

APPENDIX J

Field Data Sheets for Sampled Storm Events

DSA 1/8/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Site: F. Horn - Bellingham

Maintenance and Pre-Storm Checklist

Time: 14:00 Date: 1-7-13 Field Staff: D. Bennett Weather: Dry - cloudy

Station Name: Inlet		Station Name: Outlet		Station Name: Bypass	
Time Correct?	✓ NA	Time Correct?	✓	Time Correct?	✓
Instrument Reading Before Calib. Leveling:	NA	Instrument Reading Before Calib. Leveling:	1.08"	Instrument Reading Before Calib. Leveling:	0.1
Instrument Reading After Calib. Leveling:	NA	Instrument Reading After Calib. Leveling:	1.03	Instrument Reading After Calib. Leveling:	0.1
Instrument Reading After Calib. Adjust:	NA	Instrument Reading After Calib. Adjust:		Instrument Reading After Calib. Adjust:	0.1
Flow Present:	Yes (No)	Flow Present:	Yes (No)	Flow Present:	Yes (No)
Flume Level Checked?	NA	Flume Level Checked?	0.09'	Flume Level Checked?	yes
Manual Level:	NA	Manual Level:	NA	Manual Level:	0.1
Data Downloaded?	NA	Data Downloaded?	NA	Data Downloaded?	NA
Volume Calibrated?	NA	Volume Calibrated?	NO	Volume Calibrated?	NO
Desiccant:	Good	Desiccant:	changed	Desiccant:	changed
Notes:	changed desiccant bags + bulbs.	Notes:		Notes:	

Pre-Storm Visit

Date/Time: 1-7-13 14:3 Field Staff: D. Bennett Weather: Dry - cloudy

Sample Box Cleaned?	✓	Sample Line Checked?	✓
Clean Bottle?	✓	Clean Bottle?	✓
Pacing Adjusted?	✓	Pacing Adjusted?	✓
Composite/Discrete Setup?	comp	Composite/Discrete Setup?	comp
Ice Added?	✓	Ice Added?	✓
Program Started?	✓	Program Started?	✓
Delay to Start?	yes	Delay to Start?	yes
Notes:	re-installed sample tubes after fluffing stream by F. Horn	Notes:	cleaned flume

Storm Visit

Date: Time: Notes:

Time:	Notes:	Manual Measurement (mL/s)
NO		1
		2
		3
		4
		5

Post-Storm Visit

Date/Time: 1-9-13 Field Staff: D. Bennett Weather: Dry - cloudy

Date/Time End:	1-9-13 10:42	Date/Time End:	1-7-13 10:42
# of Samples:	91	# of Samples:	91
Errors?	no	Errors?	no
Est. Sample Vol:	20 L	Est. Sample Vol:	20 L
Bottles Replaced?	✓	Bottles Replaced?	✓
Data Downloaded?	NA	Data Downloaded?	NA
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1
Duplicate Sample?	no	Duplicate Sample?	no
Instrument Reading Before Calib. Leveling:	NA	Instrument Reading Before Calib. Leveling:	0.1'
Instrument Reading After Calib. Leveling:	NA	Instrument Reading After Calib. Leveling:	0.1'
Instrument Reading After Calib. Adjust:	NA	Instrument Reading After Calib. Adjust:	0.1'
Flow Present:	Yes (No)	Flow Present:	Yes (No)
Notes:		Notes:	

Flow Data Validation

DSA 1/23/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 11:00 Date: 1-22-13 Field Staff: D. Bennett Weather: dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No
Pump Volume Calibrated?	<input checked="" type="radio"/> Yes	No	Manual Level:	0.13		Manual Level:	0.10'	
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes	No	Instrument Level Before Calibration:	0.03 0.03 0.03		Instrument Level Before Calibration:	0.10'	
Notes:			Instrument Level After Calibration:	0.13		Instrument Level After Calibration:	0.10'	

Pump Volume Calibrated? ☒ Yes No
 Box Desiccant Condition: good
 Flo-Tote Desiccant Condition: good
 Notes: no cal necessary

I measured again today.
 This time, behind grass whip.
 I think I underestimated last time by landing on grass whip.

Pre-Storm Visit

Date/Time: 1-22-13 Field Staff: 11:00 Weather: dry

Sample Tray Cleaned?	<input checked="" type="checkbox"/>	Sample Line Rinsed?	<input checked="" type="checkbox"/>	Flume Cleaned?	<input checked="" type="checkbox"/>
Sample Line Rinsed?	<input checked="" type="checkbox"/>	Clean Bottle?	<input checked="" type="checkbox"/>	Bubbler Secure?	<input checked="" type="checkbox"/>
Clean Bottle?	<input checked="" type="checkbox"/>	Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Notes:	
Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Ice Added?	<input checked="" type="checkbox"/>		
Ice Added?	<input checked="" type="checkbox"/>	Program Started?	<input checked="" type="checkbox"/>		
Program Started?	<input checked="" type="checkbox"/>	Notes:			

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 1-24-13 11:00 Field Staff: D. Bennett Weather: dry

Date/Time End:	1-23-13 17:23	Date/Time End:	1-23-13 17:23	Flow Present:	Yes <input checked="" type="radio"/> No
# of Samples:	91	# of Samples:	91	Notes:	
Errors?	0	Errors?	0		
Est. Sample Vol:	20.5L	Est. Sample Vol:	20.5L		
Bottles Replaced?	03 1	Bottles Replaced?	03 1		
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1		
Duplicate Sample?	N	Duplicate Sample?	N		
Flow Present:	Yes <input checked="" type="radio"/> No	Flow Present:	Yes <input checked="" type="radio"/> No		
Notes:		Notes:			

DSA 1/24/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 11:00 Date: 1-24-13 Field Staff: D. Bennett Weather: Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No
Pump Volume Calibrated?	<input checked="" type="radio"/> Yes	No	Manual Level:	0.13		Manual Level:	0.06	
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes	No	Instrument Level Before Calibration:	0.13		Instrument Level Before Calibration:	0.06	
Notes:			Instrument Level After Calibration:	0.13		Instrument Level After Calibration:	0.06	

Pump Volume Calibrated? ☒ Yes No
 Box Desiccant Condition: good
 Flo-Tote Desiccant Condition: good
 Notes: no cal needed

