1.e.	Monitoring for this and the prior permit cycles is complete	Appendix - B
6	2.a.	The assessment of program control measures is included in this report	Appendix - C
7	2.b.	Results of the last 12 months' monitoring are included in this report	Appendix - B
8	2.c.	A summary of inspections and enforcement actions is included in this report	Appendix - D
9	2.d.	A summary of enforcement actions received is included in this report	Appendix - E
10	2.e.	Copies of permit-related products and materials produced during 2013 are included in this report	Appendix - H

11	2.f.	An implementation schedule and a summary of planned activities during the next reporting cycle is included in this report	Appendix - F
12	2.g.	A schedule of implementation and description of additional BMPs that may be needed to comply with water quality standards are included in this report	Appendix - G
13	2.h.	The City of Post Falls did not rely on another entity for any of its permit obligations during this permit cycle.	None Required

APPENDIX A: REPORTING REQUIREMENTS LIST

C. Reporting Requirements

1. **Storm Water Discharge Monitoring Report**. Within two years from the effective date of this permit, and annually thereafter, all available storm water discharge monitoring data must be submitted as part of the Annual Report. At a minimum, this Storm Water Discharge Monitoring Report must include:
   a) Dates of sample collection and analyses;
   b) Results of analytical samples collected;
   c) Location of sample collection;
   d) Estimates of the daily and/or monthly average pollutant loads for each pollutant at each sample location; and
   e) A cumulative annual estimate of pollutant loading for each parameter at each sample location, and an overall annual estimate of the contribution of pollutants from all storm water emanating from the Post Falls MS4.
2. **Annual Report.** No later than February 15 of each year beginning in year 2010, the permittee shall submit an Annual Report to EPA and IDEQ. The reporting period for the first annual report will be from the effective date of this permit through December 31, 2009. The reporting period for all subsequent annual reports shall be the previous calendar year. Copies of all Annual Reports must be made available to the public, at a minimum, through a permittee-maintained website. The following information must be contained in each Annual Report:
   a) The report must assess compliance with this permit and progress towards achieving the identified actions and activities for each minimum control measure in Parts II.B and II.C. Status of each program area must be addressed, even if activity has previously been completed or has not yet been implemented;
   b) Results of any information collected and analyzed during the previous 12 month period, including stormwater discharge analytical results of samples collected, estimates of cumulative daily and monthly average pollutant loads for each pollutant at each sample location, water quality monitoring as noted in this part and any other information used to assess the success of the program at improving water quality to the maximum extent practicable;
   c) A summary of the number and nature of inspections, formal enforcement actions, and/or other similar activities performed;
   d) A summary list of any water quality compliance-related enforcement actions received from regulatory agencies other than EPA. Such actions include, but are not limited to, formal or informal warning letters, notices of violation, field citations, or similar actions. This summary should include dates, project synopsis, and actions taken to address the compliance issue(s);

e) Copies of education materials, ordinances (or other regulatory mechanisms), inventories, guidance materials, or other products produced as a result of actions or activities required by this permit;

f) A general summary of the activities the permittee plans to undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure;

g) A description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable water quality standards;

h) Notice if the permittee is relying on another entity to satisfy any of the permit obligations, if applicable.

D. Addresses. Reports and other documents required by this permit must be signed in accordance with Part VI.E and submitted to each of the following addresses:

EPA: United States Environmental Protection Agency
Attention: Storm Water Program
NPDES Compliance Unit
1200 6th Avenue, Suite 900 (OCE-133)
Seattle, WA 98101

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

APPENDIX B: MONITORING RESULTS FOR CURRENT PERMIT CYCLE

2010

Stormwater/Events Data Files/Water Quality Data

	PQL	Method
TSS, mg/L	0.17	SM2340
TP, mg/L	0.05	EPA365.3
Lead, mg/L	0.002	SM3113
TN, mg/L	0.05	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	4th Avenue Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS, mg/L	63	192	372.00	32	84
TP, mg/L	0.179	0.070	0.573	0.578	0.274
Lead, mg/L	0.006	0.018	0.02	ND	0.011
TN, mg/L	1.01	2.27	3.02	5.19	2.54
Zinc, mg/L	0.061	0.21	0.39	0.193	0.191
Hardness, mg/L	18.2	34.7	97.80	67.8	51.3
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	63,538	7,820	20,528	4,888	4,888
Discharge volume (gallons)	475,261	58,494	153,546	36,559	36,559

2010

Stormwater/Events Data Files/Water Quality Data

	PQL	Method
TSS, mg/L	0.17	SM2340
TP, mg/L	0.05	EPA365.3
Lead, mg/L	0.002	SM3113
TN, mg/L	0.05	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	Centennial Trail Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS, mg/L	80	545	328	960	76
TP, mg/L	0.202	0.930	0.448	1.11	0.2
Lead, mg/L	0.01	0.03	0.019	0.079	0.009
TN, mg/L	1.11	4.3	2.51	7.68	2.83
Zinc, mg/L	0.176	0.79	0.289	3.05	0.284
Hardness, mg/L	25.9	85.7	49.6	290	38.9
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	19,202	2,363	6,204	1,477	1,477
Discharge volume (gallons)	143,631	17,678	46,404	11,049	11,049

2010

Stormwater/Events Data Files/Water Quality Data

Event Pollutant Discharge (lbs)					
	4th Avenue Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS	249.86	93.72	476.66	9.76	25.63
TP	0.71	0.03	0.73	0.18	0.08
Lead	0.024	0.009	0.028	ND	0.003
TN	4.01	1.11	3.87	1.58	0.77
Zinc	0.24	0.10	0.50	0.06	0.06
Hardness	72.18	16.94	125.32	20.68	15.65
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	475,261	58,494	153,546	36,559	36,559
Event Precip (inches)	0.65	0.08	0.21	0.05	0.04
Inches per year =	30.26	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

2010

Stormwater/Events Data Files/Water Quality Data

Event Pollutant Discharge (lbs)					
	Centennial Trail Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS	95.89	80.40	127.01	88.51	7.01
TP	0.24	0.14	0.17	0.10	0.02
Lead	0.012	0.004	0.007	0.007	ND
TN	1.33	0.63	0.97	0.71	0.26
Zinc	0.21	0.12	0.11	0.28	0.03
Hardness	31.04	12.64	19.21	26.74	3.59
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	143,631	17,678	46,404	11,049	11,049
Event Precip (inches)	0.65	0.08	0.21	0.05	0.05
Inches per year =	30.26	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

Estimate of Pollutant Load/Inch Precip (lbs/inch)					
	4th Avenue Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS	384.40	1171.51	2269.80	195.25	640.67
TP	1.09	0.43	3.50	3.53	2.09
Lead	0.04	0.11	0.13	ND	0.08
TN	6.16	13.85	18.43	31.67	19.37
Zinc	0.37	1.28	2.39	1.18	1.46
Hardness	111.05	211.73	596.74	413.69	391.27
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	475,261	58,494	153,546	36,559	36,559

*Estimate only, subject to errors and assumptions.

Estimate of Pollutant Load/Inch Precip (lbs/inch)					
	Centennial Trail Outfall				
Sample Date	8/12/2009	3/17/2010	5/19/2010	8/11/2010	9/16/2010
TSS	147.52	1004.98	604.83	1770.24	140.14
TP	0.37	1.71	0.83	2.05	0.37
Lead	0.02	0.06	0.04	0.15	ND
TN	2.05	7.93	4.63	14.16	5.22
Zinc	0.32	1.46	0.53	5.62	0.52
Hardness	47.76	158.03	91.46	534.76	71.73
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	143,631	17,678	46,404	11,049	11,049

*Estimate only, subject to errors and assumptions.

2010 Average Annual Load, lbs/day*

	4th	Centennial	Total
TSS	77.29	60.81	138
TP	0.18	0.09	0.26
Lead	ND	ND	ND
TN	1.48	0.56	2.05
Zinc	0.11	0.14	0.25
Hardness	28.59	14.98	43.58
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2010 Average Annual Load, lbs/year*

	4th	Centennial	Total
TSS	28,212	22,197	50,409
TP	64.35	32.25	96.60
Lead	ND	ND	ND
TN	541.53	205.68	747.21
Zinc	40.39	51.21	91.60
Hardness	10,436	5,469	15,906
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2011

Stormwater/Events Data Files/Water Quality Data

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	4th Avenue Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS, mg/L	135	14	142	173	60
TP, mg/L	0.159	0.052	1.11	0.29	0.354
Lead, mg/L	0.011	ND	0.011	0.014	ND
TN, mg/L	0.75	0.58	4.88	1.19	3.5
Zinc, mg/L	0.13	0.033	0.23	0.21	0.15
Hardness, mg/L	36.5	20.1	72.40	1.36	41.1
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	7,820	34,213	74,290	41,055	67,448
Discharge volume (gallons)	58,494	255,910	555,690	307,092	504,508

2011

Stormwater/Events Data Files/Water Quality Data

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	Centennial Trail Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS, mg/L	260	18	164.00	260	54
TP, mg/L	0.261	0.062	1.02	0.345	0.223
Lead, mg/L	0.018	ND	0.013	0.02	ND
TN, mg/L	1.05	0.76	3.40	1.64	2.8
Zinc, mg/L	0.29	0.11	0.37	0.37	0.33
Hardness, mg/L	55.2	24.6	90.50	2.55	45.2
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	2,363	10,340	22,452	12,407	20,384
Discharge volume (gallons)	17,678	77,340	167,938	92,808	152,470

2011

Stormwater/Events Data Files/Water Quality Data

Event Pollutant Discharge (lbs)					
	4th Avenue Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS	65.90	29.90	658.49	443.34	252.61
TP	0.08	0.11	5.15	0.74	1.49
Lead	0.005	ND	0.051	0.036	ND
TN	0.37	1.24	22.63	3.05	14.74
Zinc	0.06	0.07	1.07	0.54	0.63
Hardness	17.82	42.92	335.74	3.49	173.04
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	58,494	255,910	555,690	307,092	504,508
Event Precip (inches)	0.08	0.35	0.76	0.42	0.69
Inches per year =	26.47	Per USBR AgriMet Station RTHI for calendar year			

Estimated Load/Inch Precip (lbs/inch)					
	4th Avenue Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS	823.72	85.42	866.43	1055.58	366.10
TP	0.97	0.32	6.77	1.77	2.16
Lead	0.07	ND	0.07	0.09	ND
TN	4.58	3.54	29.78	7.26	21.36
Zinc	0.79	0.20	1.40	1.28	0.92
Hardness	222.71	122.64	441.76	8.30	250.78
PCBs	ND	ND	ND	ND	ND
Disch Vol (gals.)	58,494	255,910	555,690	307,092	504,508

2011

Stormwater/Events Data Files/Water Quality Data

Event Pollutant Discharge (lbs)					
	Centennial Trail Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS	38.36	11.62	229.84	201.36	68.71
TP	0.04	0.04	1.43	0.27	0.28
Lead	0.003	ND	0.018	0.015	ND
TN	0.15	0.49	4.76	1.27	3.56
Zinc	0.04	0.07	0.52	0.29	0.42
Hardness	8.14	15.88	126.83	1.97	57.51
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	17,678	77,340	167,938	92,808	152,470
Event Precip (inches)	0.08	0.35	0.76	0.42	0.69
Inches per year =	26.47	Per USBR AgriMet Station RTHI for calendar year			

Estimated Load/Inch Precip (lbs/inch)					
	Centennial Trail Outfall				
Sample Date	3/10/11	5/7/11	5/15/11	7/13/11	9/27/11
TSS	479.44	33.19	302.42	479.44	99.58
TP	0.48	0.11	1.88	0.64	0.41
Lead	0.03	ND	0.02	0.04	ND
TN	1.94	1.40	6.27	3.02	5.16
Zinc	0.53	0.20	0.68	0.68	0.61
Hardness	101.79	45.36	166.88	4.70	83.35
PCBs	ND	ND	ND	ND	ND
Disch Vol (gals.)	17,678	77,340	167,938	92,808	152,470

2011 Average Annual Load, lbs/day*			
	4th	**Centennial**	**Total**
TSS	46	19	65
TP	0.17	0.05	0.22
Lead	0.00319	0.00136	0.00
TN	0.96	0.18	1.15
Zinc	0.07	0.03	0.10
Hardness	15.17	4.62	19.80
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2011 Average Annual Load, lbs/year*			
	4th	**Centennial**	**Total**
TSS	16,926	6,853	23,779
TP	63.5	16.5	80.0
Lead	1.16	0.50	1.66
TN	352.09	66.87	418.96
Zinc	24.3	11.1	35.5
Hardness	5,538	1,687	7,226
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2012

Stormwater/Events Data Files/Water Quality Data

4th Avenue Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	4th Avenue Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS, mg/L	208	80	30	74	120
TP, mg/L	0.27	0.14	0.09	0.26	0.21
Lead, mg/L	0.016	ND	ND	ND	ND
TN, mg/L	1.25	2.90	2.80	1.19	0.98
Zinc, mg/L	0.23	0.13	0.05	0.08	0.34
Hardness, mg/L	65.60	36.60	19.80	15.70	18.80
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	31,280	33,235	16,618	90,908	49,853
Discharge Volume (gallons)	233,975	248,598	124,299	679,989	372,897
Event Precip (inches)	0.32	0.34	0.17	0.93	0.51
Inches per year =	33.2	Per USBR AgriMet Station RTHI for calendar year.			

2012

Stormwater/Events Data Files/Water Quality Data

Centennial Trail Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	Centennial Trail Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS, mg/L	304	75	134	378	120
TP, mg/L	0.33	0.13	0.16	0.65	0.21
Lead, mg/L	0.020	ND	ND	0.021	ND
TN, mg/L	1.66	2.80	3.80	1.86	0.98
Zinc, mg/L	0.56	0.15	0.25	1.23	0.34
Hardness, mg/L	135.00	26.00	20.20	34.20	18.80
PCBs, ug/L	ND	ND	ND	ND	ND
Discharge Volume (cubic feet)	9,453	10,044	5,022	27,474	15,066
Discharge Volume (gallons)	70,711	75,130	37,565	205,502	112,695
Event Precip (inches)	0.32	0.34	0.17	0.93	0.51
Inches per year =	33.2	Per USBR AgriMet Station RTHI for calendar year.			