Pre-Storm Visit

Date/Time: 1-24-13 11:00 Field Staff: D. Bennett Weather: Dry

Sample Tray Cleaned?	<input checked="" type="checkbox"/>	Sample Line Rinsed?	<input checked="" type="checkbox"/>	Flume Cleaned?	<input checked="" type="checkbox"/>
Sample Line Rinsed?	<input checked="" type="checkbox"/>	Clean Bottle?	<input checked="" type="checkbox"/>	Bubbler Secure?	<input checked="" type="checkbox"/>
Clean Bottle?	<input checked="" type="checkbox"/>	Composite/Discrete Setup?	Com	Notes:	
Composite/Discrete Setup?	Com	Ice Added?	<input checked="" type="checkbox"/>		
Ice Added?	<input checked="" type="checkbox"/>	Program Started?	<input checked="" type="checkbox"/>		
Program Started?	<input checked="" type="checkbox"/>	Notes:			

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 1-25-13 11:00 Field Staff: D. Bennett Weather: Dry

Date/Time End:	1-24-13 22:10	Date/Time End:	1-24-13 22:10	Flow Present:	Yes	<input checked="" type="radio"/> No
# of Samples:	35	# of Samples:	35	Notes:		
Errors?	N	Errors?	N			
Est. Sample Vol:	7.5L	Est. Sample Vol:	7.5L			
Bottles Replaced?	<input checked="" type="checkbox"/>	Bottles Replaced?	<input checked="" type="checkbox"/>			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	<input checked="" type="checkbox"/>	Duplicate Sample?	<input checked="" type="checkbox"/>			
Flow Present:	Yes	Flow Present:	Yes	<input checked="" type="radio"/> No		
Notes:		Notes:				

DSA 1/26/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 11:00 Date: 1-25-13 Field Staff: D. Bennett Weather: Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes	No <input checked="" type="radio"/>	Flow Present:	Yes	No <input checked="" type="radio"/>	Flow Present:	Yes	No <input checked="" type="radio"/>
Pump Volume Calibrated?	<input checked="" type="radio"/>	No	Manual Level:	0.13		Manual Level:	0.6	
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/>	No	Instrument Level Before Calibration:	0.13		Instrument Level Before Calibration:	0.6	
Notes:	-		Instrument Level After Calibration:	0.13		Instrument Level After Calibration:	0.6	recal
			Pump Volume Calibrated?	<input checked="" type="radio"/>	No	Notes:	recal morning	
			Box Desiccant Condition:	good				
			Flo-Tote Desiccant Condition:	good				
			Notes:	-				

Pre-Storm Visit

Date/Time: 1-25-13 Field Staff: D. Bennett Weather: dry

Sample Tray Cleaned?	<input checked="" type="checkbox"/>	Sample Line Rinsed?	<input checked="" type="checkbox"/>	Flume Cleaned?	<input checked="" type="checkbox"/>
Sample Line Rinsed?	<input checked="" type="checkbox"/>	Clean Bottle?	<input checked="" type="checkbox"/>	Bubbler Secure?	<input checked="" type="checkbox"/>
Clean Bottle?	<input checked="" type="checkbox"/>	Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Notes:	-
Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Ice Added?	<input checked="" type="checkbox"/>		
Ice Added?	<input checked="" type="checkbox"/>	Program Started?	<input checked="" type="checkbox"/>		
Program Started?	<input checked="" type="checkbox"/>	Notes:	-		
Notes:	-				

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 1-27-13 11:00 Field Staff: D. Bennett Weather: dry

Date/Time End:	1-26-13 16:58	Date/Time End:	1-26-13 16:58	Flow Present:	Yes	No <input checked="" type="radio"/>
# of Samples:	64	# of Samples:	64	Notes:	-	
Errors?	N	Errors?	N			
Est. Sample Vol:	14L	Est. Sample Vol:	14L			
Bottles Replaced?	X	Bottles Replaced?	X			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	<input checked="" type="checkbox"/>	Duplicate Sample?	N			
Flow Present:	Yes	Flow Present:	Yes	No <input checked="" type="radio"/>		
Notes:	-	Notes:	-			

DSA 1/28/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 11:00 Date: 1-27-13 Field Staff: D. Grunth Weather: Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No
Pump Volume Calibrated?	Yes	<input checked="" type="radio"/> No	Manual Level:	0.13		Manual Level:		<input checked="" type="radio"/> No
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes	No	Instrument Level Before Calibration:	-		Instrument Level Before Calibration:		<input checked="" type="radio"/> No
Notes:	N		Instrument Level After Calibration:	-		Instrument Level After Calibration:		<input checked="" type="radio"/> No
			Pump Volume Calibrated?	Yes	<input checked="" type="radio"/> No	Notes:	-	
			Box Desiccant Condition:	Good				
			Flo-Tote Desiccant Condition:	Good				
			Notes:	N				

Pre-Storm Visit

Date/Time: 1-27-13 11:00 Field Staff: D. Grunth Weather: Dry

Sample Tray Cleaned?	<input checked="" type="radio"/> Y	Sample Line Rinsed?	<input checked="" type="radio"/> Y	Flume Cleaned?	<input checked="" type="radio"/> Y
Sample Line Rinsed?	<input checked="" type="radio"/> Y	Clean Bottle?	<input checked="" type="radio"/> Y	Bubbler Secure?	<input checked="" type="radio"/> Y
Clean Bottle?	<input checked="" type="radio"/> Y	Composite/Discrete Setup?	<input checked="" type="radio"/> C	Notes:	N
Composite/Discrete Setup?	<input checked="" type="radio"/> C	Ice Added?	<input checked="" type="radio"/> Y		
Ice Added?	<input checked="" type="radio"/> Y	Program Started?	<input checked="" type="radio"/> Y		
Program Started?	<input checked="" type="radio"/> Y	Notes:	N		
Notes:	N				

Storm Visit

Date: 1-28-13 Field Staff: D. Grunth Weather: light rain

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time:	15:22	Time:	15:26
pH:	7.38	pH:	7.15
Notes:		Notes:	

earline, before flow not began. FB^{out} was 6.97, and in was 7.29 @ 13:46
inflow was a truck, light rain.