2012

Event Pollutant Discharge (lbs)					
	4th Avenue Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS	406.12	165.96	31.12	419.91	373.42
TP	0.52	0.28	0.09	1.48	0.66
Lead	0.03	ND	ND	ND	ND
TN	2.44	6.02	2.90	6.75	3.06
Zinc	0.45	0.27	0.05	0.44	1.06
Hardness	128.09	75.93	20.54	89.09	58.50
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	233,975	248,598	124,299	679,989	372,897
Event Precip (inches)	0.32	0.34	0.17	0.93	0.51
Inches per year =	33.2	Per USBR AgriMet Station RTHI for calendar year			

Estimated Load/Inch Precip (lbs/inch)					
	4th Avenue Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS	1269	488	183	452	732
TP	1.62	0.84	0.54	1.59	1.30
Lead	0.10	ND	ND	ND	ND
TN	7.63	17.69	17.08	7.26	6.00
Zinc	1.40	0.79	0.31	0.47	2.07
Hardness	400.3	223.3	120.8	95.8	114.7
PCBs	ND	ND	ND	ND	ND
Disch Vol (gals.)	233,975	248,598	124,299	679,989	372,897

2012

Event Pollutant Discharge (lbs)					
	Centennial Trail Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS	179.38	47.02	42.01	648.24	112.85
TP	0.19	0.08	0.05	1.12	0.20
Lead	0.01	ND	ND	0.00	ND
TN	0.98	1.76	1.19	3.19	0.93
Zinc	0.33	0.09	0.08	2.11	0.32
Hardness	79.66	16.30	6.33	58.65	17.68
PCBs	ND	ND	ND	ND	ND
Discharge Volume (gallons)	70,711	75,130	37,565	205,502	112,695
Event Precip (inches)	0.32	0.34	0.17	0.93	0.51
Inches per year =	33.2	Per USBR AgriMet Station RTHI for calendar year			

Estimated Load/Inch Precip (lbs/inch)					
	Centennial Trail Outfall				
Sample Date	3/12/12	4/4/12	5/2/12	7/15/12	10/15/12
TSS	561	138	247	697	221
TP	0.61	0.23	0.30	1.20	0.39
Lead	0.04	ND	ND	0.01	ND
TN	3.06	5.16	7.01	3.43	1.81
Zinc	1.03	0.28	0.46	2.27	0.63
Hardness	248.94	47.94	37.25	63.06	34.67
PCBs	ND	ND	ND	ND	ND
Disch Vol (gals.)	70,711	75,130	37,565	205,502	112,695

2012 Average Annual Load, lbs/day*			
	4th	**Centennial**	**Total**
TSS	56.83	29.89	86.72
TP	0.11	0.04	0.15
Lead	0.00	0.00	0.0025
TN	1.01	0.34	1.35
Zinc	0.09	0.07	0.17
Hardness	17.37	7.23	24.60
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2012 Average Annual Load, lbs/year*			
	4th	**Centennial**	**Total**
TSS	20,744	10,910	31,653
TP	39.1	15.6	54.7
Lead	0.65	0.28	0.93
TN	369.7	123.9	493.6
Zinc	33.5	26.8	60.3
Hardness	6341	2637	8978
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2013

Stormwater/Events Data Files/Water Quality Data

4th Avenue Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	4th Avenue Outfall				
Sample Date	3/12/13	5/13/2013	7/8/2013	9/4/2013	
TSS, mg/L	208	407	550	100	
TP, mg/L	0.27	0.79	0.89	0.18	
Lead, mg/L	0.016	0.029	0.049	0.009	
TN, mg/L	1.25	5.23	3.61	1.95	
Zinc, mg/L	0.23	0.55	0.05	0.12	
Hardness, mg/L	66	82	54	24	
PCBs, ug/L	ND	ND	ND	ND	
Discharge Volume (cubic feet)	31,280	33,235	16,618	90,908	
Discharge Volume (gallons)	233,975	248,598	124,299	679,989	
Event Precip (inches)	0.08	0.60	0.28	0.15	
Inches per year =	22.51	Per USBR AgriMet Station RTHI for calendar year.			

2013

Stormwater/Events Data Files/Water Quality Data

Centennial Trail Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.025	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.08	SM 4500N B/4110
Zinc, mg/L	0.013	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	Centennial Trail Outfall				
Sample Date	3/12/13	5/13/2013	7/8/2013	9/4/2013	
TSS, mg/L	304	550	840	353	
TP, mg/L	0.33	1.18	1.58	0.52	
Lead, mg/L	0.020	0.037	0.070	0.023	
TN, mg/L	1.66	9.81	5.92	2.55	
Zinc, mg/L	0.56	1.04	2.20	0.49	
Hardness, mg/L	135	190	122	71	
PCBs, ug/L	ND	ND	ND	ND	
Discharge Volume (cubic feet)	9,453	10,044	5,022	27,474	
Discharge Volume (gallons)	70,711	75,130	37,565	205,502	
Event Precip (inches)	0.08	0.60	0.28	0.15	
Inches per year =	22.51	Per USBR AgriMet Station RTHI for calendar year.			

2013

Event Pollutant Discharge (lbs)*					
	4th Avenue Outfall				
Sample Date	3/12/13	5/13/13	7/8/13	9/4/13	
TSS	406.12	844.34	570.50	567.45	
TP	0.52	1.63	0.92	1.01	
Lead	0.03	0.01	0.01	0.01	
TN	2.44	10.85	3.74	11.07	
Zinc	0.45	1.15	0.05	0.68	
Hardness	128.09	169.28	55.81	135.62	
PCBs	ND	ND	ND	ND	
Discharge Volume (gallons)	233,975	248,598	124,299	679,989	
Event Precip (inches)	0.08	0.60	0.28	0.15	
Inches per year =	22.51	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

Estimated Load/Inch Precip (lbs/inch)*					
	4th Avenue Outfall				
Sample Date	3/12/13	5/13/13	7/8/13	9/4/13	
TSS	5,077	1,407	2,038	3,783	
TP	6.49	2.72	3.28	6.73	
Lead	0.39	0.01	0.02	0.05	
TN	30.51	18.08	13.37	73.77	
Zinc	5.61	1.92	0.18	4.54	
Hardness	1601.1	282.1	199.3	904.1	
PCBs	ND	ND	ND	ND	
Disch Vol (gals.)	233,975	248,598	124,299	679,989	0

*Estimate only, subject to errors and assumptions.

2013

Event Pollutant Discharge (lbs)*					
	Centennial Trail Outfall				
Sample Date	3/12/13	5/13/13	7/8/13	9/4/13	
TSS	179.38	344.83	263.32	605.37	
TP	0.19	0.74	0.50	0.88	
Lead	0.01	0.00	0.00	0.01	
TN	0.98	6.15	1.86	4.37	
Zinc	0.33	0.65	0.69	0.84	
Hardness	79.66	119.12	38.24	121.24	
PCBs	ND	ND	ND	ND	
Discharge Volume (gallons)	70,711	75,130	37,565	205,502	
Event Precip (inches)	0.08	0.60	0.28	0.15	
Inches per year =	22.51	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

Estimated Load/Inch Precip (lbs/inch)*					
	Centennial Trail Outfall				
Sample Date	3/12/13	5/13/13	7/8/13	9/4/13	
TSS	2,242	575	940	4,036	
TP	2.43	1.23	1.77	5.90	
Lead	0.15	0.01	0.01	0.03	
TN	12.24	10.25	6.63	29.15	
Zinc	4.13	1.09	2.46	5.61	
Hardness	995.7590	198.5371	136.5876	808.2982	
PCBs	ND	ND	ND	ND	
Disch Vol (gals.)	70,711	75,130	37,565	205,502	0

*Estimate only, subject to errors and assumptions.

2013 Average Annual Load, lbs/day*			
	4th	**Centennial**	**Total**
TSS	151.8	96.1	247.9
TP	0.24	0.14	0.38
Lead	0.01	0.00	0.0083
TN	1.67	0.72	2.39
Zinc	0.15	0.16	0.32
Hardness	36.84	26.39	63.22
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2013 Average Annual Load, lbs/year*			
	4th	**Centennial**	**Total**
TSS	55,394	35,085	90,479
TP	86.6	51.0	137.6
Lead	2.13	0.89	3.02
TN	611.1	262.4	873.4
Zinc	55.1	59.8	115.0
Hardness	13,446	9,631	23,076
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2014

Stormwater/Events Data Files/Water Quality Data

4th Avenue Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.007	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.04	SM 4500N B/4110
Zinc, mg/L	0.01	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	4th Avenue Outfall				
Sample Date	3/8/14	5/4/2014	7/22/2014	9/3/2014	
TSS, mg/L	143	145	133	90	
TP, mg/L	0.21	0.27	0.45	0.23	
Lead, mg/L	0.009	0.019	0.010	0.008	
TN, mg/L	0.97	2.46	5.34	2.40	
Zinc, mg/L	0.17	0.24	0.33	0.18	
Hardness, mg/L	60	41	93	43	
PCBs, ug/L	ND	ND	ND	ND	
Discharge Volume (cubic feet)	29,325	3,910	6,843	25,415	
Discharge Volume (gallons)	219,351	29,247	51,182	190,104	
Event Precip (inches)	0.30	0.04	0.07	0.26	
Inches per year =	27.58	Per USBR AgriMet Station RTHI for calendar year.			

2014

Stormwater/Events Data Files/Water Quality Data

Centennial Trail Outfall

	PQL	Method
TSS, mg/L	1	SM2540
TP, mg/L	0.007	EPA365.3
Lead, mg/L	0.01	SM3120
TN, mg/L	0.04	SM 4500N B/4110
Zinc, mg/L	0.01	SM3120
Hardness, mg/L	0.2	SM2340
PCBs, ug/L	0.2	EPA 808**2**

Concentration					
	Centennial Trail Outfall				
Sample Date	3/8/14	5/4/2014	7/22/2014	9/3/2014	
TSS, mg/L	282	88	107	26	
TP, mg/L	0.30	0.18	0.50	0.01	
Lead, mg/L	0.031	0.014	0.010	0.004	
TN, mg/L	1.32	1.92	9.82	2.31	
Zinc, mg/L	0.38	0.25	0.82	0.35	
Hardness, mg/L	66	43	129	66	
PCBs, ug/L	ND	ND	ND	ND	
Discharge Volume (cubic feet)	8,862	1,182	2,068	7,681	
Discharge Volume (gallons)	66,291	8,839	15,468	57,452	
Event Precip (inches)	0.30	0.04	0.07	0.26	
Inches per year =	27.58	Per USBR AgriMet Station RTHI for calendar year.			

2014

Event Pollutant Discharge (lbs)*					
	4th Avenue Outfall				
Sample Date	3/8/14	5/4/14	7/22/14	9/3/14	
TSS	261.76	35.39	56.81	142.78	
TP	0.38	0.07	0.19	0.37	
Lead	0.02	0.00	0.00	0.00	
TN	1.78	0.60	2.28	3.81	
Zinc	0.31	0.06	0.14	0.28	
Hardness	110.01	9.93	39.76	68.53	
PCBs	ND	ND	ND	ND	
Discharge Volume (gallons)	219,351	29,247	51,182	190,104	
Event Precip (inches)	0.30	0.04	0.07	0.26	
Inches per year =	27.58	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

Estimated Load/Inch Precip (lbs/inch)*					
	4th Avenue Outfall				
Sample Date	3/8/14	5/4/14	7/22/14	9/3/14	
TSS	873	885	812	549	
TP	1.27	1.63	2.76	1.42	
Lead	0.06	0.02	0.01	0.01	
TN	5.94	15.01	32.58	14.64	
Zinc	1.02	1.46	2.01	1.07	
Hardness	366.7	248.3	568.1	263.6	
PCBs	ND	ND	ND	ND	
Disch Vol (gals.)	219,351	29,247	51,182	190,104	0

*Estimate only, subject to errors and assumptions.

2014

Event Pollutant Discharge (lbs)*					
	Centennial Trail Outfall				
Sample Date	3/8/14	5/4/14	7/22/14	9/3/14	
TSS	156.00	6.49	13.81	12.47	
TP	0.17	0.01	0.06	0.01	
Lead	0.02	0.00	0.00	0.00	
TN	0.73	0.14	1.27	1.11	
Zinc	0.21	0.02	0.11	0.17	
Hardness	36.62	3.14	16.65	31.45	
PCBs	ND	ND	ND	ND	
Discharge Volume (gallons)	66,291	8,839	15,468	57,452	
Event Precip (inches)	0.30	0.04	0.07	0.26	
Inches per year =	27.58	Per USBR AgriMet Station RTHI for calendar year			

*Estimate only, subject to errors and assumptions.

Estimated Load/Inch Precip (lbs/inch)*					
	Centennial Trail Outfall				
Sample Date	3/8/14	5/4/14	7/22/14	9/3/14	
TSS	520	162	197	48	
TP	0.55	0.33	0.91	0.02	
Lead	0.06	0.00	0.00	0.00	
TN	2.43	3.54	18.11	4.26	
Zinc	0.71	0.46	1.52	0.65	
Hardness	122.0727	78.5543	237.8758	120.9663	
PCBs	ND	ND	ND	ND	
Disch Vol (gals.)	66,291	8,839	15,468	57,452	0

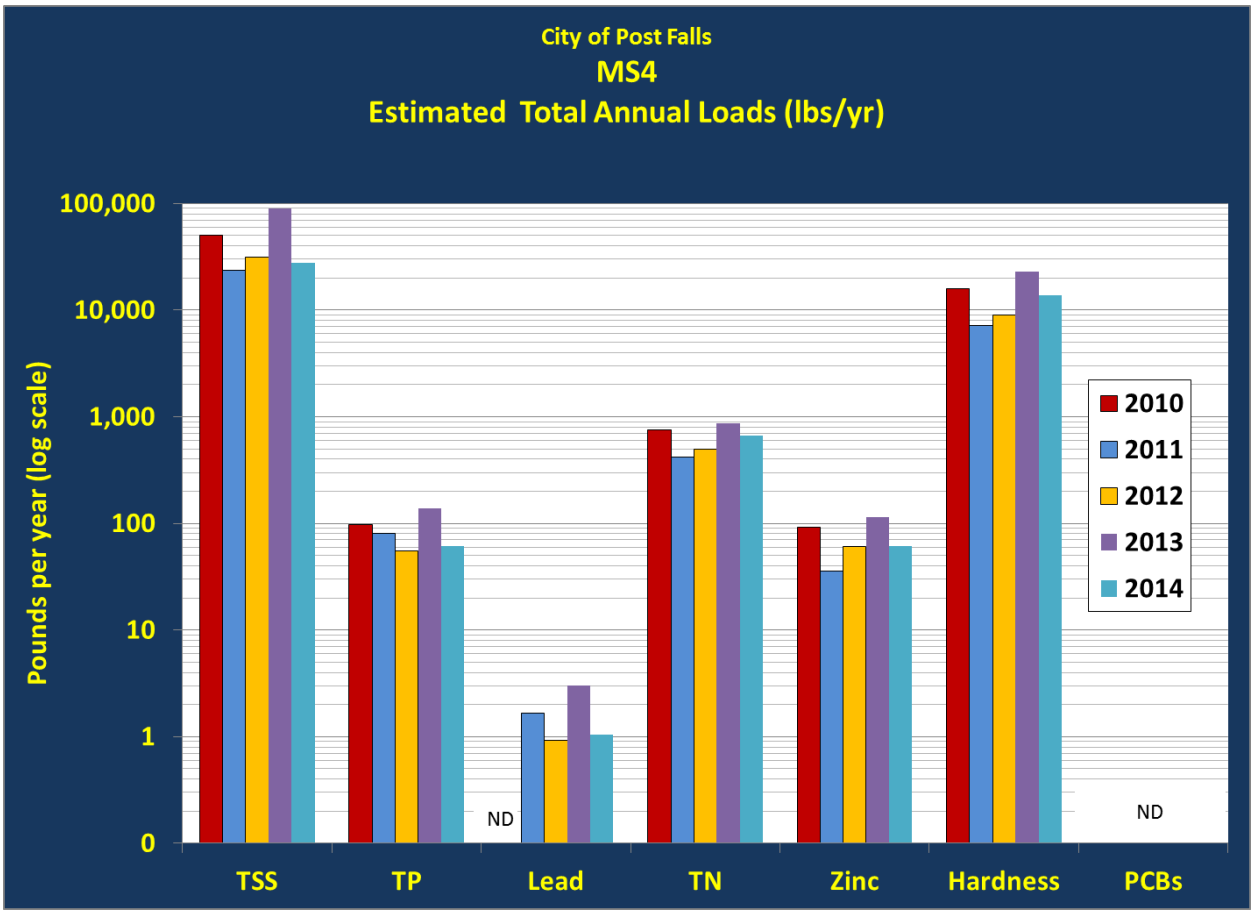
*Estimate only, subject to errors and assumptions.