Post-Storm Visit

Date/Time: Tues, 1-29-13 10:45 Field Staff: D. Grunth Weather: Dry

Date/Time End:	1-29-13 16:47	Date/Time End:	1-29-13 16:47	Flow Present:	Yes	<input checked="" type="radio"/> No
# of Samples:	21	# of Samples:	21	Notes:		
Errors?	~	Errors?	~			
Est. Sample Vol:	4.5	Est. Sample Vol:	4.5			
Bottles Replaced?	<input checked="" type="radio"/> Y	Bottles Replaced?	<input checked="" type="radio"/> Y			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	<input checked="" type="radio"/> N	Duplicate Sample?	<input checked="" type="radio"/> N			
Flow Present:	<input checked="" type="radio"/> Yes	Flow Present:	<input checked="" type="radio"/> Yes			
Notes:	truck	Notes:				

DSA 1/29/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 1-29-13 Date: 11:00 Field Staff: D. Amos Weather: dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Pump Volume Calibrated?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Manual Level:	0.13	Manual Level:	0.03
Rain Gage Level and Unobstructed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Instrument Level Before Calibration:	0.15	Instrument Level Before Calibration:	0.03
Notes:	-	Instrument Level After Calibration:	0.13	Instrument Level After Calibration:	0.03
		Pump Volume Calibrated?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes:	no cal
		Box Desiccant Condition:	good		recycling
		Flo-Tote Desiccant Condition:	good		
		Notes:	-		

Pre-Storm Visit

Date/Time: Field Staff: Weather:

Sample Tray Cleaned?	X	Sample Line Rinsed?	X	Flume Cleaned?	X
Sample Line Rinsed?	X	Clean Bottle?	X	Bubbler Secure?	X
Clean Bottle?	X	Composite/Discrete Setup?	X-c	Notes:	
Composite/Discrete Setup?	X	Ice Added?	X		
Ice Added?	X	Program Started?	X		
Program Started?	X	Notes:			
Notes:					

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet)

Time: Time:

pH: pH:

Notes: Notes:

Post-Storm Visit

Date/Time: 1-30-13 6:30 Field Staff: D. Amos Weather: dry

Date/Time End:	1-30-13	Date/Time End:	1-30-13	Flow Present:	Yes <input type="checkbox"/> No <input type="checkbox"/>
# of Samples:	23	# of Samples:	23	Notes:	
Errors?	N	Errors?	N		
Est. Sample Vol:	5.5 L	Est. Sample Vol:	5.5		
Bottles Replaced?	X	Bottles Replaced?	X		
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1		
Duplicate Sample?	N	Duplicate Sample?	N		
Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Notes:	-	Notes:	-		

DSA 2/22/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 1500 Date: 2-20-13 Field Staff: D. Bennett Weather: Clear/Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: Yes ☒ No ☐
 Pump Volume Calibrated? ☒ Yes ☐ No
 Rain Gage Level and Unobstructed? ☒ Yes ☐ No
 Notes:

Flow Present: Yes ☐ No ☒
 Manual Level: 0.125
 Instrument Level Before Calibration: 0.125
 Instrument Level After Calibration: 0.125

Flow Present: Yes ☐ No ☒
 Manual Level: 0.1
 Instrument Level Before Calibration: 0.1
 Instrument Level After Calibration: 0.1

Pump Volume Calibrated? ☒ Yes ☐ No
 Box Desiccant Condition: good
 Flo-Tote Desiccant Condition: good
 Notes:

Notes:

Pre-Storm Visit

Date/Time: 2-20-13 Field Staff: Weather:

Sample Tray Cleaned? ☒
 Sample Line Rinsed? ☒
 Clean Bottle? ☒
 Composite/Discrete Setup? ☒
 Ice Added? ☒
 Program Started? ☒
 Notes:

Sample Line Rinsed? ☒
 Clean Bottle? ☒
 Composite/Discrete Setup? ☒
 Ice Added? ☒
 Program Started? ☒
 Notes:

Flume Cleaned? ☒
 Bubbler Secure? ☒
 Notes:

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 2-22-13 12:00 Field Staff: D. Bennett Weather: Clear/Dry

Date/Time End: 2-22-13 1504
 # of Samples: 30
 Errors? ☒
 Est. Sample Vol: 6.2
 Bottles Replaced? ☒
 # of Samples Sent to Lab: 1
 Duplicate Sample? ☒
 Flow Present: Yes ☒ No ☐
 Notes:

Date/Time End: 2-22-13 1504
 # of Samples: 30
 Errors? ☒
 Est. Sample Vol: 6.2
 Bottles Replaced? ☒
 # of Samples Sent to Lab: 1
 Duplicate Sample? ☒
 Flow Present: Yes ☒ No ☐
 Notes:

Flow Present: Yes ☒ No ☐
 Notes:

DSA 2/24/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 12:45 Date: 2-23-13 Field Staff: D. B. Smith Weather: Clear

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes	No	Flow Present:	Yes	No	Flow Present:	Yes	No
Pump Volume Calibrated?	Yes	No	Manual Level:	0.125		Manual Level:	-	
Rain Gage Level and Unobstructed?	Yes	No	Instrument Level Before Calibration:	0.175		Instrument Level Before Calibration:	-	
Notes:			Instrument Level After Calibration:	0.125		Instrument Level After Calibration:	-	
			Pump Volume Calibrated?	Yes	No	Notes:		
			Box Desiccant Condition:	✓				
			Flo-Tote Desiccant Condition:	✓				
			Notes:					

Pre-Storm Visit

Date/Time: 2-23-13 17:45 Field Staff: D. B. Smith Weather: Clear

Sample Tray Cleaned?	✓	Sample Line Rinsed?	✓	Flume Cleaned?	✓
Sample Line Rinsed?	✓	Clean Bottle?	✓	Bubbler Secure?	✓
Clean Bottle?	✓	Composite/Discrete Setup?	✓	Notes:	-
Composite/Discrete Setup?	Comp	Ice Added?	✓		
Ice Added?	✓	Program Started?	✓		
Program Started?	✓	Notes:	-		
Notes:	-				

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 2-25-13 11:00 Field Staff: D. B. Smith Weather: Clear

Date/Time End:	2-25-13 1703	Date/Time End:	2-25-13 1703	Flow Present:	Yes	No
# of Samples:	55	# of Samples:	55	Notes:		
Errors?	-	Errors?	-			
Est. Sample Vol:	11 L	Est. Sample Vol:	11 L			
Bottles Replaced?	✓	Bottles Replaced?	✓			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	✓	Duplicate Sample?	✓			
Flow Present:	Yes	Flow Present:	Yes	No		
Notes:	Setup duplicate sample	Notes:				

DSA 3/1/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 2-25-13 Date: 11:00 Field Staff: D. Smith Weather: clear

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: Yes ☐ No ☒

Pump Volume Calibrated? Yes ☐ No ☒

Rain Gage Level and Unobstructed? ☒ Yes ☐ No

Notes: _____

Flow Present: Yes ☐ No ☒

Manual Level: ☒ Yes ☐ No

Instrument Level Before Calibration: ☒ Yes ☐ No

Instrument Level After Calibration: ☒ Yes ☐ No

Pump Volume Calibrated? Yes ☐ No ☒

Box Desiccant Condition: ☒ Yes ☐ No

Flo-Tote Desiccant Condition: ☒ Yes ☐ No

Notes: _____

Flow Present: Yes ☐ No ☒

Manual Level: ☒ Yes ☐ No

Instrument Level Before Calibration: ☒ Yes ☐ No

Instrument Level After Calibration: ☒ Yes ☐ No

Pump Volume Calibrated? Yes ☐ No ☒

Box Desiccant Condition: ☒ Yes ☐ No

Flo-Tote Desiccant Condition: ☒ Yes ☐ No

Notes: _____

Pre-Storm Visit

Date/Time: 2-25-13 Field Staff: D. Smith Weather: clear

Sample Tray Cleaned? ☒ Yes ☐ No

Sample Line Rinsed? ☒ Yes ☐ No

Clean Bottle? ☒ Yes ☐ No

Composite/Discrete Setup? ☒ Yes ☐ No

Ice Added? ☒ Yes ☐ No

Program Started? ☒ Yes ☐ No

Notes: Setup duplicate

Sample Line Rinsed? ☒ Yes ☐ No

Clean Bottle? ☒ Yes ☐ No

Composite/Discrete Setup? ☒ Yes ☐ No

Ice Added? ☒ Yes ☐ No

Program Started? ☒ Yes ☐ No

Notes: _____

Flume Cleaned? ☒ Yes ☐ No

Bubbler Secure? ☒ Yes ☐ No

Notes: ☒ Yes ☐ No

Storm Visit

Date: _____ Field Staff: _____ Weather: _____

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: _____

pH: _____

Notes: _____

Post-Storm Visit

Date/Time: 3-1-13 - 16:00 Field Staff: A. Sytsma Weather: clear

Date/Time End: 3-1-13 6:54

of Samples: 17

Errors? N

Est. Sample Vol: 3.5L

Bottles Replaced? N

of Samples Sent to Lab: 2

Duplicate Sample? Y

Flow Present: Yes ☐ No ☒

Notes: _____

Date/Time End: 3-1-13 6:54

of Samples: 17

Errors? N

Est. Sample Vol: 3.5L

Bottles Replaced? N

of Samples Sent to Lab: 1

Duplicate Sample? N

Flow Present: Yes ☐ No ☒

Notes: _____

Flow Present: Yes ☐ No ☒

Notes: _____

DSA 3/6/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 3-6-13 12:05 Date: 3-4-13 Field Staff: D. Bennett Weather: light rain.

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flow Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flow Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pump Volume Calibrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Manual Level: 0.145	Manual Level: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rain Gage Level and Unobstructed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Instrument Level Before Calibration: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Instrument Level Before Calibration: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Notes: rain has begun	Instrument Level After Calibration: 0.145	Instrument Level After Calibration: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Pump Volume Calibrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Box Desiccant Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Flo-Tote Desiccant Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Notes:	

clear & significant sediment buildup from inlet tray

Pre-Storm Visit

Date/Time: 3-6-13 12:05 Field Staff: D. Bennett Weather:

Sample Tray Cleaned? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Line Rinsed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flume Cleaned? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Line Rinsed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Clean Bottle? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Bubbler Secure? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Clean Bottle? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Composite/Discrete Setup? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Composite/Discrete Setup? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ice Added? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Ice Added? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Program Started? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Program Started? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Notes: duplicate		

Storm Visit

Date: 3-6-13 13:02 Field Staff: D. Bennett Weather: light rain.

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: 13:02	Time: 13:00
pH: 7.21	pH: 7.24
Notes:	Notes:

Post-Storm Visit

Date/Time: 3-7-13 12:25 Field Staff: D. Bennett Weather: dry.

Date/Time End: 3-6-13 20:08	Date/Time End: 3-6-13 20:08	Flow Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
# of Samples: 23	# of Samples: 22	Notes: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Errors? 2	Errors? 2	
Est. Sample Vol: 4.5L	Est. Sample Vol: 4.5L	
Bottles Replaced? 1	Bottles Replaced? 1	
# of Samples Sent to Lab: 2	# of Samples Sent to Lab: 1	
Duplicate Sample? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Duplicate Sample? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Flow Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flow Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Notes: relatively clean	Notes:	

But may be illusion of small bottles.

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

03-12-13

Maintenance and Pre-Storm Checklist

Time: 12:00 Date: 3-7-13 Field Staff: D. Burn H Weather: Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: <input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present: <input type="radio"/> Yes <input checked="" type="radio"/> No	Flow Present: <input type="radio"/> Yes <input checked="" type="radio"/> No
Pump Volume Calibrated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Manual Level: <input checked="" type="radio"/> Yes <input type="radio"/> No	Manual Level: <input type="radio"/> Yes <input checked="" type="radio"/> No
Rain Gage Level and Unobstructed? <input checked="" type="radio"/> Yes <input type="radio"/> No	Instrument Level Before Calibration: <input checked="" type="radio"/> Yes <input type="radio"/> No	Instrument Level Before Calibration: <input type="radio"/> Yes <input checked="" type="radio"/> No
Notes: <u>Broke Flow.</u>	Instrument Level After Calibration: <input checked="" type="radio"/> Yes <input type="radio"/> No	Instrument Level After Calibration: <input type="radio"/> Yes <input checked="" type="radio"/> No
	Pump Volume Calibrated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <u>-</u>
	Box Desiccant Condition: <input checked="" type="radio"/> Yes <input type="radio"/> No	
	Flo-Tote Desiccant Condition: <input checked="" type="radio"/> Yes <input type="radio"/> No	
	Notes: <u>-</u>	

Pre-Storm Visit

Date/Time: 3-7-13 12:00 Field Staff: D. Burn H Weather: Dry

Sample Tray Cleaned? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Line Rinsed? <input checked="" type="radio"/> Yes <input type="radio"/> No	Flume Cleaned? <input checked="" type="radio"/> Yes <input type="radio"/> No
Sample Line Rinsed? <input checked="" type="radio"/> Yes <input type="radio"/> No	Clean Bottle? <input checked="" type="radio"/> Yes <input type="radio"/> No	Bubbler Secure? <input checked="" type="radio"/> Yes <input type="radio"/> No
Clean Bottle? <input checked="" type="radio"/> Yes <input type="radio"/> No	Composite/Discrete Setup? <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <u>-</u>
Composite/Discrete Setup? <input checked="" type="radio"/> Yes <input type="radio"/> No	Ice Added? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Ice Added? <input checked="" type="radio"/> Yes <input type="radio"/> No	Program Started? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Program Started? <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <u>-</u>	
Notes: <u>-</u>		