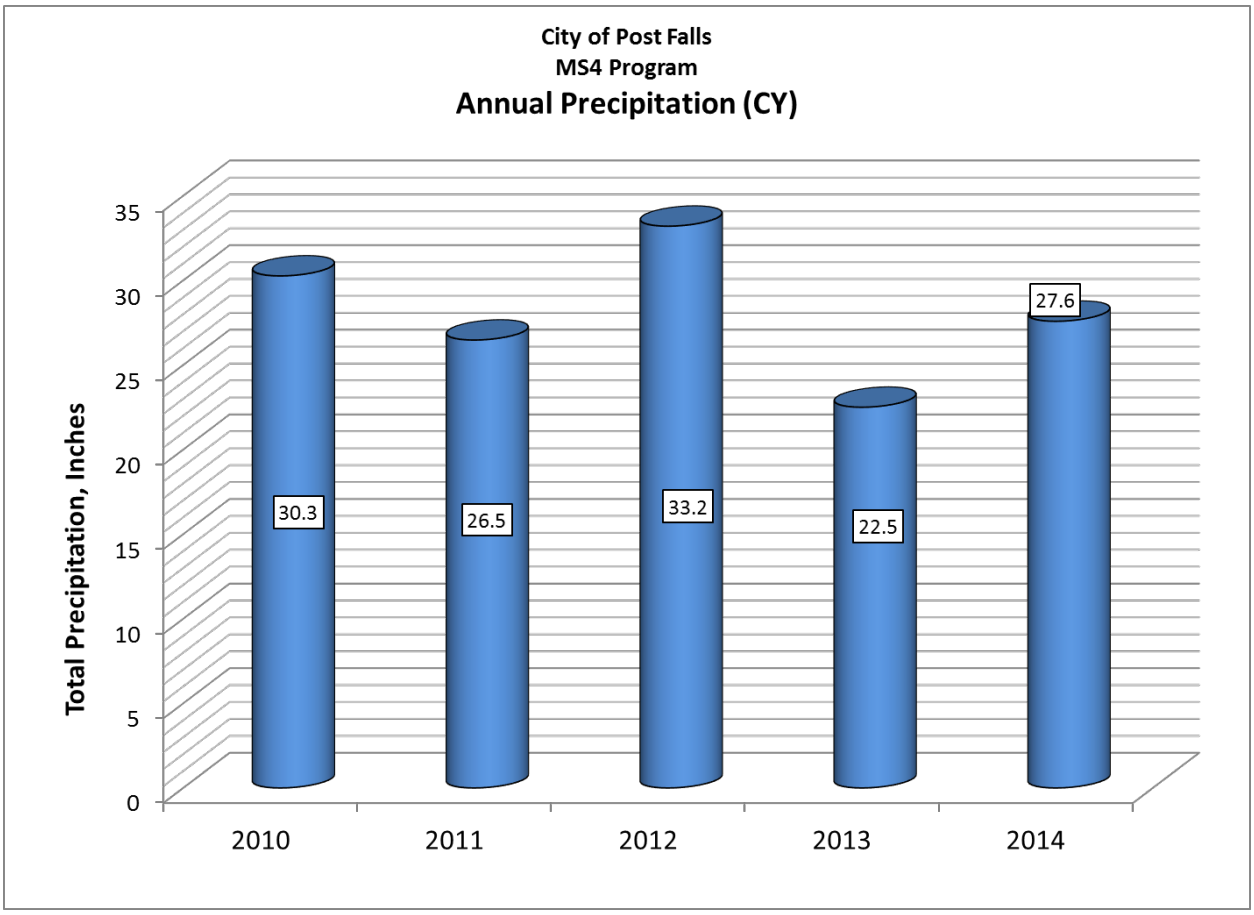
2014 Average Annual Load, lbs/day*			
	4th	**Centennial**	**Total**
TSS	47.1	14.0	61.1
TP	0.11	0.03	0.13
Lead	0.00	0.00	0.0023
TN	1.03	0.43	1.46
Zinc	0.08	0.05	0.13
Hardness	21.86	8.45	30.32
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.

2014 Average Annual Load, lbs/year*			
	4th	**Centennial**	**Total**
TSS	17,198	5,116	22,315
TP	39.1	10.1	49.1
Lead	0.49	0.35	0.84
TN	376.0	156.3	532.4
Zinc	30.7	18.4	49.1
Hardness	7,980	3,086	11,066
PCBs	ND	ND	ND

*Estimate only, subject to errors and assumptions.


City of Post Falls
MS4
Estimated Total Annual Loads (lbs/yr)
Pounds per year (log scale)
100,000
10,000
1,000
100
10
1
0
ND
ND
TSS
TP
Lead
TN
Zinc
Hardness
PCBs
2010
2011
2012
2013
2014


City of Post Falls
MS4 Program
Annual Precipitation (CY)
Total Precipitation, Inches
0
5
10
15
20
25
30
35
30.3
26.5
33.2
22.5
27.6
2010
2011
2012
2013
2014

APPENDIX C: ASSESSMENT OF CONTROL MEASURES

ASSESSMENT OF PROGRAM CONTROL MEASURES

This section of the Annual Storm Water Report summarizes the progress and status of complying with Sections II.B. and II.C. of the MS4 discharge permit. In the following account, the permit requirement is highlighted in bold and the status is in regular font.

Section II. B. Minimum Control Measures

1. Public Education and Outreach

a.) **Within two years of the effective date of the permit, permittee must develop and implement a public education program about the impacts of storm water on the local water bodies.**
This requirement has been met with the deployment and implementation of the Storm Water Management Plan that is posted on the City's website and detailed in this and prior annual reports (also posted on the City's website). Public education efforts have been conducted since January 2010 via provision of brochures, internet postings, outreach events, article submissions to the local paper, public service announcements on the City's TV channel, facility tours and direct mailings to the public.

b) **At least once per year, the permittee must distribute appropriate storm water educational materials to the target audiences.**
On September 29, 2014, an informational letter explaining stormwater pollution prevention was mailed directly to all property owners and occupants of property located adjacent to the MS4 storm sewer system. Addresses were obtained using the City GIS system and business license database. There were 158 letters mailed via USPS mail. A copy of the letter is included in Appendix H.

Throughout the summer, the City participated in reviewing, updating and adding information to the Stormwater Pages for the "Aquifer Atlas", an informational booklet provided to schools and the public. The intention is to better inform the public with regard to stormwater concerns and overall protection of groundwater.

At the building permit service counter, the City continues to make available to the public useful information about the Construction General Permit as well as the Stormwater Erosion & Sediment Control Field Guide

Why do I have to get permit coverage?

The U.S. Environmental Protection Agency's National Pollutant Discharge Elimination System (NPDES) program regulates stormwater runoff from construction sites. The Construction General Permit (CGP) is for construction sites that disturb 1 or more acres, including smaller sites that are part of a larger plan of development (for example, building a house on a half-acre lot in a 10-acre development). Construction site operators need to submit an application called a Notice of Intent (NOI) to be covered under EPA's CGP.

Silt fence failure

In the four states of EPA Region 10, EPA's permit applies to the following areas:

- **Alaska:** Metlakatla Reservation & Denali National Park
- **Idaho:** Kootenai
- **Oregon:** Indian Country lands
- **Washington:** Federal operators & Indian Country lands

All other areas in AK, OR, and WA are regulated by the respective state agencies. More information at http://yosemite.epa.gov/R10/WATER.NSF/NPDES+Permits/Region+10+CGP+resources/

50 foot buffer or equivalent is required for work next to water of the U.S.

Why is stormwater runoff bad?

Runoff from rainstorms and snowmelt picks up pollutants like sediment, oil and grease, nitrogen and phosphorus, and other chemicals and carries them into storm drains or directly into waterbodies. The EPA permit works to prevent contaminated stormwater from being discharged untreated into the water we use for swimming, fishing, and drinking.

Why is sediment harmful to a waterbody?

Too much sediment in a waterbody clouds the water and makes it difficult or impossible for aquatic plants to receive the sunlight they need to grow. Excess sediment smothers aquatic habitat, clogs fish gills, and impedes navigation in our waterways, which can lead to expensive dredging.

Plan for concrete washout & other materials management

I need permit coverage. Where do I start?

1. Read EPA's Construction General Permit (CGP)

Download a copy of EPA's permit at www.epa.gov/npdes/stormwater/cgp. Read the permit carefully; operators are legally responsible for complying with all its provisions.

► Who is an "operator"?

You are an operator if at least one of the following criteria are met: (1) you have operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications, and/or (2) you have day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions, including implementing the Storm Water Pollution Prevention Plan (SWPPP) (see below). On some sites, several entities may meet the definition of operator; if so, each must file a NOI. Operators may include owners, general contractors, and subcontractors. Operators at the same site may share a SWPPP.

2. Develop a storm water pollution prevention plan (SWPPP)

The SWPPP is a plan for how you will control stormwater runoff from your construction site. It is broader and more complicated than an erosion and sediment control plan; the assistance of a professional may save you time. Operator(s) are responsible for developing and implementing a SWPPP, and for maintaining all best management practices (BMPs) during each stage of the project. BMPs are the techniques (buffers, silt fences, detention ponds, swales, etc.), schedules of activities, prohibitions of practices, and maintenance procedures to prevent or reduce the discharge of pollutants. *If you plan to use cationic chemicals to reduce turbidity in your discharge, you need approval from EPA Region 10 before you can submit your NOI.*

The SWPPP must be completed before you file an NOI to apply for coverage under EPA's permit. The plan must be available on-site for review during inspection. Use the permit guidance to determine how to maintain a 50-foot buffer of natural vegetation or the technical equivalent.

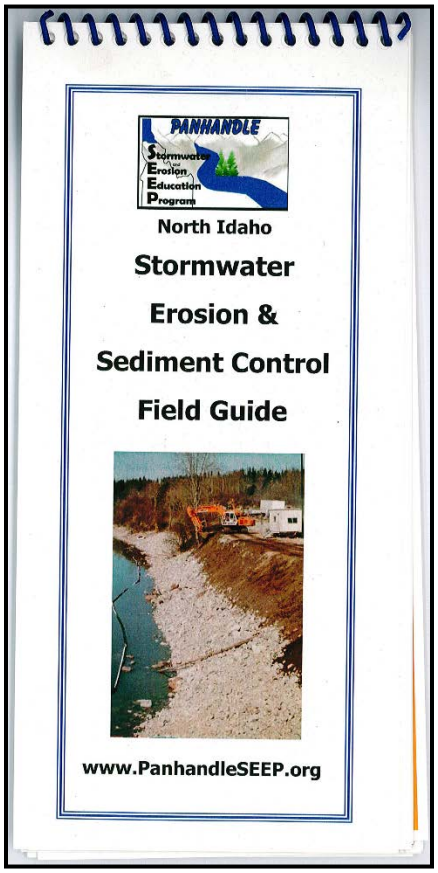
Because every site is unique, every SWPPP is unique. The SWPPP needs to be updated as your work progresses.

Please visit www.epa.gov/npdes/stormwater/cgp for more information on how to develop your SWPPP.

► Basic SWPPP Principles

- Divert stormwater away from disturbed or exposed areas of the construction site.
- Control erosion and sediment and manage stormwater.
- Inspect the site regularly and properly maintain BMPs, especially after rainstorms.
- Revise the SWPPP as site conditions change during construction and improve the SWPPP if BMPs are not effectively controlling erosion and sediment.
- Minimize exposure of bare soils to precipitation.
- Keep the construction site clean by putting trash in trash cans, keeping storage bins covered, and sweeping up excess sediment on roads and other impervious surfaces.

3. Complete an endangered species determination for the project site



c) 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 media outlet.

A public service announcement (PSA), professionally produced on behalf of Panhandle Area Council http://www.pacni.org/, is repeatedly broadcast on City Cable TV 13, running three times per week at 8 a.m. Sunday, 10:30 a.m. Tuesday and 6:44 p.m. Friday. The PSA runs for eight minutes and provides a good overview of erosion, causes, water quality impacts and best management practices for controlling or preventing erosion on construction sites and developments. Panhandle Area Council sponsors the Stormwater and Erosion Education Program which provides classroom and hands-on training to area contractors and government representatives.

On July 11, 2014, an article was jointly submitted by the City and the City of Coeur d'Alene to the local newspaper, The Press. This press release was titled "Public Awareness Program Aimed at Aquifer Protection". The article was not initially published. In December, The Press was provided an updated version, which was published in the newspaper and on the CDAPress.com website. The online version is included, below. The article was also highlighted on the City's Facebook page.

Public awareness program aimed at aquifer protection

Posted: Wednesday, December 17, 2014 12:00 am

They are appearing across Kootenai County - stormwater disks reminding the public that fluids flowing into drywells, catch basins and grassy swales eventually mix into our drinking water.

The cities of Coeur d'Alene and Post Falls, in cooperation with Kootenai County, have invested a total of $2,000 on the disks to remind the public not to dump tainted liquids.

"It all ends up in the aquifer - the area's sole source of drinking water - so maintaining high water quality is of prime importance," said Jim Markley, Coeur d'Alene water superintendent.

John Beacham, Post Falls environmental manager, said the cities invested both time and money to install the disks.

Public awareness program aimed at aquifer protection

Hundreds of these stormwater sewer warning disks have been intalled throughout the area.

Funds for the disks were provided by the Aquifer Protection District, whose purpose is to protect groundwater quality. Residents who live above the aquifer are assessed an annual $6 fee that goes to the APD.

Markley said the disks will last 10 to 20 years, much longer than the painted stencil warnings, which faded in a couple years. There are three different disks - one warning of polluting the aquifer, another for the Spokane River and the third for Lake Coeur d'Alene.

In Coeur d'Alene, disks inform the public that liquids drain into the lake. In Post Falls they warn of potential harm to the river. And in both communities where grassy swales are used, the disks remind people that liquids will eventually flow into the aquifer.

Disks in Coeur d'Alene can be seen in the downtown area. In Post Falls, they have been installed along the main drainage areas of Seltice Way and Spokane Street.

1. **Public Involvement Participation**

a) The permittee must comply with applicable State and local public notice requirements when implementing a public involvement/participation program.

The City abides by the Idaho Open Meeting Law in the performance of its duties, including adoption of rules and regulations.

b) 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 documentation and Annual Reports must be posted online through its regularly maintained website (or a website sponsored by the permittee).

All relevant SWMP documents and all Annual Reports required by this permit are available to the public and posted online at the City's official website: http://www.postfallsidaho.org/

2. **Illicit Discharge Detection and Elimination**

a) Within two years from the effective date of this permit, the permittee must develop and implement a program to detect and eliminate illicit discharges from the 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 procedures for detection, identification of the source, and removal of non-storm water discharges from the MS4. This program must 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.

Procedures for implementing the Illicit Discharge Detection and Elimination Program were completed in 2010 and are included in the City's Storm Water Management Plan which is posted on the City's website.

a) 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 for enforcement escalation procedures for recalcitrant or repeat offenders.

In 2010, the City updated its Storm Water, ordinance, Chapter 13.44, to define and prohibit illicit discharge, and developed and implemented enforcement procedures which are documented in the Storm Water Management Plan and posted on the City's website.

b) Through the ordinance or other regulatory mechanism set forth in Section II.B.3.b, the permittee must prohibit any of the non-storm water 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 non-storm water discharges.