Storm Visit

Date: _____ Field Staff: _____ Weather: _____

Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet)

Time: _____ Time: _____

pH: _____ pH: _____

Notes: _____ Notes: _____

Post-Storm Visit

Date/Time: 3-13-13 10:00 Field Staff: A. Sanderson Weather: dry

Date/Time End: 3-13-13 2:12	Date/Time End: 3-13-13 2:12	Flow Present: <input type="radio"/> Yes <input checked="" type="radio"/> No
# of Samples: 18	# of Samples: 18	Notes: <u>-</u>
Errors? <u>2</u>	Errors? <u>2</u>	
Est. Sample Vol: 4L	Est. Sample Vol: 4L	
Bottles Replaced? <u>Y</u>	Bottles Replaced? <u>Y</u>	
# of Samples Sent to Lab: <u>1</u>	# of Samples Sent to Lab: <u>1</u>	
Duplicate Sample? <u>N</u>	Duplicate Sample? <u>N</u>	
Flow Present: <input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present: <input type="radio"/> Yes <input checked="" type="radio"/> No	
Notes: _____	Notes: _____	

DGA 3/14/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 3/13/13 1200 Date: 3/13/13 Field Staff: AS Weather: OVERCAST + MILD

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:

Pump Volume Calibrated?

Rain Gage Level and
Unobstructed?

Notes:

Flow Present:

Manual Level:

Instrument Level Before
Calibration:Instrument Level After
Calibration:

Pump Volume Calibrated?

Box Desiccant Condition:

Flo-Tote Desiccant Condition:

Notes:

Flow Present:

Manual Level:

Instrument Level Before
Calibration:Instrument Level After
Calibration:

Notes:

Pre-Storm Visit

Date/Time: 3-13-13 12:00

Field Staff: A.S.

Weather:

Sample Tray Cleaned?

Sample Line Rinsed?

Clean Bottle?

Composite/Discrete Setup?

Ice Added?

Program Started?

Notes:

Sample Line Rinsed?

Clean Bottle?

Composite/Discrete Setup?

Ice Added?

Program Started?

Notes:

Flume Cleaned?

Bubbler Secure?

Notes:

Storm Visit

Date:

Field Staff:

Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time:

pH:

Notes:

Time:

pH:

Notes:

Post-Storm Visit

Date/Time: 3-15-13 10:00

Field Staff: D. Brumby

Weather: V10

Date/Time End:

of Samples:

Errors?

Est. Sample Vol:

Bottles Replaced?

of Samples Sent to Lab:

Duplicate Sample?

Flow Present:

Notes:

Date/Time End:

of Samples:

Errors?

Est. Sample Vol:

Bottles Replaced?

of Samples Sent to Lab:

Duplicate Sample?

Flow Present:

Notes:

Flow Present:

Notes:

D84 3/16/13

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 1000 Date: 3-15-13 Field Staff: DBennett Weather: dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Flow Present:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Flow Present:	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Pump Volume Calibrated?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Manual Level:	0.125		Manual Level:	0.11	
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Instrument Level Before Calibration:	2	normal	Instrument Level Before Calibration:	2	
Notes:	low flow dry flow at inlet		Instrument Level After Calibration:	0.125		Instrument Level After Calibration:	0.11	
			Pump Volume Calibrated?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes:	Took 2 bubbles to register proper level! DATA log?	
			Box Desiccant Condition:	pink				
			Flo-Tote Desiccant Condition:	✓				
			Notes:	changed desiccant				

Pre-Storm Visit

Date/Time: 3-15-13 Field Staff: DBennett Weather: dry

Sample Tray Cleaned?	<input checked="" type="checkbox"/>	Sample Line Rinsed?	<input checked="" type="checkbox"/>	Flume Cleaned?	<input checked="" type="checkbox"/>
Sample Line Rinsed?	<input checked="" type="checkbox"/>	Clean Bottle?	<input checked="" type="checkbox"/>	Bubbler Secure?	<input checked="" type="checkbox"/>
Clean Bottle?	<input checked="" type="checkbox"/>	Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Notes:	
Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Ice Added?	<input checked="" type="checkbox"/>		
Ice Added?	<input checked="" type="checkbox"/>	Program Started?	<input checked="" type="checkbox"/>		
Program Started?	<input checked="" type="checkbox"/>	Notes:			
Notes:					

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 3-17-13 Field Staff: DB Weather: Dry

Date/Time End:	3-16-13 14:35	Date/Time End:	3-16-13 14:35	Flow Present:	<input type="radio"/> Yes	<input checked="" type="radio"/> No
# of Samples:	44	# of Samples:	44	Notes:		
Errors?	2 ~	Errors?	2 ~			
Est. Sample Vol:	10L	Est. Sample Vol:	10L			
Bottles Replaced?	✓	Bottles Replaced?	✓			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	2 ~	Duplicate Sample?	2 ~			
Flow Present:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Flow Present:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Notes:	low box flow at inlet	Notes:	small box flow			

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

4-5-13 A

Maintenance and Pre-Storm Checklist

Time: 4-4-13 Date: 12:00 Field Staff: J. Bennett Weather: dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Pump Volume Calibrated?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Manual Level:	0.135 e	Manual Level:	0
Rain Gage Level and Unobstructed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Instrument Level Before Calibration:	0.135 e	Instrument Level Before Calibration:	NA
Notes:		Instrument Level After Calibration:	e NA	Instrument Level After Calibration:	NA
		Pump Volume Calibrated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes:	e
		Box Desiccant Condition:			
		Flo-Tote Desiccant Condition:			
		Notes:	!		