In 2010, the City updated its Storm Water Ordinance, Chapter 13.44, to define and prohibit illicit discharge, and developed and implemented enforcement procedures which are documented in the Storm Water Management Plan and posted on the City's website. The City's ordinances are available to the public on the City's website: http://www.postfallsidaho.org/ Allowable non-storm water discharges from potable water sources include fire fighting activities, water distribution system maintenance, street wash water, overspray and small amounts of runoff from irrigation of vegetation that comply with the City's prohibition of water wasting, Chapter 13.12.060.

c) 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(s) 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 MD4's, 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 maps(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 completed a comprehensive MS4 map in 2009 and posted it in PDF format on the City's website. In 2012, the MS4 map was converted to Arc GIS format and replaced the PDF formatted map on the City's website. Copies of these maps have been submitted electronically and in hard copy to EPA and IDEQ in 2010, 2011, and 2012.

d) Within two years from the effective date of this permit, the permittee must begin an ongoing education program to inform users of the system, 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 initiated its ongoing education program in 2010. The program includes informing the public, users of the MS4 and public employees of the City of Post Falls of the hazards associated with illegal discharges and improper disposal of waste.

Further documentation of the public outreach component of Section II. B. 1. is provided in the prior section of this Appendix. City employees associated with the MS4 facilities, development services and field staff have been provided annual storm water education since 2010. Topics have included proper storage of materials, street maintenance, parks maintenance and illicit discharges.

e) 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 stormwater outfalls. By the expiration date of the permit, 100% 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 kits" using test methods not approved by EPA under 40 CFR Part 136, provided the manufacturer's published detection ranges are adequate for the illicit discharge detection 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 detection.

The City initiated dry weather field screening of the MS4 system in 2011. The results of the screening were posted with the 2011 annual report. The City has only two (2) outfalls, and 100% of those outfalls were screened for dry weather flows in 2011. The only source of dry weather flows was from irrigation runoff. No industrial discharges were found. In 2012, the City conducted dye testing of a dry cleaner business on Spokane Street and found that there was not an illicit discharge to the MS4 system. In November and December 2012, the City conducted a survey of jurisdictional roads and properties adjacent to the Spokane River and did not detect any illicit discharges to the MS4 or storm water discharges or industrial discharges to the river.

f) Within three years from the effective date of this permit, the permittee must inventory all industrial facilities that discharge into the permittee's MS4 and/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 inventories are set forth in 40 CFR § 122.26(b)(14)(i-x) through (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.

In December 2012, the City conducted a visual survey of industrial properties adjacent to the river in the Riverbend Industrial Park and did not detect any industrial or storm water discharges to the river. The 2011 Survey did not detect any existing industrial discharges to the City's MS4 system. There have been no new industries added to the MS4 system. Developments within the City are required to provide on-site storm water management. The City's nearly universal system of curbs, gutters and bio-filtration swales helps prevent storm water discharges outside of the MS4 facilities. Soils in the City are typically sand and gravel and are highly suited to on-site disposal of storm water via bio-filtration swales and drywells. An end-to-end

survey of perimeter roads adjacent to the river in November and December 2012 did not detect any storm water discharges to the river.

3. Construction Site Storm Water Runoff Control

a) 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 acre. 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.

In 2010, the City adopted ordinances regarding construction sites, as Chapter 13.44.050, General Requirements, Section E., which requires developers to verify applicability of the Construction General Permit by either providing a copy of their Notice of Intent (NOI) for coverage under the CGP, or a design professional's certification that the project is exempt from the CGP. Projects that are subject to the CGP must maintain a copy of their Storm Water Pollution Prevention Plan (SWPPP) at the project site. CGP-covered projects with the potential to discharge storm water to the MS4 system are inspected during the construction project. In 2010, the City developed a procedure for such inspections which is included in the Storm Water Management Plan posted on the City's website.

b) 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, #IDR10-0000 (Construction General Permit).

When developers and contractors come in to City hall for a building permit, they are informed of the CGP requirement stated above. The Stormwater Erosion & Sediment Control Field Guide is also available to the developers and contractors on the City's website.

c) 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 and local law that requires 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.

The City's existing ordinance, Title 8 - Health and Safety, Chapter 8.24, Refuse and Stagnant Water, prohibits the accumulation of any stagnant water or impure water, refuse, vegetable decay or decaying substance, garbage or filth of any kind, nor suffer such yard, lot, place, building or premises to be or to remain in such condition as to

cause or create a nuisance or offensive smell or to pollute or render unhealthful the atmosphere or the premises or create a rodent harborage, or thereby to be, become, cause or create a public nuisance. More importantly, all development projects requiring a storm water management system shall provide grass infiltration areas or acceptable alternatives (Chapter 13.44.060), thus prohibiting new discharges of storm water to the MS4. Further, Chapter 13.44.100, Prohibited Conduct, prohibits any person from damaging or impairing any of the grass infiltration areas or any portion of the stormwater management system:

13.44.100: PROHIBITED CONDUCT:

A. No person shall cause, permit or contribute to illicit discharges to the MS4.

B. No person shall damage, harm, fail to install or complete, or otherwise impair the grass infiltration areas, approved methods of transmission of stormwater to grass infiltration areas or any portion of the stormwater management system required to be installed pursuant to this chapter. Unless other provisions are made in the process of development review and approval, responsibility for maintenance of stormwater system elements remains with the property owner and violation of these maintenance requirements shall also constitute a violation of this chapter. Occupancy of a dwelling or building without having first obtained a certificate of occupancy, when compliance of this chapter is a condition precedent to issuance of the certificate of occupancy, is a violation of this chapter, in addition to any building and zoning ordinance from which the occupancy requirement derives. (Ord. 1188 § 2, 2010)

d) **Within two years from the effective date of this permit, the permittee must publish and distribute local 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 the construction site) that may cause adverse impacts to water quality.**

At the building permit service counter, the City continues to make available to the Public the Stormwater Erosion & Sediment Control Field Guide. The Field Guide is also available on the City's website. A public service announcement (PSA), professionally produced on behalf of Panhandle Area Council http://www.pacni.org/, continues to run three times per week at 8 a.m. Sunday, 10:30 a.m. Tuesday and 6:44 p.m. Friday. The PSA runs for eight minutes and provides a good overview of erosion, causes, water quality impacts and best management practices for controlling or preventing erosion on construction sites and developments. Panhandle Area Council sponsors the Stormwater and Erosion Education Program which provides classroom and hands-on training to area contractors and government representatives.

e) 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.

The City reviews all new development/construction plans prior to issuing construction permits. Every new development plan is reviewed for compliance with the City's ordinances, including the Storm Water Management ordinance. Further details of storm water controls for new projects are provided in the Construction Improvement Agreement required of all new developments. These agreements are posted at www.postfallsidaho.org/documentcenterlong.html under "Engineering"

The City allows plat recordation once all approvals and agreements are in place and the public improvements are bonded for at 150% of the engineers estimate. Prior to the City accepting the constructed improvements, storm water facilities are to be at the following stages – grassy swales are to be roughed in, top soil placed and hydro-seeded and additional storm water facilities, such as drywells, scuppers, catch basins and piping need to be completed. As the majority of our grassy swales are continual swales that run parallel to the roadways, when the lots are developed, the swales will receive final grading, final hydro-seeding or top soil. Those facilities are inspected in accordance with the City's "Engineering Project Certification and Quality Control Standards" prior to issuing a certificate of occupancy for those developing lots

f) Within three 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 provides several avenues for citizens to register complaints or inquire about the storm water program. Complaints or concerns may be delivered to the City via email, telephone, letter or in person at City Hall. In 2014, the Storm Water Program received no complaints about runoff or sediment from construction sites in the City of Post Falls that disturbed one or more acres or less than one acre that was a part of larger project that disturbed one or more acres and had the potential to discharge to the MS4 system.

g) 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. As part of these procedures, the permittee shall inspect all

construction sites in their jurisdiction for appropriate erosion/sediment/waste control at least once per construction season.

In 2010, the City developed and implemented procedures for site inspection and enforcement of control measures, which is posted on the City's website as part of the Storm Water Management Plan. In 2014, there was one construction project, the Spokane Street Improvements, in the City of Post Falls that disturbed more than one acre and had the potential to discharge to the City's MS4 system. The project was funded and overseen by the local Urban Renewal Agency. This project was inspected regularly as part of, and in addition to, the City's ongoing project oversight. Several projects in 2014 disturbed an area greater than 1 acre but were topographically prevented from discharging to the City MS4.

h) 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.

The City constructed a new lift station during 2014, the 3rd Avenue Lift Station Replacement. The project documents included specific language ensuring appropriate storm water management. The requirements were monitored on a regular basis as part of, and in addition to, construction observation associated with the project. This project was topographically isolated from the MS4 system and incorporates onsite stormwater facilities.

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

a) Within three years from the effective date of this permit, the permittee must implement a program to address post-construction storm water runoff from new development projects that disturb greater than or equal to one acres (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.

The City had no projects applicable to this requirement in 2014.

b) 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 and update existing procedures, policies, and authorities (e.g., Post Falls City Ordinance #716) to assist in the development of the required regulatory mechanism.

The City has had a Storm Water Management Ordinance since 2007, updated in 2010. The SWM Ordinance, Chapter 13.44, requires the installation of storm water management facilities for all new developments and the protection and maintenance of all such facilities such that storm water is not discharged off site. See: http://www.sterlingcodifiers.com/codebook/index.php?book_id=350

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

The City has in place appropriate regulatory controls to ensure long term operation and maintenance of permanent storm water controls. SWM Ordinance, Chapter 13.44, requires the landowner to maintain storm water facilities such that storm water is not discharged off site, and prohibits any person from damaging, harming , failing to install or complete or otherwise impair the storm water management systems. See: http://www.sterlingcodifiers.com/codebook/index.php?book_id=350

d) 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 maintenance and operation.

The City reviews all new development/construction plans prior to issuing construction permits. Every new development plan is reviewed for compliance with the City's ordinances, including the Storm Water Management Ordinance. Further details of storm water controls for new projects are provided in the Construction Improvement Agreement required of all new developments. See: http://www.postfallsidaho.org/PZDept/pzforms/ResidentialConstImprovementAgreement.pdf

The City allows plat recordation once all approvals and agreements are in place and the public improvements are bonded for at 150% of the engineers estimate. Prior to the City accepting the constructed improvements, storm water facilities are to be at the following stages – grassy swales are to be roughed in, top soil placed and hydro-seeded and additional storm water facilities, such as drywells, scuppers, catch basins and piping need to be completed. As the majority of our grassy swales are continual swales that run parallel to the roadways, when the lots are developed, the swales will receive final grading, final hydro-seeding or top soil. Those facilities are inspected in

accordance with the City's "Engineering Project Certification and Quality Control Standards" prior to issuing a certificate of occupancy for those developing lots.

5. **Pollution Prevention and Good Housekeeping for Municipal Operations**

a) 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.

The City developed a Storm Water Pollution Prevention Plan for the wastewater and streets/fleet maintenance site in 2010, even though these facilities cannot discharge to the MS4 system. The plan is posted on the City's website. The City does not have maintenance facilities that are proximate to the MS4 system. The City does not have a municipal golf course, nor operate solid waste transfer facilities, nor have water treatment plant operations, nor have municipal refueling facilities. The City does not store on site sand or de-icer chemicals. The use of sand and road de-icer is in accordance with conventional practices for highway safety. The City conducts street sweeping on a regular basis; a total of 1,918 cubic yards of dirt and debris were removed from City streets in 2014.

In 2014, the City inspected the two storm water outfalls and performed water quality monitoring as required by permit; located catch basins by GPS; cleaned over 100 catch basis with a vacuum truck; installed new high-durability drain markers; and direct mailed stormwater pollution prevention information to all MS4 users. There were no stormwater complaints related to construction projects pertinent to the MS4.

b) 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.

In 2011, City employees received storm water training in the areas of fleet maintenance, material storage, parks and grounds maintenance, solid waste disposal and/or streets and drainage maintenance. The training materials were provided by the Texas Council on Environmental Quality and USEPA.

In 2012, City employees selected storm water training from a number of sources, Including Storm Water Pollution Awareness and Prevention Training (University of Colorado at Denver) which covered illicit discharge, sources of pollution, allowable non-storm water discharges, vehicle washing and fueling, outdoor storage, waste containers and drum management, vehicle parking lots, grounds maintenance, good housekeeping, preventive maintenance, and spill prevention and response. Other training materials provided were Storm Water: Why Take It Personally? (North Central Texas Council of Governments), Stormwater video (City of Sandy Springs), and Stormwater Runoff 101 video (National Resource Defense Council). The City's storm water technician completed a two day course in construction site erosion control and the Construction General Permit.

In 2013 and 2014, City employees selected storm water training from the Texas Council of Environmental Quality employee training videos covering the following topics:

1. Introduction: What We Can Do.
2. Construction Activities and Land Disturbances.
3. Fleet Maintenance and Materials Handling.
4. Streets and Drainage Maintenance
5. Parks and Grounds Maintenance
6. Solid Waste Management

c) 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 City developed and implemented a storm water pollution plan for the fleet maintenance/street division site and wastewater treatment plant in 2010. The SWPP is posted on the City's website as part of the Storm Water Management Program document. It should be noted that none of these facilities has the potential to discharge to the MS4 because of their physical separation from the MS4.

6. **Discharges to Water Quality-Impaired Receiving Waters.**

a) The permittee must conduct storm water discharge and receiving water monitoring as required in Part IV.

Since 2009, the City has conducted storm water discharge and receiving water monitoring as required in Part IV. The results are found in Appendix – B of this report.

b) The permittee must determine whether storm water discharges from any part of the MS4 contribute pollutants of concern, either directly or indirectly, to any Clean Water Act ("CWA" or "Act") Section 303(d) listed water bodies. For the purposes of this permit, the Section 303 (d) listed water bodies according to the IDEQ 2002 Integrated Report and the 2004 Washington Water Quality Assessment Report include but are not limited to, the Spokane River and associated tributaries. "Pollutant(s) of concern" refer to the pollutant(s) identified as causing or contributing to the water quality impairment. Pollutants of concern for the purposes of this permit are metals, (specifically, lead and zinc), nutrients (specifically phosphorus and nitrogen), sediment, dissolved oxygen, total polychlorinated biphenyls, and temperature.

The City of Post Falls' MS4 contributes pollutants of concern indirectly to the Spokane River, including lead, zinc, phosphorus, nitrogen, suspended solids and temperature. An assessment of the contribution of pollutants to the river is included in the following:

CONCLUSIONS OF DATA REVIEW (January 2015)

1. The volume of water discharged by the Post Falls MS4 is on the order of one-ten thousandth (1/10,000) of the annual flow of the Spokane River.

2. The Post Falls MS4 contributes less one one-thousandth (1/1,000) of the pollutant loads in the Spokane River.

3. Pollutant loads from the Post Falls MS4 are less than the detectable pollutant loads existing in the Spokane River upstream of the MS4 outfalls.

4. The variability of MS4 pollutant load estimates is most related to variations in weather, localized precipitation patterns, and temporal monitoring patterns. These variations preclude a BMP effectiveness determination over the course of the monitoring period. In any event, the MS4 flows and loads are insignificant relative to the existing flows and loads in the Spokane River.

The above conclusions are supported by the following data.

MS4 LOADS vs RIVER LOADS

MS4 Total Annual Loads, lbs/year

1. MS4 Combined (4th + Centennial)

Year	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	50,409	97	ND	747	92	15,906	ND
2011	23,779	80	1.7	419	35	7,226	ND
2012	31,653	55	0.9	494	60.3	8,978	ND
2013	90,479	138	3.0	873	115.0	23,076	ND
2014	27,893	61	1.0	665	61.3	13,832	ND

Total Annual Loads, lbs/day

2. MS4 Combined (4th + Centennial)

Year	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	138	0.26	ND	2.05	0.25	44	ND
2011	65	0.22	0.0045	1.15	0.10	20	ND
2012	87	0.15	0.0025	1.35	0.17	24.6	ND
2013	248	0.38	0.0083	2.39	0.32	63.2	ND
2014	76	0.17	0.0029	1.82	0.17	37.9	ND

SPOKANE RIVER FLOWS AT LAKE OUTLET

3. Annual Average Discharge, CY (USGS)

Water Year	Discharge, cubic feet per second	Cubic feet per year	Gallons per year	MG/yr	Water lbs/yr
2010	4583	1.45E+11	1.08E+12	1,081,081	9.0E+12
2011	9399	2.96E+11	2.22E+12	2,217,123	1.9E+13
2012	8073	2.55E+11	1.90E+12	1,904,334	1.6E+13
2013	4953	1.56E+11	1.17E+12	1,168,360	9.7E+12
2014	7143	2.25E+11	1.68E+12	1,684,957	1.4E+13
Average=	6,830	2.15E+11	1.65E+12	1,649,102	1.38E+13

Water Quality Data

1. UPSTREAM: Spokane River Lake Outlet near CdA					(source: USGS)	USGS Site	12417610
Date	TSS, mg/L	TP, mg/L	Lead, ug/L	TN, mg/L	Zinc, ug/L	Hardness, mg/L	PCBs, ng/L
1/27/2010	1	0.005	0.63	na	50	19.1	na
4/6/2010	2	0.005	0.73	na	52	20.4	na
4/26/2010	1	0.005	1.04	na	51.5	20.1	na
7/13/2010	2	<.008	0.96	na	39.6	19.4	na
10/14/2010	na	0.004	0.59	na	39.2	20.5	na
12/20/2010	na	< 0.004	0.51	na	50	21.8	na
1/20/2011	na	0.006	2.06	na	57.2	22.9	na
2/16/2011	na	0.01	7.7	na	60	22.4	na
6/10/2011	na	0.016	4.18	na	69.4	16.2	na
7/20/2011	na	0.006	1.33	na	33.6	16	na
10/5/2011	na	0.006	1.07	na	52.8	16.8	na
2/7/2012	na	0.004	0.51	na	66.7	19.3	na
2/28/2012	na	0.004	0.49	na	45.5	19.5	na
3/19/2012	na	0.008	0.78	na	51.5	21.5	na
4/30/2012	na	0.016	18.1	na	56.7	17.5	na
7/3/2012	na	0.006	2.04	na	38.1	16.8	na
10/11/2012	na	na	0.89	na	33.3	19.2	na
11/23/2012	12	< 0.004	0.8	< 0.05	43.7	19.6	na
2/5/2013	1	0.005	0.82	0.07	51.3	20.4	na
3/20/2013	2	0.006	0.79	0.1	54.1	20.4	na
4/10/2013	2	0.007	1.87	0.11	58.1	21.2	na
7/2/2013	1	< 0.004	0.54	0.06	34.2	17.8	na
10/24/2013	2	< 0.004	0.53	0.06	38.3	19.6	na
12/4/2013	1	0.004	0.67	0.09	48.8	21.1	na
2/4/2014	1	0.004	0.87	0.07	50.6	21.4	na
3/12/2014	1	0.006	1.02	0.07	51.4	22.5	na
5/20/2014	1	0.007	2.89	0.09	38.9	16.4	na
7/10/2014	2	< 0.004	0.56	0.07	28.8	17.5	na
10/2/2014	< 0.5	< 0.004	0.88	0.08	28.5	18.5	na
average 2010	2	0.005	0.74	na	47.1	20.2	na
average 2011	na	0.009	3.27	na	54.6	18.9	na
average 2012	na	0.008	3.37	na	47.9	19.1	na
average 2013	2	0.006	0.87	0.08	47.5	20.1	na
average 2014	1	0.006	1.24	0.08	39.6	19.3	na

*No USGS data for PCBs at this location.

2. DOWNSTREAM: Spokane River near Post Falls - Corbin Park					(source: USGS)	USGS Site	12419000
Date	TSS, mg/L	TP, mg/L	Lead, ug/L	TN, mg/L	Zinc, ug/L	Hardness, mg/L	PCBs, ng/L
7/12/2010	2	0.009	1.21	na	39.2	20.1	na
10/15/2010	na	0.012	0.9	na	38.3	21	na
1/20/2011	na	0.009	4.06	na	68.2	23.3	na
6/10/2011	na	0.01	4.52	na	41.7	16.7	na
7/20/2011	na	0.008	1.29	na	31.4	16.4	na
10/6/2011	na	0.007	0.76	na	29	18.1	na
2/28/2012	na	0.007	0.8	na	47	19.8	na
5/1/2012	na	0.016	16.9	na	56.9	17.4	na
7/3/2012	na	0.011	1.96	na	39	16.7	na
10/12/2012	1	0.007	0.71	na	31.1	20.6	na
3/20/2013	1	0.006	1.14	na	53.1	20.6	na
4/11/2013	2	0.007	1.91	na	56.7	21.3	na
7/2/2013	1	0.004	0.9	na	30.6	18.5	na
10/25/2013	1	0.004	0.53	na	37.1	20.4	na
3/13/2014		0.011	2.73	na	50.7	22.5	na
5/21/2014	2	0.008	2.77	na	39.6	16.6	na
7/11/2014	2	0.007	0.88	na	27.7	17.9	na
average 2010	2	0.010	2.06	na	48.6	21.5	na
average 2011	na	0.009	2.66	na	42.6	18.6	na
average 2012	1	0.010	5.09	na	43.5	18.6	na
average 2013	1	0.005	1.12	na	44.4	20.2	na
average 2014	2	0.009	2.13	na	39.3	19.0	na

*No USGS data for TN or PCBs at this location.

Recent USGS data for TN at Corbin is not available, but the average from 2003 - 2007 (n=9) = 0.27 mg/L TN.

No USGS data for PCBs at this location

Average Annual Water Quality

1. UPSTREAM: Spokane River Lake Outlet near CdA

	TSS, mg/L	TP, mg/L	Lead, mg/L	TN, mg/L	Zinc, mg/L	Hardness, mg/L	PCBs, ng/L
average 2010	2	0.005	0.74	na	47.1	20.2	na
average 2011	na	0.009	3.27	na	54.6	18.9	na
average 2012	na	0.008	3.37	na	47.9	19.1	na
average 2013	2	0.006	0.87	0.08	47.5	20.1	na
average 2014	1	0.006	1.24	0.08	39.6	19.3	na

2. DOWNSTREAM: Spokane River near Post Falls - Corbin Park

	TSS, mg/L	TP, mg/L	Lead, mg/L	*TN, mg/L	Zinc, mg/L	Hardness, mg/L	PCBs, ng/L
average 2010	2	0.010	2.06	na	48.6	21.5	na
average 2011	na	0.009	2.66	na	42.6	18.6	na
average 2012	1	0.010	5.09	na	43.5	18.6	na
average 2013	1	0.005	1.12	na	44.4	20.2	na
average 2014	2	0.009	2.13	na	39.3	19.0	na

Recent USGS data for TN at Corbin is not available, but the average from 2003 - 2007 (n=9) = 0.27 mg/L TN.

Average Annual River Loadings (lbs/yr)

1. UPSTREAM: Spokane River Lake Outlet near CdA

	TSS	TP	Lead	TN	Zn	Hardness	PCBs
average 2010	13,532,426	42,853	6,706,069	na	424,467,097	182,387,031	na
average 2011	na	162,817	60,464,191	na	1,010,203,429	348,945,726	na
average 2012	na	120,777	53,600,328	na	761,664,971	302,849,798	na
average 2013	14,624,941	53,625	8,482,466	796,247	462,798,144	195,811,715	na
average 2014	17,576,209	79,679	17,491,843	1,068,634	557,376,741	270,814,229	na

2. DOWNSTREAM: Spokane River near Post Falls - Corbin Park

	TSS	TP	Lead	TN	Zn	Hardness	PCBs
average 2010	18,043,235	90,216	18,554,460	na	438,149,883	193,664,053	na
average 2011	na	157,266	49,168,784	na	787,718,150	344,597,781	na
average 2012	15,891,669	162,890	80,928,322	na	691,287,582	295,982,327	na
average 2013	12,187,451	51,187	10,919,956	na	432,654,515	196,949,210	na
average 2014	28,121,934	121,862	29,902,990	na	553,064,711	267,158,377	na

River Flow (MG/yr)	
average 2010	1,081,081
average 2011	2,217,123
average 2012	1,904,334
average 2013	1,168,360
average 2014	1,684,957

3. MS4 Combined (4th + Centennial)

	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	50,409	96.6	ND	747	92	15,906	ND
2011	23,779	80.0	1.7	419	35	7,226	ND
2012	31,653	54.7	0.9	494	60	8,978	ND
2013	90,479	138	3	873	115	23,076	ND
2014	27,893	61.4	1.0	665	61	13,832	ND

MS4 Flow (MG/yr)	
average 2010	29
average 2011	25
average 2012	32
average 2013	21
average 2014	26

LIMITS OF QUANTIFICATION

1. Minimum Levels of Quantification - Concentration (mg/L)

	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
USGS (see note)	1	0.004	0.00001	0.01	0.0001	0.1	na
MS4 (PQL)	1	0.025	0.01	0.08	0.013	0.2	0.0002

Note: In the absence of "<detection limit" data, USGS MLs are assumed to be the least significant figure of the reported data.

2. River: Minimum Levels of Quantification - Annual Load (lbs/yr)

	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	9,021,617	36,086	90	90,216	902	902,162	na
2011	18,501,894	74,008	185	185,019	1,850	1,850,189	na
2012	15,891,669	63,567	159	158,917	1,589	1,589,167	na
2013	9,749,961	39,000	97	97,500	975	974,996	na
2014	14,060,967	56,244	141	140,610	1,406	1,406,097	na

3. MS4: Minimum Levels of Quantification - Annual Load (lbs/yr)

	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	240.4	6.0	2.4	19.2	3.1	48.1	0.05
2011	210.3	5.3	2.1	16.8	2.7	42.1	0.04
2012	263.8	6.6	2.6	21.1	3.4	52.8	0.05
2013	178.8	4.5	1.8	14.3	2.3	35.8	0.04
2014	219.1	5.5	2.2	17.5	2.8	43.8	0.04

RATIO OF MS4 LOAD TO RIVER LOAD

1. MS4 LOAD VERSUS MINIMUM DECTECTABLE ANNUAL RIVER LOAD

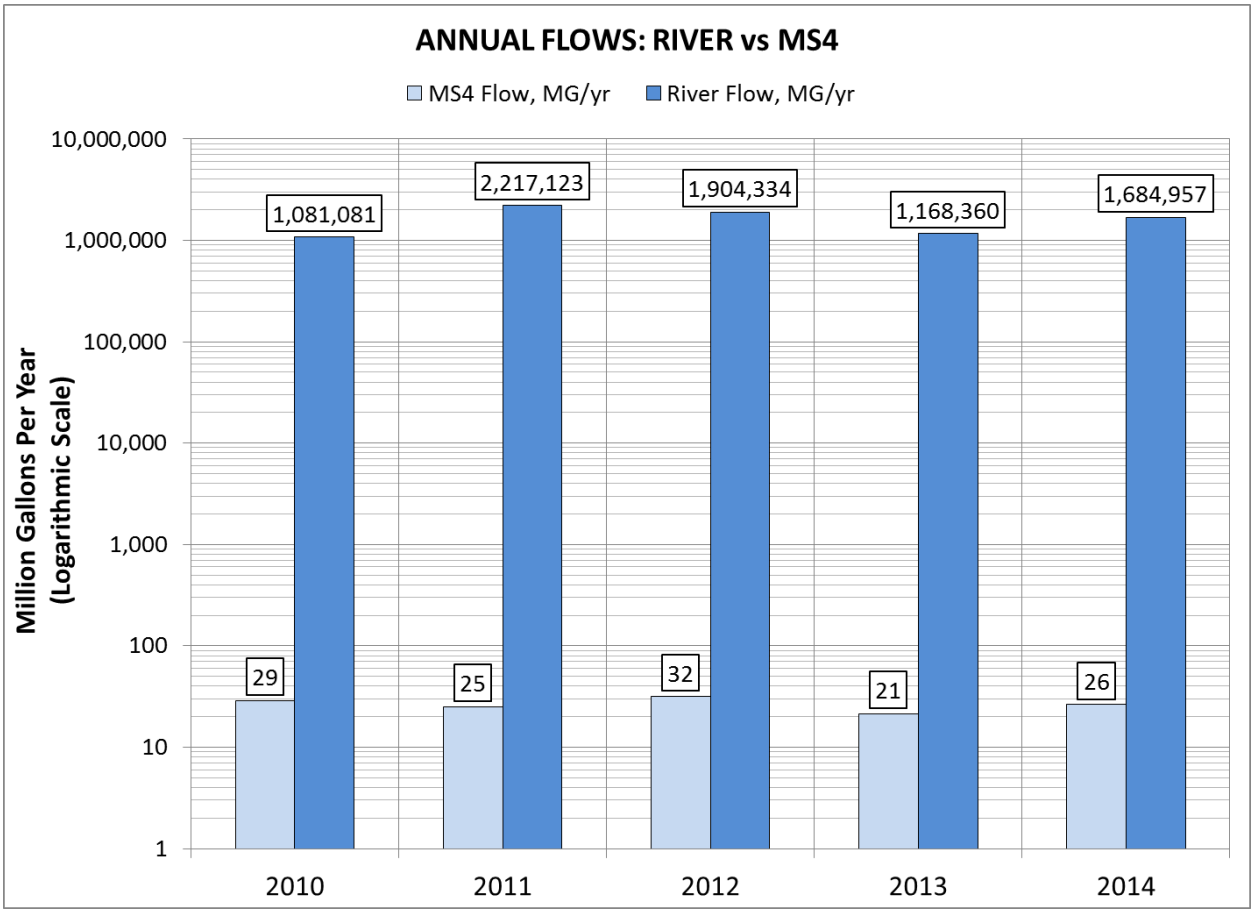
	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	0.6%	0.3%	NA	0.8%	10.2%	1.8%	na
2011	0.1%	0.1%	0.9%	0.2%	1.9%	0.4%	na
2012	0.2%	0.1%	0.6%	0.3%	3.8%	0.6%	na
2013	0.9%	0.4%	3.1%	0.9%	11.8%	2.4%	na
2014	0.2%	0.1%	0.7%	0.5%	4.4%	1.0%	na

CONCLUSION: MS4 loading is less than the minimum measurable load in the river.

2. MS4 LOAD AS A PERCENT OF UPSTREAM RIVER ANNUAL LOAD

	TSS	TP	Lead	TN	Zinc	Hardness	PCBs
2010	0.37%	0.23%	NA	NA	0.000022%	0.009%	na
2011	na	0.05%	0.000003%	NA	0.000004%	0.002%	na
2012	na	0.05%	0.000002%	NA	0.000008%	0.003%	na
2013	0.62%	0.26%	0.000036%	NA	0.000025%	0.012%	na
2014	0.16%	0.08%	0.000006%	NA	0.000011%	0.005%	na

CONCLUSION: MS4 loading is insignificant relative to the loading in the upstream river.


ANNUAL FLOWS: RIVER vs MS4
MS4 Flow, MG/yr
River Flow, MG/yr
Million Gallons Per Year (Logarithmic Scale)
10,000,000
1,000,000
100,000
10,000
1,000
100
10
1
1,081,081
2,217,123
1,904,334
1,168,360
1,684,957
29
25
32
21
26
2010
2011
2012
2013
2014

c) Within one year from the effective date of this permit, the permittee's Annual Report must include a description of how the activities in each of the minimum control measures in Part II.B will be targeted by the permittee to control the discharge of pollutants of concern, and ensure to the maximum extent practicable that the MS4 discharges will not cause an in-stream violation of the applicable water quality standards. This discussion must specifically identify how the permittee will evaluate and measure the effectiveness of the SWMP to control the discharge of the pollutants(s) of concern. The permittee must submit this section of the SWMP to EPA and IDEQ as part of the first Annual Report required in Part IV.C, and update it as necessary in subsequent Annual Reports.

In a letter to EPA and copy to IDEQ dated August 15, 2011, the City of Post Falls provided its first description of how the activities in each of the minimum control measures in Part II.B will be targeted by the permittee to control the discharge of pollutants of concern, and ensure to the maximum extent practicable that the MS4 discharges will not cause an in-stream violation of the applicable water quality standards. In essence, the measure of control measure effectiveness is the impact the MS4 discharges have on water quality of the river.

With five years' data now available, trending analysis can be conducted. The results of this analysis are included in section C.2. above. These data indicate that although the concentrations of some parameters of concern in discharges from the MS4 are higher than the concentration of the same parameters in the river, the resultant impact on in-stream concentrations and loads is so low as to not be measurable. A mathematical analysis (see section C.2., above) of mass loading indicated that the miniscule volume of the MS4 discharge relative to river flow has no measurable effect on pollutant concentrations in the river. We therefore conclude that discharges from the Post Falls MS4 do not cause Idaho in-stream water quality standards to be exceeded.

APPENDIX D: SUMMARY OF INSPECTIONS AND ENFORCEMENT ACTIONS

In 2014, there was one construction project, the Spokane Street Improvements, in the City of Post Falls that disturbed more than one acre and had the potential to discharge to the City's MS4 system. The project was funded and overseen by the local Urban Renewal Agency. This project was inspected regularly as part of, and in addition to, the City's ongoing project oversight.

Four monthly inspections were conducted during the time of construction. All inspections indicated the site appeared to be in compliance with the SWPPP. As a result, no formal enforcement actions were taken.

Several projects in 2014 disturbed an area greater than 1 acre but were topographically prevented from discharging to the City MS4.

APPENDIX E: SUMMARY OF ENFORCEMENT ACTIONS RECEIVED

The City of Post Falls MS4 did not receive any enforcement actions from a designated storm water regulatory agency in 2014.

APPENDIX F: SCHEDULE OF PLANNED IMPLEMENTATION ACTIVITIES FOR 2015

The activities planned for the 2015 reporting period include the following:

1. Public education:
   a. Storm water article published in the local newspaper.
   b. Storm water article published on the City website.
   c. Storm water public service announcement broadcast on City's cable TV channel.
   d. Public education events, such as "Environmental Open House".
   e. Direct mail or hand delivered brochure as needed.
2. City staff education: provide training materials related to City job functions as they relate to storm water.
3. Storm water monitoring: at least 4 samples during the required monitoring season.
4. Storm water system maintenance: inspect and clean catch basins.
5. Screen outfalls for dry weather flows.
6. Assess the adequacy of BMPs.
7. Complete the 2015 annual report.
8. Post on-line all annual reports and the storm water management plan.
9. Conduct pre-construction plan reviews, construction site inspections and enforcement as needed.

APPENDIX G: SCHEDULE OF PLANNED BMPs NEEDED TO COMPLY WITH WATER QUALITY STANDARDS

The City conducts routine street sweeping and maintenance of storm drains every year. Street and storm drain maintenance is conducted from February through September. In 2014, approximately 1,918 cubic yards of debris and grit were removed from City streets and over 100 catch basins were cleaned and inspected. As demonstrated by the monitoring data in Appendix C, the Post Falls MS4 does not cause violations of Idaho in-stream water quality standards for the Spokane River. Therefore no additional BMPs are needed for the Post Falls MS4.

In 2013, the City investigated the potential for eliminating all discharge from the MS4 system by increasing the use of bio-filtration swales and other improvements in the drainage areas served by the two MS4 outfalls. The study (see 2013 Report, Appendix H) concluded that it would be possible to eliminate all discharge from the MS4 outfalls, but at considerable expense. However, where feasible and as part of re-development activities, expansion of the biofiltration system will continue with the effect of incrementally reducing discharge to the MS4.

APPENDIX H: COPIES OF PERMIT RELATED PRODUCTS

- Staff Training Logs
- Construction Site Inspection Reports
- Sweeping Records
- Letter to MS4 Property Owners
- Monitoring Results

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2014

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Building

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: [signature] Date: 12/23/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Harmony Carley-Oaks	1, 5
Rob Strobel	1-6
Justin Miller	1-6

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Water Reclamation

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: [signature] Date: 12/24/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
See Attached List	

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

SURFACE WATER TRAINING VIDEO

NAME	VIDEO
Don Ellis	What we can Do
~~Don~~ Andrew Inman	What we Can Do
Adam Tate	Parks and Ground Maint.
Ryan Lawrence	Parks + Ground Maint, Streets Drain Maint
Bob Hatcher	what we can do
Carlos Betancourt	What we can do
TOM VALENZUELA	WHAT WE CAN DO
Bryan Petersen	Solid Waste Managment
Mark Bailey	INTRO - What Can we do

Supervisor: Please return completed form to Water Reclamation Facility or email to mneher@postfallsidaho.org
Deadline: November 1, 2013

SURFACE WATER MANAGEMENT PROGRAM
2013 EMPLOYEE TRAINING RECORD

Department/Division: Water

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: [signature] Date: 12-24-14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Bruce Pagano	#4
Bob Danner	#6
Matt Isch	#5
Chad Worley	#2
Carol Daniels	#1 Const #2
Bill Viney/GSD	#5

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to mneher@postfallsidaho.org
Deadline: November 1, 2013

SURFACE WATER MANAGEMENT PROGRAM
2013 EMPLOYEE TRAINING RECORD

Department/Division: PARKS & CEMETERY

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: _____ Date: 12-17-14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Kevin Palmer	2
Robert P. Hill	
Anthony Brandt	All
	"
	"
	"
	2

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Traffic Division

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: [signature] Date: 12/16/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Don Peterson	4
Clint Breen	4
Ben Payton	4
Bruce Westerburg	4

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
(4)	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Street

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: Steve Tate Date: 12/15/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Steve Tate	2#
John Bowman	#2
Keith S Hardy	#2
Doug Ford	#2
R. [illegible]	#2
[illegible]	#2
John Doughty	#2
[illegible]	#2

Chapter #	Chapter Title
1	Introduction: What We Can Do
(2)	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Fleet

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: Dan Stark Date: 12-15-14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
David Hawkes	1 and 2
Tim DeWitt	1 & 2

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Public Works

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: _____ Date: 12/15/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Jim Porter	2 & 4

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Building Maintenance

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: Rick Steele Date: 12-16-14

Employee Name		List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Tommy Lynn	#4	Streets
[illegible]	#4	Streets + Range Maintenance
[illegible]	#4	11
[illegible]	#4	11
Rick Steele	#4	11

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Engineering Division

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: J. F. [illegible] Date: 12-18-14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Robert S. Palus	2
Darrin Hibbs	2
FAYE Griffiths	2
Bill Melvin	2

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013/14

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Planning Division

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: Shelly Enbody Date: 12-17-14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Kelley Setters	1, 2, 4, 5, 6
Jon Manley	6

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

Supervisor: Please return completed form to Water Reclamation Facility or email to jbeacham@postfallsidaho.org
Deadline: December 26, 2013

SURFACE WATER MANAGEMENT PROGRAM
2014 EMPLOYEE TRAINING RECORD

Department/Division: Water Reclamation & Water Department

"I certify that the following employees have completed the training chapters indicated below."

Supervisor's Signature: _____ Date: 12/23/14

Employee Name	List the chapters you completed (write the chapter number(s) - see list at bottom of page)
Naomi Tierney	2.

Chapter #	Chapter Title
1	Introduction: What We Can Do
2	Construction Activities and Land Disturbances
3	Fleet Maintenance and Material Handling
4	Streets and Drainage Maintenance
5	Parks and Grounds Maintenance
6	Solid Waste management

PROJECT NAME Spokane St. ~~Improvements~~ City Center revitalization

STORMWATER INSPECTION REPORT

THIS REPORT IS INTENDED TO FULFILL THE REQUIREMENTS OF SECTION II.B.4.G OF NPDES PERMIT IDS-028213 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTILITY WITHIN THE POST FALLS MS4 SYSTEM.

Inspection Schedule	
Inspection Date/Time	9/29/14 10:00 Am
Type of Inspection	☒ Regularly Scheduled Inspection ☐ Pre-forecasted Storm Event ☐ During Storm Event ☐ Post Storm Event
Inspector Information	
Name	Adam Tate / Darren Hibbs
Title	Surface water Tech / Sr. Eng. Tech
Phone Number	773-1438

Describe present phase of construction:

Reporting Sidewalk

To the inspector's knowledge, has there been a storm since the last inspection?	☐ Yes ☒ No

Rainfall for Post Falls is tracked that the Water Reclamation Facility.

Weather Information During Inspection

Precipitation? ☐ Yes ☒ No Type:

Is there evidence of sediment discharge from the site since the last inspection?	☐ Yes ☒ No

If Yes, describe

Are sediment discharges at the time of inspection observed?	☐ Yes ☒ No

If Yes, describe

Page 2 Stormwater Inspection Report
Project Name:

Observed Locations of Non-Compliance with SWPPP

Location	Type of Control	Corrective Action/Maintenance Needed

Describe any non-compliance not described above:

Storm Water Pollutions Prevention Plan (SWPPP)

Are there observed conditions which require changes to the SWPPP? ☐ Yes ☒ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Are there observed conditions which require changes to the Site Map? ☐ Yes ☒ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Page 3 Stormwater Inspection Report **Project Name:**
Compliance with SWPPP (check one)
☒ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan and no updates/changes to the SWPPP are necessary at this time.
☐ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan; however, updates/changes to the SWPPP are necessary at this time to document modifications that were agreed upon in the field.
☐ This inspection found areas of the site that require maintenance and/or other action. Corrective action will be taken within _____ days.
Signature Signature _____ Date: 9/29/14

Page _____ Stormwater Inspection Report
Project Name:
Observed Locations of Non-Compliance with SWPPP: Additional Sheet

Location	Type of Control	Corrective Action/Maintenance Needed

PROJECT NAME Spokane St. Improvements

STORMWATER INSPECTION REPORT

THIS REPORT IS INTENDED TO FULFILL THE REQUIREMENTS OF SECTION II.B.4.G OF NPDES PERMIT IDS-028213 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTILITY WITHIN THE POST FALLS MS4 SYSTEM.

Inspection Schedule	
Inspection Date/Time	10/15/14 1:00 PM
Type of Inspection	☐ Regularly Scheduled Inspection ☐ Pre-forecasted Storm Event ☒ During Storm Event ☐ Post Storm Event
Inspector Information	
Name	Adam Tate
Title	Surface water Tech
Phone Number	773-1438
Describe present phase of construction:	
Pouring Sidewalks and Prepping for Asfalt	
To the inspector's knowledge, has there been a storm since the last inspection?	☒ Yes ☐ No
Rainfall for Post Falls is tracked that the Water Reclamation Facility.	
Weather Information During Inspection	
Precipitation? ☒ Yes ☐ No Type: Rain	
Is there evidence of sediment discharge from the site since the last inspection?	☐ Yes ☒ No
If Yes, describe	
Are sediment discharges at the time of inspection observed?	☐ Yes ☒ No
If Yes, describe	

Page 2 Stormwater Inspection Report
Project Name:

Observed Locations of Non-Compliance with SWPPP

Location	Type of Control	Corrective Action/Maintenance Needed

Describe any non-compliance not described above:

Storm Water Pollutions Prevention Plan (SWPPP)

Are there observed conditions which require changes to the SWPPP? ☐ Yes ☐ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Are there observed conditions which require changes to the Site Map? ☐ Yes ☐ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Page 3 Stormwater Inspection Report
Project Name:

Compliance with SWPPP (check one)

☒ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan and no updates/changes to the SWPPP are necessary at this time.

☐ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan; however, updates/changes to the SWPPP are necessary at this time to document modifications that were agreed upon in the field.

☐ This inspection found areas of the site that require maintenance and/or other action. Corrective action will be taken within _____ days.

Signature

Signature _____ Date: 10/15/14

PROJECT NAME ~~Spokane~~ (Spokane St.) Revital. City Center

STORMWATER INSPECTION REPORT

THIS REPORT IS INTENDED TO FULFILL THE REQUIREMENTS OF SECTION II.B.4.G OF NPDES PERMIT IDS-028213 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTILITY WITHIN THE POST FALLS MS4 SYSTEM.

Inspection Schedule	
Inspection Date/Time	11/3/14 - 10 am
Type of Inspection	☑ Regularly Scheduled Inspection ☐ Pre-forecasted Storm Event ☐ During Storm Event ☐ Post Storm Event
Inspector Information	
Name	Darrin Hibbs
Title	Sr. Engineering Tech
Phone Number	(208) 457-3330
Describe present phase of construction:	
Finishing up sidewalk and curb.	
To the inspector's knowledge, has there been a storm since the last inspection?	☐ Yes ☒ No
Rainfall for Post Falls is tracked that the Water Reclamation Facility.	
Weather Information During Inspection	
Precipitation? ☐ Yes ☒ No Type:	
Is there evidence of sediment discharge from the site since the last inspection?	☐ Yes ☒ No
If Yes, describe	
Are sediment discharges at the time of inspection observed?	☐ Yes ☒ No
If Yes, describe	

Page 2 Stormwater Inspection Report
Project Name:

Observed Locations of Non-Compliance with SWPPP

Location	Type of Control	Corrective Action/Maintenance Needed

Describe any non-compliance not described above:

Storm Water Pollutions Prevention Plan (SWPPP)

Are there observed conditions which require changes to the SWPPP? ☐ Yes ☒ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Are there observed conditions which require changes to the Site Map? ☐ Yes ☑ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Page 3 Stormwater Inspection Report
Project Name:

Compliance with SWPPP (check one)

☒ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan and no updates/changes to the SWPPP are necessary at this time.

☐ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan; however, updates/changes to the SWPPP are necessary at this time to document modifications that were agreed upon in the field.

☐ This inspection found areas of the site that require maintenance and/or other action. Corrective action will be taken within _____ days.

Signature

Signature Dani Mh. Date: 11/3/14

PROJECT NAME (Spokane St.) Revital. City Center

STORMWATER INSPECTION REPORT

THIS REPORT IS INTENDED TO FULFILL THE REQUIREMENTS OF SECTION II.B.4.G OF NPDES PERMIT IDS-028213 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTILITY WITHIN THE POST FALLS MS4 SYSTEM.