Pre-Storm Visit

Date/Time: 4-4-13 12:00 Field Staff: J. Bennett Weather:

Sample Tray Cleaned?	<input checked="" type="checkbox"/>	Sample Line Rinsed?	<input checked="" type="checkbox"/>	Flume Cleaned?	
Sample Line Rinsed?	<input checked="" type="checkbox"/>	Clean Bottle?	<input checked="" type="checkbox"/>	Bubbler Secure?	
Clean Bottle?	<input checked="" type="checkbox"/>	Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Notes:	
Composite/Discrete Setup?	<input checked="" type="checkbox"/>	Ice Added?	<input checked="" type="checkbox"/>		
Ice Added?	<input checked="" type="checkbox"/>	Program Started?	<input checked="" type="checkbox"/>		
Program Started?	<input checked="" type="checkbox"/>	Notes:			
Notes:	e				

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time:		Time:	
pH:		pH:	
Notes:		Notes:	

Post-Storm Visit

Date/Time: 4-5-13 12:00 Field Staff: A. Bennett Weather: e partly cloudy

Date/Time End:	4-5-13 7:19	Date/Time End:	4-5-13 7:19	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
# of Samples:	27	# of Samples:	27	Notes:	
Errors?	e	Errors?	e		
Est. Sample Vol:	6	Est. Sample Vol:	6		
Bottles Replaced?	1	Bottles Replaced?	1		
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1		
Duplicate Sample?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Duplicate Sample?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Flow Present:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Notes:		Notes:			

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

4-5-13 G

Maintenance and Pre-Storm Checklist

Time: 4-5-13 1200 Date: Field Staff: A. Sylsma Weather: Dry
 Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet) Station Name: FB-B (Bypass)

Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No	Flow Present:	Yes	<input checked="" type="radio"/> No
Pump Volume Calibrated?	Yes	<input checked="" type="radio"/> No	Manual Level:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes	Manual Level:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No	Instrument Level Before Calibration:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes	Instrument Level Before Calibration:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes
Notes:			Instrument Level After Calibration:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes	Instrument Level After Calibration:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes
			Pump Volume Calibrated?	Yes	<input checked="" type="radio"/> No	Notes:		
			Box Desiccant Condition:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes			
			Flo-Tote Desiccant Condition:	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes			
			Notes:					

Pre-Storm Visit

Date/Time: 4-5-13 Field Staff: A. Sylsma Weather: Dry

Sample Tray Cleaned?	<input checked="" type="radio"/> No	Sample Line Rinsed?	<input checked="" type="radio"/> No	Flume Cleaned?	<input checked="" type="radio"/> No
Sample Line Rinsed?	<input checked="" type="radio"/> No	Clean Bottle?	<input checked="" type="radio"/> No	Bubbler Secure?	<input checked="" type="radio"/> No
Clean Bottle?	<input checked="" type="radio"/> No	Composite/Discrete Setup?	<input checked="" type="radio"/> No	Notes:	<input checked="" type="radio"/> No
Composite/Discrete Setup?	<input checked="" type="radio"/> No	Ice Added?	<input checked="" type="radio"/> No		
Ice Added?	<input checked="" type="radio"/> No	Program Started?	<input checked="" type="radio"/> No		
Program Started?	<input checked="" type="radio"/> No	Notes:			
Notes:					

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet)

Time: pH: Notes:

Post-Storm Visit

Date/Time: 4-17-13 Field Staff: D. Brown Weather: Dry

Date/Time End:	4-6-13 9:00	Date/Time End:	4-6-13 5:00	Flow Present:	Yes	<input checked="" type="radio"/> No
# of Samples:	16	# of Samples:	16	Notes:		
Errors?	<input checked="" type="radio"/> No	Errors?	<input checked="" type="radio"/> No			
Est. Sample Vol:	3.5	Est. Sample Vol:	3.5			
Bottles Replaced?	<input checked="" type="radio"/> No	Bottles Replaced?	<input checked="" type="radio"/> No			
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1			
Duplicate Sample?	<input checked="" type="radio"/> No	Duplicate Sample?	<input checked="" type="radio"/> No			
Flow Present:	Yes	Flow Present:	Yes	<input checked="" type="radio"/> No		
Notes:						

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellin gham, WA

4/10/13

Maintenance and Pre-Storm Checklist

Time: 12:00 Date: 4-7-13 Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present:	<input type="radio"/> Yes <input checked="" type="radio"/> No	Flow Present:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Pump Volume Calibrated?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Manual Level:	0.15	Manual Level:	0
Rain Gage Level and Unobstructed?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Instrument Level Before Calibration:	0.15	Instrument Level Before Calibration:	e
Notes:	Base Flow	Instrument Level After Calibration:	e	Instrument Level After Calibration:	e
		Pump Volume Calibrated?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Notes:	
		Box Desiccant Condition:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
		Flo-Tote Desiccant Condition:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
		Notes:			

Pre-Storm Visit

Date/Time: 4-7-13 12:00 Field Staff: D. Berni Weather: Dry

Sample Tray Cleaned?	<input checked="" type="radio"/> Yes	Sample Line Rinsed?	<input checked="" type="radio"/> Yes	Flume Cleaned?	<input checked="" type="radio"/> Yes
Sample Line Rinsed?	<input checked="" type="radio"/> Yes	Clean Bottle?	<input checked="" type="radio"/> Yes	Bubbler Secure?	<input checked="" type="radio"/> Yes
Clean Bottle?	<input checked="" type="radio"/> Yes	Composite/Discrete Setup?	<input checked="" type="radio"/> Yes	Notes:	
Composite/Discrete Setup?	<input checked="" type="radio"/> Yes	Ice Added?	<input checked="" type="radio"/> Yes		
Ice Added?	<input checked="" type="radio"/> Yes	Program Started?	<input checked="" type="radio"/> Yes		
Program Started?	<input checked="" type="radio"/> Yes	Notes:			
Notes:					

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time:		Time:	
pH:		pH:	
Notes:		Notes:	

Post-Storm Visit

Date/Time: 4-11-13 Field Staff: D. Berni Weather: Light rain

Date/Time End:	4-10-13 11:26	Date/Time End:	4-10-13 11:26	Flow Present:	<input type="radio"/> Yes <input checked="" type="radio"/> No
# of Samples:	30	# of Samples:	30	Notes:	
Errors?	2	Errors?	2		
Est. Sample Vol:	6.5	Est. Sample Vol:	6.5		
Bottles Replaced?	Y	Bottles Replaced?	Y		
# of Samples Sent to Lab:	1	# of Samples Sent to Lab:	1		
Duplicate Sample?	N	Duplicate Sample?	N		
Flow Present:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Notes:		Notes:			

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

5-12-13

Maintenance and Pre-Storm Checklist

Time: 12:00 Date: 5-12-13 Field Staff: D. Brown Weather:
 Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet) Station Name: FB-B (Bypass)