Inspection Schedule	
Inspection Date/Time	12/15/14 – 2 pm
Type of Inspection	☒ Regularly Scheduled Inspection ☐ Pre-forecasted Storm Event ☐ During Storm Event ☐ Post Storm Event
Inspector Information	
Name	Darrin Hibbs
Title	Sr. Engineering Tech
Phone Number	457-3330
Describe present phase of construction:	
clean up and installing st. lights	
To the inspector's knowledge, has there been a storm since the last inspection?	☒ Yes ☐ No
Rainfall for Post Falls is tracked that the Water Reclamation Facility.	
Weather Information During Inspection	
Precipitation? ☐ Yes ☒ No Type:	
Is there evidence of sediment discharge from the site since the last inspection?	☐ Yes ☒ No
If Yes, describe	
Are sediment discharges at the time of inspection observed?	☐ Yes ☒ No
If Yes, describe	

Page 2 Stormwater Inspection Report
Project Name:

Observed Locations of Non-Compliance with SWPPP

Location	Type of Control	Corrective Action/Maintenance Needed

Describe any non-compliance not described above:

Storm Water Pollutions Prevention Plan (SWPPP)

Are there observed conditions which require changes to the SWPPP? ☐ Yes ☒ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Are there observed conditions which require changes to the Site Map? ☐ Yes ☑ No If yes, describe:

Deadline for change (must be within 7 calendar days of inspection):

Page 3 Stormwater Inspection Report **Project Name:**
Compliance with SWPPP (check one)
☑ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan and no updates/changes to the SWPPP are necessary at this time.
☐ Based on this inspection, this site is in compliance with the Stormwater Pollution Prevention Plan; however, updates/changes to the SWPPP are necessary at this time to document modifications that were agreed upon in the field.
☐ This inspection found areas of the site that require maintenance and/or other action. Corrective action will be taken within _____ days.
Signature Signature Dennis M. Smith Date: 12/17/14

2014	Number of Loads						
	553	554	553	554	553	554	
Day	Sand/Silt	Sand/Silt	Gravel/Chips	Gravel/Chips	Light Debris	Light Debris	Total of all loads
October	0	6	0	0	0	40	46
November	3	5	0	0	15	0	23
December	0	0	0	0	0	0	0
January	13	18	0	5	3	7	46
February	4	0	0	0	0	0	4
March	14	36.5	0	0	8	1	59.5
April	14	15	0	5	0	0	34
May	2	48.5	0	0	0	0	50.5
June	35.5	4	1	0	0	0	40.5
July	48	7	7	2	0	0	64
August	27.5	9	9.5	0	0	0	46
September	46	20	0	0	0	0	66
Yearyl Totals	207	169	17.5	12	26	48	479.5

Yards of Debris	828	676	70	48	104	192	**1918**

CITY OF
POST FALLS

Public Services Department
Water Reclamation Division

September 2014

"[Click here and type recipient's address]"

The following information is provided as part of the City's annual public information program regarding storm water pollution prevention. This is for your information only and you do not need to reply. You are receiving this letter because our records indicate you have or use property served by the portion of the City's storm sewer system which sends stormwater to the Spokane River.

As stormwater flows over driveways, lawns and sidewalks, it picks up debris, chemicals, dirt and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland or coastal water. Anything that enters the storm sewer system is discharged untreated into the river we use for swimming, fishing and providing drinking water. Polluted runoff is one of the nation's greatest threat to clean water.

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings and automotive fluids off the ground and out of stormwater.

Healthy Household Habits for Clean Water

Vehicle and Garage

- Use a commercial car wash or wash your car on a lawn or other vegetated surface to minimize the amount of dirty, soapy water flowing into the storm drain and eventually into local water sources.
- Check your car, boat, motorcycle and other machinery and equipment for leaks and spills. Make repairs as soon as possible. Clean up spilled fluids with an absorbent material like kitty litter or sand, which can then be disposed with the household trash. Don't rinse spills into the storm drains.
- Recycle used oil and other automotive fluids at participating service stations or auto parts stores. Don't dump these chemicals down sewer or storm drains.

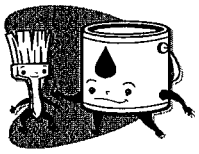
Lawn and Garden

- Use pesticides and fertilizers sparingly and in the recommended amounts. Avoid application if the forecast calls for rain; otherwise, chemicals could be washed into local water sources.
- Select native plants and grasses that are drought and pest resistant. Native plants require less water, fertilizer and pesticides.
- Sweep up yard debris rather than hosing down areas. Compost or recycle yard waste when possible.
- Do not overwater your lawn. Water during the cool times of the day and do not let water runoff into the storm drain.
- Cover piles of dirt and mulch being used in landscaping projects to prevent these pollutants from blowing or washing off your yard and into local water sources. Plant vegetation in the bare spots in your yard to prevent soil erosion.

2002 West Seltice Way, Post Falls, ID 83854 • *tel* (208)773-1438 • *fax* (208)262-7349 • www.postfallsidaho.org

Home Repair and Improvement

- Before beginning an outdoor project, locate the nearest storm drains and protect them from debris and other materials.
- Sweep up and properly dispose of construction debris such as concrete and mortar.
- Use hazardous substances like paints, solvents and cleaners in the smallest amounts possible and follow the directions on the label. Clean up spills immediately and dispose of the water safely. Store substances properly to avoid leaks and spills.
- Purchase and use nontoxic, biodegradable, recycled, and recyclable products whenever possible.
- Clean paint brushes in a sink, not outdoors. Filter and reuse paint thinner when using oil based paints. Properly dispose of excess paints through a household hazardous waste collection program, or donate unused paint to local organizations.

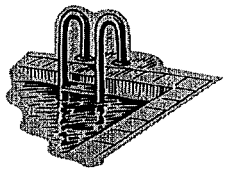


- Reduce the amount of paved area and increase the amount of vegetated area in your yard. Use native plants in your landscaping to reduce the need for watering during dry periods. Consider directing downspouts away from paved surfaces onto lawns and other measures to increase infiltration and reduce polluted runoff.
- Paints and household hazardous wastes may be disposed of at the Kootenai County Transfer Station located at 15580 W. Prairie Avenue, Post Falls, ID. Kootenai County Solid Waste Department may be contacted at 208-446-1430 or found online @ www.kcgov.us/departments/solidwaste.

Pet Care

- When walking your pet, remember to pick up the waste and dispose of it properly. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local water bodies.

Swimming Pool and Spa



- Drain your swimming pool only when a test kit does not detect chlorine levels.
- If possible, pools should be drained to lawns and landscape areas at a slow rate to allow water to soak into the ground. Do not discharge to sewer.
- Properly store pool and spa chemicals to prevent leaks and spills, preferable in a covered area to avoid exposure to stormwater.

Storm drains connect to water bodies!

For more information visit www.epa.gov/npdes/stormwater or www.epa.gov/nps.

Thank you for your time to review the above information. If you would like to report a spill or obtain more information about the City of Post Falls surface water protection program, please contact the Water Reclamation Facility at 208-777-1438 or visit the City of Post Falls website at www.postfallsidaho.org.

CITY OF POST FALLS STORM WATER PROGRAM
MS4 PERMIT #IDS-028231
FIELD SAMPLE LOG

SAMPLE DATE: 3/8/14

SAMPLER: (*Signature*) Bryan Pitt

SAMPLE COLLECTION INFORMATION:

	CENTENNIAL TRAIL	FOURTH AVENUE
Type of Sample	Grab	Grab
Time of Sample Collection (hhmm)	7:35pm	7:41pm
Preservative Added (Yes/No)	Yes	Yes
Samples Transported on Ice (Yes/No)	Yes	Yes
Water Temp. (°F)	41°	41°
Depth of Flow (inches)	3"	5"
Appearance of Flow (color, oil, odor, trash, turbid, sediment, etc.)	oil odor murky	asphalt odor murky
Other Remarks		

Instructions to Laboratory

Parameters to be tested for these samples are:

PARAMETER	PQL	METHOD
Total Suspended Solids	1 mg/L	SM2540D
Total Phosphorus	0.06 mg/L	EPA 365.3
Total Lead	0.02 mg/L	SM3210
Total Nitrogen	0.05 mg/L	SM4500/4110
Total Zinc	0.013 mg/L	SM3210
Hardness	0.2 mg/L	SM2340B
Total Polychlorinated Biphenyls	0.1 mg/L	SM8082

Chain of Custody

Accurate Testing Labs

7950 Meadowlark Way / Coeur d'Alene 83815 / Phone: (208) 762-8378 / Fax: (208) 762-9082
E-mail: Mueller@accuratetesting.com / Internet: http://www.accurate testing.com

Results & Invoice to:

Name: City of Post Falls – WWTP – Storm Water
Address: 2002 W. Seltice Way
Post Falls, ID 83854
Phone: (208) 773- 1438 Fax: (208) 773-0311

E-mail: dickf@postfallsidaho.org

Project Information:

Project Name: Storm Water Monitoring
Project Number:
Credit Card: ☐ Visa ☐ MC #

Reporting Requirements:

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

Name of Sampler: Bryan Peterson

Lab #	Sample ID	Date	Time	Matrix	Analysis Request: NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium	Remarks/Sample Conditions
	Centennial Trail Outfall	3/8/14	7:35 PM	water	4	X	X	X	X	X	X	X	X	Cadmium – .003 µg/L
	Fourth Avenue Outfall	3/8/14	7:41 PM	water	4	X	X	X	X	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
	3/10/14	7:58		3-10-14	7:58

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☐ UPS ☐ FedEx
☐ Bus ☐ 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.: **2014030097**

City of Post Falls Treatment
2002 W. Seltice Way
Post Falls , ID 83854

Project: Storm Water Monitoring

Date Received: 03/10/2014 07:58

Sample: 1
Location: Centennial Trail Outfall
Sample Type: Grabs

Matrix: Non-Potable Water
D/T Collected: 03/08/2014 19:35
Collected by: Bryan Peterson

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.8	03/17/14	ANA
Cadmium	0.460	ug/L	SM 3120	0.003	03/11/14	WM
Calcium	10.0	mg/L	EPA 200.7	0.17	03/14/14	WM
Hardness, Total (as CaCO3)	66.2	mg/L	SM 2340	0.2	03/14/14	WM
Lead	30.6	ug/L	SM 3120	0.03	03/11/14	WM
Magnesium	10.0	mg/L	EPA 200.7	0.03	03/14/14	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	03/11/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	03/11/14	WM
Phosphorus, Total	0.300	mg/L	EPA 365.1	0.007	03/13/14	WM
Total Kjeldahl Nitrogen (N)	1.32	mg/L	SM 4500NORG B	0.09	03/14/14	WM
Total Nitrogen (N)	1.32	mg/L	SM 4500N	0.04	03/14/14	WM
Total Suspended Solids	282	mg/L	SM 2540	1	03/13/14	AH
Zinc	384	ug/L	SM 3120	0.03	03/11/14	WM

Comments:

Walter Mueller

Laboratory Supervisor, Walter Mueller Date: 03/24/14

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Certificate of Analysis

Order No.: **2014030097**

Sample:	2	Matrix:	Non-Potable Water
Location:	Fourth Avenue Outfall	D/T Collected:	03/08/2014 19:41
Sample Type:	Grabs	Collected by:	Bryan Peterson

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	03/17/14	ANA
Cadmium	0.275	ug/L	SM 3120	0.003	03/11/14	WM
Calcium	9.46	mg/L	EPA 200.7	0.17	03/14/14	WM
Hardness, Total (as CaCO3)	60.1	mg/L	SM 2340	0.2	03/14/14	WM
Lead	9.48	ug/L	SM 3120	0.03	03/11/14	WM
Magnesium	8.85	mg/L	EPA 200.7	0.03	03/14/14	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	03/11/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	03/11/14	WM
Phosphorus, Total	0.208	mg/L	EPA 365.1	0.007	03/13/14	WM
Total Kjeldahl Nitrogen (N)	0.973	mg/L	SM 4500NORG B	0.09	03/14/14	WM
Total Nitrogen (N)	0.973	mg/L	SM 4500N	0.04	03/14/14	WM
Total Suspended Solids	143	mg/L	SM 2540	1	03/13/14	AH
Zinc	167	ug/L	SM 3120	0.03	03/11/14	WM

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:

Walter Mueller

Laboratory Supervisor, Walter Mueller Date: 03/24/14

CITY OF POST FALLS STORM WATER PROGRAM
MS4 PERMIT #IDS-028231
FIELD SAMPLE LOG

SAMPLE DATE: 5/14/14

SAMPLER: (*Signature*) [signature] #607

SAMPLE COLLECTION INFORMATION:

	CENTENNIAL TRAIL	FOURTH AVENUE
Type of Sample	Grab	Grab
Time of Sample Collection (hhmm)	9:50 PM	9:33 PM
Preservative Added (Yes/No)	Yes	Yes
Samples Transported on Ice (Yes/No)	Yes	Yes
Water Temp. (°F)	52°	55°
Depth of Flow (inches)	1"	2"
Appearance of Flow (color, oil, odor, trash, turbid, sediment, etc.)	light gray	brown
Other Remarks		

Instructions to Laboratory

Parameters to be tested for these samples are:

PARAMETER	PQL	METHOD
Total Suspended Solids	1 mg/L	SM2540D
Total Phosphorus	0.06 mg/L	EPA 365.3
Total Lead	0.02 mg/L	SM3210
Total Nitrogen	0.05 mg/L	SM4500/4110
Total Zinc	0.013 mg/L	SM3210
Hardness	0.2 mg/L	SM2340B
Total Polychlorinated Biphenyls	0.1 mg/L	SM8082

Chain of Custody

ccurate Testing Labs

7950 Meadowlark Way / Coeur d'Alene 83815 / Phone: (208) 762-8378 / Fax: (208) 762-9082
E-mail: Mueller@accuratetesting.com / Internet: http://www.accurate testing.com

lts & Invoice to:

e: City of Post Falls – WWTP – Storm Water
ess: 2002 W. Seltice Way
Post Falls, ID 83854
e: (208) 773- 1438 Fax: (208) 773-0311

il: dickf@postfallsidaho.org

ject Information:

ect Name: Storm Water Monitoring
ect Number:
lit Card: ☐ Visa ☐ MC #

Reporting Requirements:

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

Analysis Request

#	Sample ID	Date	Time	Matrix	NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium
	Centennial Trail Outfall	5/4/14	9:50 Pm	water	4	X	X	X	X	X	X	X	X
	Fourth Avenue Outfall	5/4/14	9:33 Pm	water	4	X	X	X	X	X	X	X	X

Name of Sampler:

Adam Tate

Remarks/Sample Conditions

Cadmium – .003 µg/L

linquished by:	Date	Time	Received by:	Date	Time
	5/5/14	8:20		5-5-14	8:20

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☐ UPS ☐ FedEx
☐ Bus ☐ Hand

Accurate Testing Labs

Chain of Custody

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Results & Invoice to:

Name: City of Post Falls – WWTP – Storm Water
Address: 2002 W. Seltice Way
Post Falls, ID 83854
Phone: (208) 773- 1438 Fax: (208) 773-0311

E-mail: dickf@postfallsidaho.org

Project Information:

Project Name: Storm Water Monitoring
Project Number:
Credit Card: ☐ Visa ☐ MC #

Reporting Requirements:

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

Name of Sampler: Adam Tate

Lab #	Sample ID	Date	Time	Matrix	NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium	Remarks/Sample Conditions
35003 1-1	Centennial Trail Outfall	5/4/14	9:50 Pm	water	4	X	X	X	X	X	X	X	X	Cadmium – .003 µg/L (LOW)
1 - 2	Fourth Avenue Outfall	5/4/14	9:33 Pm	water	4	X	X	X	X	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
	5/6/14	8:20		5-5-14	8:20

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☑ UPS ☐ FedEx
☐ Bus ☑ Hand

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

Certificate of Analysis

Order No.: **2014050031**

Sample:	2	Matrix:	Non-Potable Water
Location:	Fourth Avenue Outfall	D/T Collected:	05/04/2014 21:35
Sample Type:	Grabs	Collected by:	Adam Tate

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Cadmium	0.313	ug/L	SM 3120	0.003	05/06/14	WM
Calcium	10.2	mg/L	EPA 200.7	0.17	05/08/14	WM
Hardness, Total (as CaCO3)	40.7	mg/L	SM 2340	0.2	05/08/14	WM
Lead	19	ug/L	SM 3120	10.0	05/07/14	WM
Magnesium	3.68	mg/L	EPA 200.7	0.03	05/08/14	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	05/06/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	05/06/14	WM
Phosphorus, Total	0.267	mg/L	EPA 365.1	0.007	05/08/14	WM
Total Kjeldahl Nitrogen (N)	2.46	mg/L	SM 4500NORG B	0.09	05/09/14	AC
Total Nitrogen (N)	2.46	mg/L	Calculation	0.04	05/09/14	WM
Total Suspended Solids	145	mg/L	SM 2540	1	05/08/14	AH
Zinc	240	ug/L	SM 3120	10.0	05/07/14	WM

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, Walter Mueller Date: 05/19/14

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www.accuratetesting.com
info@accuratetesting.com

Certificate of Analysis

Order No.: **2014050031**

City of Post Falls Treatment
2002 W. Seltice Way
Post Falls , ID 83854

Project: Storm Water Monitoring

Date Received: 05/05/2014 08:20

Sample: 1
Location: Centennial Trail Outfall
Sample Type: Grabs

Matrix: Non-Potable Water
D/T Collected: 05/04/2014 21:50
Collected by: Adam Tate

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	05/13/14	ANA
Cadmium	0.266	ug/L	SM 3120	0.003	05/06/14	WM
Calcium	11.1	mg/L	EPA 200.7	0.17	05/08/14	WM
Hardness, Total (as CaCO3)	42.6	mg/L	SM 2340	0.2	05/08/14	WM
Lead	14	ug/L	SM 3120	10.0	05/07/14	WM
Magnesium	3.59	mg/L	EPA 200.7	0.03	05/08/14	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	05/06/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	05/06/14	WM
Phosphorus, Total	0.180	mg/L	EPA 365.1	0.007	05/08/14	WM
Total Kjeldahl Nitrogen (N)	1.92	mg/L	SM 4500NORG B	0.09	05/09/14	AC
Total Nitrogen (N)	1.92	mg/L	Calculation	0.04	05/09/14	WM
Total Suspended Solids	88	mg/L	SM 2540	1	05/08/14	AH
Zinc	250	ug/L	SM 3120	10.0	05/07/14	WM

Comments:

Laboratory Supervisor, Walter Mueller Date: 05/19/14

CITY OF POST FALLS STORM WATER PROGRAM
MS4 PERMIT #IDS-028231
FIELD SAMPLE LOG

SAMPLE DATE: 7/22/14

SAMPLER: (*Signature*) [signature]

SAMPLE COLLECTION INFORMATION:

	CENTENNIAL TRAIL	FOURTH AVENUE
Type of Sample	Grab	Grab
Time of Sample Collection (hhmm)	9:00Am	9:10Am
Preservative Added (Yes/No)	Yes	Yes
Samples Transported on Ice (Yes/No)	Yes	Yes
Water Temp. (°F)	56°	68°
Depth of Flow (inches)	1"	2½"
Appearance of Flow (color, oil, odor, trash, turbid, sediment, etc.)	grayish color Asphalt odor	grayish color oil smell musty smell
Other Remarks		

Instructions to Laboratory

Parameters to be tested for these samples are:

PARAMETER	PQL	METHOD
Total Suspended Solids	1 mg/L	SM2540D
Total Phosphorus	0.06 mg/L	EPA 365.3
Total Lead	0.02 mg/L	SM3210
Total Nitrogen	0.05 mg/L	SM4500/4110
Total Zinc	0.013 mg/L	SM3210
Hardness	0.2 mg/L	SM2340B
Total Polychlorinated Biphenyls	0.1 mg/L	SM8082

Chain of Custody

Accurate Testing Labs

7950 Meadowlark Way / Coeur d'Alene 83815 / Phone: (208) 762-8378 / Fax: (208) 762-9082
E-mail: Mueller@accuratetesting.com / Internet: http://www.accurate testing.com

Results & Invoice to:

Name: City of Post Falls – WWTP – Storm Water
Address: 2002 W. Seltice Way
Post Falls, ID 83854
Phone: (208) 773- 1438 Fax: (208) 773-0311

E-mail: dickf@postfallsidaho.org

Reporting Requirements:

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

Project Information:

Project Name: Storm Water Monitoring
Project Number: _____
Credit Card: ☐ Visa ☐ MC # _____

Name of Sampler: Bryan Petersen

Lab #	Sample ID	Date	Time	Matrix	NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium	Remarks/Sample Conditions
	Centennial Trail Outfall	7-22-14	9:00Am	water	4	X	X	X	X	X	X	X	X	Cadmium – .003 µg/L
	Fourth Avenue Outfall	7/22/14	9:10Am	water	4	X	X	X	X	X	X	X	X	

Analysis Request

Relinquished by:	Date	Time	Received by:	Date	Time
Bryan Petersen	7-22-14	9:40		7-22-14	9:40

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☐ UPS ☐ FedEx
☐ Bus ☐ Hand

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Certificate of Analysis

Order No.: **2014070380**

City of Post Falls Treatment
2002 W. Seltice Way
Post Falls , ID 83854

Project: Storm Water Monitoring

Date Received: 07/22/2014 09:40

Sample: 1
Location: Centennial Trail
Sample Type: Grabs

Matrix: Non-Potable Water
D/T Collected: 07/22/2014 09:00
Collected by: Bryan Peterson

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Cadmium	0.579	ug/L	SM 3120B	0.003	07/25/14	WM
Calcium	35.9	mg/L	EPA 200.7	0.17	07/24/14	WM
Hardness, Total (as CaCO3)	129	mg/L	SM 2340	0.2	07/24/14	WM
Lead	9.57	ug/L	SM 3120B	0.03	07/25/14	WM
Magnesium	9.51	mg/L	EPA 200.7	0.03	07/24/14	WM
Nitrate-N	2.08	mg/L	SM 4110B	0.5	07/22/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	07/22/14	WM
Phosphorus, Total	0.496	mg/L	EPA 365.1	0.007	07/24/14	WM
Total Kjeldahl Nitrogen (N)	7.74	mg/L	SM 4500NORG B	0.09	07/25/14	AC
Total Nitrogen (NO2+NO3+TKN as N)	9.82	mg/L	Calculation	0.04	07/25/14	WM
Total Suspended Solids	107	mg/L	SM 2540D	1	07/24/14	AH
Zinc	824	ug/L	SM 3120B	0.03	07/25/14	WM

Comments:

Laboratory Supervisor, Walter Mueller Date: 07/31/14

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Certificate of Analysis

Order No.: **2014070380**

Sample:	2	Matrix:	Non-Potable Water
Location:	Fourth Avenue Outfall	D/T Collected:	07/22/2014 09:10
Sample Type:	Grabs	Collected by:	Bryan Peterson

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	07/31/14	ANA
Cadmium	0.346	ug/L	SM 3120B	0.003	07/25/14	WM
Calcium	24.5	mg/L	EPA 200.7	0.17	07/24/14	WM
Hardness, Total (as CaCO3)	93.1	mg/L	SM 2340	0.2	07/24/14	WM
Lead	9.93	ug/L	SM 3120B	0.03	07/25/14	WM
Magnesium	7.74	mg/L	EPA 200.7	0.03	07/24/14	WM
Nitrate-N	1.09	mg/L	SM 4110B	0.5	07/22/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	07/22/14	WM
Phosphorus, Total	0.453	mg/L	EPA 365.1	0.007	07/24/14	WM
Total Kjeldahl Nitrogen (N)	4.25	mg/L	SM 4500NORG B	0.09	07/25/14	AC
Total Nitrogen (NO2+NO3+TKN as N)	5.34	mg/L	Calculation	0.04	07/25/14	WM
Total Suspended Solids	133	mg/L	SM 2540D	1	07/24/14	AH
Zinc	329	ug/L	SM 3120B	0.03	07/25/14	WM

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:

Walter Mueller

Laboratory Supervisor, Walter Mueller Date: 07/31/14

CITY OF POST FALLS STORM WATER PROGRAM
MS4 PERMIT #IDS-028231
FIELD SAMPLE LOG

SAMPLE DATE: 9/3/14

SAMPLER: (*Signature*) _____

SAMPLE COLLECTION INFORMATION:

	CENTENNIAL TRAIL	FOURTH AVENUE
Type of Sample	Grab	Grab
Time of Sample Collection (hhmm)	9:12 Am	9:23 Am
Preservative Added (Yes/No)	Yes	Yes
Samples Transported on Ice (Yes/No)	Yes	Yes
Water Temp. (°F)	55°	62°
Depth of Flow (inches)	1/2"	2"
Appearance of Flow (color, oil, odor, trash, turbid, sediment, etc.)	Gray/brown color	light brown
Other Remarks		

Instructions to Laboratory

Parameters to be tested for these samples are:

PARAMETER	PQL	METHOD
Total Suspended Solids	1 mg/L	SM2540D
Total Phosphorus	0.06 mg/L	EPA 365.3
Total Lead	0.02 mg/L	SM3210
Total Nitrogen	0.05 mg/L	SM4500/4110
Total Zinc	0.013 mg/L	SM3210
Hardness	0.2 mg/L	SM2340B
Total Polychlorinated Biphenyls	0.1 mg/L	SM8082

Chain of Custody

Accurate Testing Labs

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Results & Invoice to:

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Address: 2002 W. Seltice Way
Post Falls, ID 83854
Phone: (208) 773- 1438 Fax: (208) 773-0311

E-mail: dickf@postfallsidaho.org

Project Information:

Project Name: Storm Water Monitoring
Project Number: _____
Credit Card: ☐ Visa ☐ MC # _____

Reporting Requirements:

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

Name of Sampler: Adam Tate

Lab #	Sample ID	Date	Time	Matrix	Analysis Request: NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium	Remarks/Sample Conditions
	Centennial Trail Outfall	9/3/14	9:12 AM	water	4	X	X	X	X	X	X	X	X	Cadmium – .003 µg/L
	Fourth Avenue Outfall	9/3/14	9:23 AM	water	4	X	X	X	X	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
	9/3/14	9:52		9-3-14	9:52

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☐ UPS ☐ FedEx
☐ Bus ☒ Hand

Chain of Custody

Accurate Testing Labs

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Name: City of Post Falls – WWTP – Storm Water
Address: 2002 W. Seltice Way
Post Falls, ID 83854
Phone: (208) 773-1438 Fax: (208) 773-0311

E-mail: dickf@postfallsidaho.org

Reporting Requirements:

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

Project Information:

Project Name: Storm Water Monitoring
Project Number: _____
Credit Card: ☐ Visa ☐ MC #_____

Name of Sampler: Adam Tate

Lab #	Sample ID	Date	Time	Matrix	Analysis Request: NO. of containers	Total Suspended Solids	Total Phosphorus	Total Lead	Total Nitrogen	Total Zinc	Hardness	Total Polychlorinated Biphenyls	Cadmium	Remarks/Sample Conditions
90053-1	Centennial Trail Outfall	9/3/14	9:12 AM	water	4	X	X	X	X	X	X	X	X	Cadmium – .003 µ g/L
1-2	Fourth Avenue Outfall	9/3/14	9:23 AM	water	4	X	X	X	X	X	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time
	9/3/14	9:52		9-3-14	9:52

Chain of Custody Seals
☐ Yes ☐ No ☐ N/A
☐ UPS ☐ FedEx
☐ Bus ~~☐ Hand~~

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Certificate of Analysis

Order No.: **2014090053**

City of Post Falls Treatment
2002 W. Seltice Way
Post Falls , ID 83854

Project: Storm Water Monitoring

Date Received: 09/03/2014 09:52

Sample: 1
Location: Centennial Trail Outfall
Sample Type: Grabs

Matrix: Non-Potable Water
D/T Collected: 09/03/2014 09:12
Collected by: Adam Tate

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Cadmium	0.131	ug/L	SM 3120B	0.003	09/08/14	WM
Calcium	18.5	mg/L	EPA 200.7	0.17	09/04/14	WM
Hardness, Total (as CaCO3)	65.6	mg/L	SM 2340	0.2	09/04/14	WM
Lead	3.96	ug/L	SM 3120B	0.03	09/08/14	WM
Magnesium	4.71	mg/L	EPA 200.7	0.03	09/04/14	WM
Nitrate-N	0.99	mg/L	SM 4110B	0.5	09/03/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	09/03/14	WM
Phosphorus, Total	0.134	mg/L	EPA 365.1	0.007	09/04/14	WM
Total Kjeldahl Nitrogen (N)	1.32	mg/L	SM 4500NORG B	0.09	09/05/14	LR
Total Nitrogen (NO2+NO3+TKN as N)	2.31	mg/L	Calculation		09/05/14	WM
Total Suspended Solids	26	mg/L	SM 2540D	1	09/03/14	AC
Zinc	350	ug/L	SM 3120B	0.03	09/08/14	WM

Comments:

Laboratory Supervisor, Walter Mueller Date: 09/16/14

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Certificate of Analysis

Order No.: **2014090053**

Sample:	**2**	Matrix:	Non-Potable Water
Location:	Fourth Avenue Outfall	D/T Collected:	09/03/2014 09:23
Sample Type:	Grabs	Collected by:	Adam Tate

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.8	09/12/14	ANA
Cadmium	0.184	ug/L	SM 3120B	0.003	09/08/14	WM
Calcium	11.6	mg/L	EPA 200.7	0.17	09/04/14	WM
Hardness, Total (as CaCO3)	43.2	mg/L	SM 2340	0.2	09/04/14	WM
Lead	8.48	ug/L	SM 3120B	0.03	09/08/14	WM
Magnesium	3.47	mg/L	EPA 200.7	0.03	09/04/14	WM
Nitrate-N	0.55	mg/L	SM 4110B	0.5	09/03/14	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	09/03/14	WM
Phosphorus, Total	0.233	mg/L	EPA 365.1	0.007	09/04/14	WM
Total Kjeldahl Nitrogen (N)	1.85	mg/L	SM 4500NORG B	0.09	09/05/14	LR
Total Nitrogen (NO2+NO3+TKN as N)	2.40	mg/L	Calculation		09/05/14	WM
Total Suspended Solids	90	mg/L	SM 2540D	1	09/03/14	AC
Zinc	175	ug/L	SM 3120B	0.03	09/08/14	WM

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, Walter Mueller Date: 09/16/14