Flow Present: <input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present: Yes <input type="radio"/> No <input checked="" type="radio"/>	Flow Present: Yes <input type="radio"/> No <input checked="" type="radio"/>
Pump Volume Calibrated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Manual Level: 0.15	Manual Level: <input checked="" type="radio"/> e
Rain Gage Level and Unobstructed? <input checked="" type="radio"/> Yes <input type="radio"/> No	Instrument Level Before Calibration: 0.15	Instrument Level Before Calibration: <input checked="" type="radio"/> e
Notes: _____	Instrument Level After Calibration: <input checked="" type="radio"/> e	Instrument Level After Calibration: <input checked="" type="radio"/> e
	Pump Volume Calibrated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: <input checked="" type="radio"/> e
	Box Desiccant Condition: <input checked="" type="radio"/> V	
	Flo-Tote Desiccant Condition: <input checked="" type="radio"/> V	
	Notes: _____	

pose - no bar.
communications (asked)

Pre-Storm Visit

Date/Time: 4-12-13 Field Staff: D. Brown Weather: Dry

Sample Tray Cleaned? <input checked="" type="radio"/> V	Sample Line Rinsed? <input checked="" type="radio"/> V	Flume Cleaned? <input checked="" type="radio"/> e
Sample Line Rinsed? <input checked="" type="radio"/> V	Clean Bottle? <input checked="" type="radio"/> V	Bubbler Secure? <input checked="" type="radio"/> e
Clean Bottle? <input checked="" type="radio"/> V	Composite/Discrete Setup? <input checked="" type="radio"/> e	Notes: <input checked="" type="radio"/> e
Composite/Discrete Setup? <input checked="" type="radio"/> V	Ice Added? <input checked="" type="radio"/> V	
Ice Added? <input checked="" type="radio"/> V	Program Started? <input checked="" type="radio"/> V	
Program Started? <input checked="" type="radio"/> V	Notes: <input checked="" type="radio"/> e	
Notes: <input checked="" type="radio"/> e		

Storm Visit

Date: _____ Field Staff: _____ Weather: _____

Station Name: FB-IN (Inlet)	Station Name: FB-OUT (Outlet)
Time: _____	Time: _____
pH: _____	pH: _____
Notes: _____	Notes: _____

Post-Storm Visit

Date/Time: 5-14-13 12:00 Field Staff: D. Brown Weather: _____

Date/Time End: 5-12-13 2:54	Date/Time End: 5-12-13 2:54	Flow Present: Yes <input type="radio"/> No <input checked="" type="radio"/>
# of Samples: 1	# of Samples: 1	Notes: _____
Errors? 0	Errors? 2	
Est. Sample Vol: 3.6	Est. Sample Vol: 3.6	
Bottles Replaced? Y	Bottles Replaced? Y	
# of Samples Sent to Lab: 1	# of Samples Sent to Lab: 1	
Duplicate Sample? N	Duplicate Sample? N	
Flow Present: <input checked="" type="radio"/> Yes <input type="radio"/> No	Flow Present: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Notes: Base Flowing in	Notes: _____	

Strainer buried in debris. may have caused high inlet
concentration

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

5-21-13

Maintenance and Pre-Storm Checklist

Time: 5-14-13 Date: 12:00 Field Staff: D. Brown Weather: py

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: ☒ Yes ☐ No

Pump Volume Calibrated? ☒ Yes ☐ No

Rain Gage Level and Unobstructed? ☒ Yes ☐ No

Notes: _____

Flow Present: ☐ Yes ☒ No

Manual Level: 0.15

Instrument Level Before Calibration: 0.15

Instrument Level After Calibration: NA

Pump Volume Calibrated? ☒ Yes ☐ No

Box Desiccant Condition: ☒ V

Flo-Tote Desiccant Condition: ☒ V

Notes: _____

Flow Present: ☐ Yes ☒ No

Manual Level: 0

Instrument Level Before Calibration: 0

Instrument Level After Calibration: 0

Notes: _____

changed to 30
direct sample

Pre-Storm Visit

Date/Time: 5-14-13 Field Staff: J. Brown Weather: py

Sample Tray Cleaned? ☒ V

Sample Line Rinsed? ☒ V

Clean Bottle? ☒ V

Composite/Discrete Setup? ☐ 0

Ice Added? ☒ Y

Program Started? ☒ Y

Notes: _____

Sample Line Rinsed? ☒ V

Clean Bottle? ☒ V

Composite/Discrete Setup? ☒ V

Ice Added? ☒ V

Program Started? ☒ V

Notes: _____

Flume Cleaned? ☒ V

Bubbler Secure? ☒ V

Notes: _____

Storm Visit

Date: _____ Field Staff: _____ Weather: _____

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: _____

Time: _____

pH: _____

pH: _____

Notes: _____

Notes: _____

Post-Storm Visit

Date/Time: 5-22-13 1500 Field Staff: A. Sytsma Weather: py

Date/Time End: 5-21-13

of Samples: 1

Errors? 2

Est. Sample Vol: 3

Bottles Replaced? Y

of Samples Sent to Lab: 1

Duplicate Sample? N

Flow Present: ☒ Yes ☐ No

Notes: _____

Date/Time End: 5-21-13

of Samples: 1

Errors? N

Est. Sample Vol: 3

Bottles Replaced? Y

of Samples Sent to Lab: 1

Duplicate Sample? N

Flow Present: ☐ Yes ☒ No

Notes: _____

Flow Present: ☐ Yes ☐ No

Notes: _____

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

Maintenance and Pre-Storm Checklist

Time: 5-22-13 1300 Date: 5 Field Staff: A. Sylvestre Weather: Dry

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present: ☒ Yes ☐ No
 Pump Volume Calibrated? ☒ Yes ☐ No
 Rain Gage Level and Unobstructed? ☒ Yes ☐ No
 Notes: Base flow present

Flow Present: ☒ Yes ☐ No
 Manual Level: ☒ e
 Instrument Level Before Calibration: ☒ e
 Instrument Level After Calibration: ☒ e

Flow Present: ☒ Yes ☐ No
 Manual Level: ☒ e
 Instrument Level Before Calibration: ☒ e
 Instrument Level After Calibration: ☒ e

Pump Volume Calibrated? ☒ Yes ☐ No
 Box Desiccant Condition: ☒
 Flo-Tote Desiccant Condition: ☒
 Notes:

Notes: ☒ e

Pre-Storm Visit

Date/Time: 5-22-13 1700 Field Staff: A. Sylvestre Weather: Dry

Sample Tray Cleaned? ☒
 Sample Line Rinsed? ☒
 Clean Bottle? ☒
 Composite/Discrete Setup? ☒ D
 Ice Added? ☒
 Program Started? ☒
 Notes:

Sample Line Rinsed? ☒
 Clean Bottle? ☒
 Composite/Discrete Setup? ☒ D
 Ice Added? ☒
 Program Started? ☒
 Notes:

Flume Cleaned? ☒
 Bubbler Secure? ☒
 Notes: ☒ e

Storm Visit

Date: Field Staff: Weather:

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: pH: Notes:

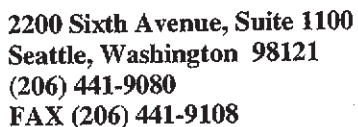
Post-Storm Visit

Date/Time: 5-23-13 1800 Field Staff: D. Bennett Weather: Dry

Date/Time End: 5-22-13 7038
 # of Samples: 1
 Errors? 2
 Est. Sample Vol: 3L
 Bottles Replaced? ☒
 # of Samples Sent to Lab: 1
 Duplicate Sample? ☒ N
 Flow Present: ☒ Yes ☐ No
 Notes: Base flow

Date/Time End: 5-22-13 7038
 # of Samples: 1
 Errors? 2
 Est. Sample Vol: 3L
 Bottles Replaced? ☒ X
 # of Samples Sent to Lab: 1
 Duplicate Sample? ☒ N
 Flow Present: ☒ Yes ☐ No
 Notes:

Flow Present: ☒ Yes ☐ No
 Notes:



Page 1 of 2

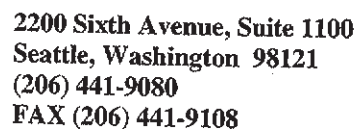
Notes: Use churn splitter to apportion large samples into smaller bottles.

please split FB-IN 14:28 to create FB QA-3 (duplicate sample)

Amelise Gtz 00-13-13

S. NIELSON

$$\begin{array}{r} 6 \ 13 \ 13 \\ 13 \ 0 \end{array}$$



CHAIN OF CUSTODY RECORD

Page ____ of ____

db /c:/documents and settings/dbennett/desktop/coc rinsate 09-04540-000.docx

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

6-12-13

Maintenance and Pre-Storm Checklist

Time: _____ Date: 6-11-13 Field Staff: D. Bennett Weather: _____

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Station Name: FB-B (Bypass)

Flow Present:

Yes

No

Pump Volume Calibrated?

Yes

No

Rain Gage Level and
Unobstructed?

Yes

No

Notes:

Baseflow present

Flow Present:

Yes

No

Manual Level:

e

Instrument Level Before
Calibration:

e

Instrument Level After
Calibration:

e

Pump Volume Calibrated?

Yes

No

Box Desiccant Condition:

✓

Flo-Tote Desiccant Condition:

✓

Notes:

Flow Present:

Yes

No

Manual Level:

e

Instrument Level Before
Calibration:

e

Instrument Level After
Calibration:

e

Notes:

Pre-Storm Visit

Date/Time: 6-11-13 Field Staff: D. Bennett Weather: dry

Sample Tray Cleaned?

✓

Sample Line Rinsed?

✓

Clean Bottle?

✓

Composite/Discrete Setup?

✓

Ice Added?

✓

Program Started?

✓

Notes:

Sample Line Rinsed?

✓

Clean Bottle?

✓

Composite/Discrete Setup?

✓

Ice Added?

✓

Program Started?

✓

Notes:

Flume Cleaned?

✓

Bubbler Secure?

✓

Notes:

Storm Visit

Date: _____ Field Staff: _____ Weather: _____

Station Name: FB-IN (Inlet)

Station Name: FB-OUT (Outlet)

Time: _____

Time: _____

pH: _____

pH: _____

Notes: _____

Notes: _____

Post-Storm Visit

Date/Time: 6-12-13 12:10 Field Staff: D. Bennett - A. Sydes Weather: dry

Date/Time End:

6-12-13 14:28

of Samples:

1

Errors?

no

Est. Sample Vol:

3L

Bottles Replaced?

yes

of Samples Sent to Lab:

1

Duplicate Sample?

yes

Flow Present:

Yes

No

Notes:

Date/Time End:

6-12-13 14:28

of Samples:

1

Errors?

no

Est. Sample Vol:

3L

Bottles Replaced?

yes

of Samples Sent to Lab:

1

Duplicate Sample?

no

Flow Present:

Yes

No

Notes:

Flow Present:

Yes

No

Notes:

FIELD LOG SHEET and FLOW DATA VALIDATION

Location: 2928 Hayward Drive, Bellingham, WA

6-20-13

Maintenance and Pre-Storm Checklist

Time: 14:22 Date: D. Bennett Field Staff: D. Bennett Weather: Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet) Station Name: FB-B (Bypass)

Flow Present: Yes No Flow Present: Yes No Flow Present: Yes No
 Pump Volume Calibrated? Yes No Manual Level: Manual Level:
 Rain Gage Level and Unobstructed? Yes No Instrument Level Before Calibration: Instrument Level Before Calibration:
 Instrument Level After Calibration: Instrument Level After Calibration:
 Notes: Notes:
 Pump Volume Calibrated? Yes No
 Box Desiccant Condition: Box Desiccant Condition:
 Flo-Tote Desiccant Condition: Flo-Tote Desiccant Condition:
 Notes: Notes:

Pre-Storm Visit

Date/Time: 6-19-13 14:22 Field Staff: D. Bennett Weather: dry
 Sample Tray Cleaned? Sample Line Rinsed? Flume Cleaned?
 Sample Line Rinsed? Clean Bottle? Bubbler Secure?
 Clean Bottle? Composite/Discrete Setup? Notes:
 Composite/Discrete Setup? Ice Added?
 Ice Added? Program Started?
 Program Started? Notes:

Storm Visit

Date: Field Staff: Weather:
 Station Name: FB-IN (Inlet) Station Name: FB-OUT (Outlet)
 Time: Time:
 pH: pH:
 Notes: Notes:

Post-Storm Visit

Date/Time: 6-20-13 11:50 Field Staff: D. Bennett Weather: dry
 Date/Time End: 6-20-13 4:00 Date/Time End: 6-20-13 4:00 Flow Present: Yes No
 # of Samples: 1 # of Samples: 1 Notes:
 Errors? no Errors? no
 Est. Sample Vol: 36 Est. Sample Vol: 36
 Bottles Replaced? no Bottles Replaced? no
 # of Samples Sent to Lab: 1 # of Samples Sent to Lab: 1
 Duplicate Sample? no Duplicate Sample? no
 Flow Present: Yes No Flow Present: Yes No
 Notes: Notes:

