APPENDIX G

Field Forms



		FIELD I	LOG SHEET		Teller and the gel and	a dia	
Project Name: Up	-Flo Filter	Project #:	13-05605-000			G	
Site Location: WSD	OT TEST FACILITY	Client:	Hydro International				
*	of the thouse	Event ID:	2017042			HEF	RER
Site ID: WUFF						- CON	VSLETAN
	- 16:20	Field Staff: J.BUNN	D A SYDNOSEN		CLEAR		
Date: 2017-04-11		Add a productly of a dama in the product of the state of the dama and the dama and the state of	presents and a similar that a statisticans to the principal or all one print they are	The Minister William Science	Contraction of the Contraction of the		and the second
Station Na	me: WUFF-In	Station Nar	ne: WUFF-Out		Station Name: V		
Sampler Battery Volt. (V):		Sampler Battery Volt. (V):			\dj. (ft):		-
Primary Device Level? Offset Before Adj. (ft):	Yes No no flow gage at this station	Primary Device Level?	<u>Ves</u> No	Offset AfterAdj Measure Down			
Offset AfterAdj. (ft):	no flow gage at this station						-
Actual Pump Vol (ml):		Actual Pump Vol (ml)			Station Name: V	MURR-SP	
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml)	were stated and the		and the second		HE CAL
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml)	Nes No	Offset Before A	1 40.5		
Intake Checked? Desiccant Dry?	Ves No	Intake Checked? Desiccant Dry?	Ves No	Offset AfterAdj Measure Down	P - We - P - P - P - P - P - P - P - P - P -	1.000	
Sample Line Rinsed?	Ves No	Sample Line Rinsed?	CI'R NO				
Clean Bottle?	(Ves No	Clean Bottle?	(Yes No	- 8	Station Name: V	VUFF-RG	
Pacing (cf):		Pacing (cf):	- (A)			the state of the second	A.L.
Ice Added? Browneys Startad?	Ve Na No	Lee Added? Program Started?	Yes No	Rain Gauge Le Rain Gauge Ur		Yes Yes	No No
Program Started? Tubing Connected?	NU.	Tubing Connected?	Ne Na	_ Kansi Gange Us	10051118.1003	113	140
p11 sensor calibrated?	Yes No	p11 sensor calibrated?	Yes No	=			
Flow Conditions:	Rise Peak Fall Bing f 'no' to any questions a boxe, expl	Flow Conditions:	Rise Peak Fall None				
FRESH INSTA		Poste	Storm Visit				
	Time: 12:15	Field Staff: 8.8 (a.	Storm Visit	Weather: C	lovaly		
Date: 4.13.17	Time: 2: 5	Field Staff: B.B.a.	the second se	da deservations provide	DVA4 Station Name: V	NUFF-BP	
Date: 4.13.17 Station Na Date/Time End:	1	Field Staff: 6.8 (a. Station Nar Date/Time End:	ad muullen	S Offset Before A	Station Name: V	A DECEMBER OF THE OWNER OWNE	
Date: 4.13.17 Station Na Date/Time End: # of Samples:	me: WUFF-In 4/3/17/2/15	Field Staff: 6.8 (a. Station Nar Date/Time End: # of Samples:	18 MMUllen me: WUFF-Out 413/17/2:15	Offset Before A Offset AfterAdj	Station Name: V \dj. (ft): j. (ft):	A DECEMBER OF THE OWNER OWNE	
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error?	me: WUFF-In 4/2/19/2/15 100 100 100	Field Staff: 8.8 (a. Station Nar Date/Time End: # of Samples: Sampled Without Error?	ne: WUFF-Out	Offset Before A Offset AfterAdj Mensure Down	Station Name: V Adj. (ft): j. (ft): m (ft):		
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft):	me: WUFF-In 4/3/19/2-15 / 00 No no gage at this station no gage at this station	Field Staff: 6.8 (a. Station Nar Date/Time End: # of Samples:	10 M. M. Ullen me: WUFF-Out 413/17/2.13	Offset Before A Offset AfterAdj Mensure Down	Station Name: V vdj. (ft): j. (ft): j. (ft): station Name: V		
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft):	me: WUFF-In 4/3/19/2-15 100 100 100 100 100 100 100 1	Field Staff: b.B.O. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L):	10 MMULLEN me: WUFF-Out H(3)17/2:15	Offset Before A Offset AfterAdj Mensure Down	Station Name: V Adj. (ft): j. (ft): in (ft): Station Name: V		
Date: 4.13. 7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition:	me: WUFF-In 4/3/9/2-15 / 00 No no gage at this station no gage at this station 22- dark group c back	Field Staff: 6.8 (a. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 44 Visual Condition:	HI3/17/2:15	Offset Before A Offset AfterAdj Mensure Down	Station Name: V \dj. (ft): j. (ft): \dj. (ft): \dj. (ft): Station Name: V \dj. (ft): \dj. (ft):		
Date: 4.13. 2 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced?	me: WUFF-In 4/3/9/2-15 / 00 No no gage at this station no gage at this station 22- 0014 (NO) 125 NO	Field Staff: b.b. Station Nas Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Yisual Condition: Bottles Replaced?	HI3/17/2:15 HI3/17/2:15 NO NO Lelandlight Jac	Offset Before A Offset AfterAdj Mensure Down	Station Name: V \dj. (ft): j. (ft): a (ft): Station Name: V \dj. (ft): \dj. (ft): j. (ft): j. (ft):	WUFF-SP	
Date: 4.13.12 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	me: WUFF-In 4/3/9/2-15 / 00 No no gage at this station no gage at this station 22- dark group c back	Field Staff: 6.B (o. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Yisual Condition: Bottles Replaced? Sent to Lab?	HI3/17/2:15	Offset Before A Offset AfterAdj Mensure Down	Station Name: V \dj. (ft): j. (ft): \dj. (ft): \dj. (ft): Station Name: V \dj. (ft): \dj. (ft):	WUFF-SP	
Date: 4.13. 2 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	me: WUFF-In 4/3/9/2-15 / 00 Tes No no gage at this station no gage at this station 22- 00 125 No 125 No 125 No	Field Staff: b.b. Station Nas Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Yisual Condition: Bottles Replaced?	Mullin me: WUFF-Out H131772.15 No Ves No Yes No Yes No Yes No	Offset Before A Offset AfterAdj Mensure Down S Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Let	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	No
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	me: WUFF-In 4/3/9/2-15 / 00 Tes No 100 gage at this station no gage at this station 100 ga	Field Staff: b.B. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Y Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Offset Before A Offset AfterAdj Mensure Down	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG	No
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	me: WUFF-In 4/3/9/2-15 / 00 Tes No 10 gage at this station no gage at this station 12 12 12 12 10 10 10 10 10 10 10 10 10 10	Field Staff: b.B. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Y Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Offset Before A Offset AfterAdj Mensure Down S Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Let	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	me: WUFF-In 4/3/9/2-15 / 00 Tes No 100 gage at this station no gage at this station 100 ga	Field Staff: b.B. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Y Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Offset Before A Offset AfterAdj Mensure Down S Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Let	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	me: WUFF-In 4/3/9/2-15 / 00 Tes No 100 gage at this station no gage at this station 100 ga	Field Staff: b.B. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Y Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Offset Before A Offset AfterAdj Mensure Down S Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Let	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	me: WUFF-In 4/3/9/2-15 / 00 Tes No 100 gage at this station no gage at this station 100 ga	Field Staff: b.B. Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Y Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Offset Before A Offset AfterAdj Mensure Down S Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Let	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: & of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? oH sensor calibrated? Flow Conditions:	me: WUFF-In HISIO/2-IS No no gage at this station no gage at this station No AATL OLL C LOLL CS NO CS NO Yes No Yes No Yes No Rise Peak Fall France C'no' to any questions above, expl	Field Staff: b.B (a Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Yisual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions to	HI3 17/2.15 HI3 17/2.15 NO NO Ves NO Yes NO Yes NO Yes NO Yes NO Yes NO Yes NO	Contract Sector A Sec	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: & of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (ii	me: WUFF-In 4/3/9/2-15 / 00 Tes No 100 gage at this station no gage at this station 100 ga	Field Staff: B.B.O. Station Nas Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: hain why and remedial actions to	HI3 17/2.15 WUFF-Out HI3 17/2.15 (00 NO Ves NO Ves NO Ves NO Ves NO Rise Peak Fall Come ken)	Confiset Before A Offset AfterAdj Measure Down Offset Before A Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Un	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes	
Date: 4.13.17 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (ii	me: WUFF-In HISIO/2-IS No no gage at this station no gage at this station No AATL OLL C LOLL CS NO CS NO Yes No Yes No Yes No Rise Peak Fall France C'no' to any questions above, expl	Field Staff: b.B (a Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Yisual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions to	HI3 17/2.15 WUFF-Out HI3 17/2.15 (00 NO Ves NO Ves NO Ves NO Ves NO Rise Peak Fall Come ken)	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V \dj. (ft): j. (ft): \dj. (ft): Station Name: V \dj. (ft):	WUFF-SP VUFF-RG Yes Yes	No
Date: 4.13. [7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (if	me: WUFF-In USIA/2-IS No no gage at this station no gage at this station No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Tho' to any questions above, expl	Field Staff: b.B (a) Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions ta Grab S Field Staff:	Muullen me: WUFF-Out H(3)17/2.15 No Yes No Yes No	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V Adj. (ft): j. (ft): j. (ft): Station Name: V Adj. (ft): j. (ft): Station Name: V Adj. (ft): j. (ft): Station Name: V vel? sobstructed?	WUFF-SP VUFF-RG Yes Yes	No ditions
Date: 4.13. [7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (if	me: WUFF-In USIA 2-15 No no gage at this station no gage at this station No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Tho' to any questions above, expl	Field Staff: b.B (a) Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions ta Grab S Field Staff:	A Muullan me: WUFF-Out H(3) 17/2.15 No Yes No Yes No Rize Peak Fall Cone	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V \dj. (ft): j. (ft): if (ft): Station Name: V \dj. (ft): \dj. (ft): j. (ft): \dj. (ft): <t< td=""><td>WUFF-SP VUFF-RG Yes Yes</td><td>No ditions fall None</td></t<>	WUFF-SP VUFF-RG Yes Yes	No ditions fall None
Date: 4.13. [7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (if	me: WUFF-In USIA 2-15 No no gage at this station no gage at this station No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Tho' to any questions above, expl	Field Staff: b.B (a) Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions ta Grab S Field Staff:	A Muullan me: WUFF-Out H(3) 17/2.15 NO NO Ver NO Ver NO	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V kdj. (ft): j. (ft): j. (ft): station Name: V Station Name: V kdj. (ft): j. (ft): j. (ft): station Name: V kdj. (ft): j. (ft): j. (ft): j. (ft): station Name: V vel? sobstructed? vel? bobstructed? buplicated ycs no	WUFF-SP VUFF-RG Yes Yes Flow Correct	No ditions fall None
Date: 4.13. [7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (if	me: WUFF-In USIA 2-15 No no gage at this station no gage at this station No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Tho' to any questions above, expl	Field Staff: b.B (a) Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions ta Grab S Field Staff:	Ample Visit	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V Adj. (ft): j. (ft): Station Name: V Adj. (ft): Station Name: V Adj. (ft): Station Name: V Vel? Station Name: V vel? bobstructed? Ke Velume (m) Duplicated yes no yes no	NUFF-SP VUFF-RG Yes Yes Flow/Com Rise Peak F Rise Peak F	No ditions fall None fall None
Date: 4.13. [7 Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: Notes/Visual Conditions: (if	me: WUFF-In USIA 2-15 No no gage at this station no gage at this station No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Tho' to any questions above, expl	Field Staff: b.B (a) Station Nar Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): 4 Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: lain why and remedial actions ta Grab S Field Staff:	A MUUIICA me: WUFF-Out H(3) 17/2.15 NO NO Yes NO	Coffset Before A Offset AfterAdj Measure Down S Offset Before A Offset AfterAdj Measure Down S Rain Gauge Le Rain Gauge Le Rain Gauge Un	Station Name: V Adj. (ft): j. (ft): Station Name: V Adj. (ft): Station Name: V Adj. (ft): i. (ft): Station Name: V vel? hobstructed? Ke Velume (m) Duplicated yes no yes no yes no	VUFF-SP VUFF-RG Yes Yes S Flow/Com Rise Peak F Rise Peak F Rise Peak F	No ditions fall None fall None fall None fall None

		FIELD L	og shiert	and address of the second second	and the second
Project Name: Up-	-Flo Filter	Project #:	13-05605-000		
Site Location: WSD	DOT TEST FACILITY	Client: H	ydro International		
Site ID: WUFF		Event ID:	20170419		
Site in. worr			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		CONSULTAN
illialia	1 11-0	A Cur	orm Visit	11111 DAVIN CON	
Date: 4/19/17	Time: 1100	Field Staff: A. SVE	NDCEN	Weather: LIGHT PAIN, Con	2 //200
Station Na	me: WUFF-In	Station Nam	e: WUFF-Out	Station Name: WUFF	-BP
Sampler Battery Volt. (V):		Sampler Battery Volt. (V):		Offset Before Adj. (ft):	_
Primary Device Level?	-Ver NO NA	Primary Device Level?	No No	Offset AfterAdj. (ft):	
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (8):	<u> </u>	Measure Down (ft):	
Offset AfterAdj. (ft):	- no flow gage at this station	Offset AfterAdj. (ft):	-		
Actual Pump Vol (ml):		Actual Pump Vol (ml)		Station Name: WUFF	-SP
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml)			
Pomp Vol After Adj. (ml):		Pump Vol After Adj. (ml)		Offset Before Adj. (ft):	
Intake Checked?	Yes Na	Intake Checked?	Ves No	Offset AfterAdj. (A):	
Desiccant Dry?	Tes No	Desiccant Dry?	Yes No	Measure Down (ft):	
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	No No		
Clean Bottle?	Yes No	Clean Bottle?	Yes No	Station Name: WUFF	RG
Pacing (cf):		Pacing (cf):		In Alexander Providence and the second states	
Ice Added?	No No	_ Ice Added?	Yes No		Yes No
Program Started?	Ves No	Program Started?	No No	Rain Gauge Unobstructed?	Na Na
Tubing Connected?		Tubing Connected?	No No	2)	
p11 sensor calibrated?	Rise Deak Fall Non	oH sensor calibrated? Flow Conditions:	Rise Peak Fall None	E C	
Date: 4[20]17	Time: 11:20	Post-St	orm Visit		
THE PROPERTY AND AND ADDRESS OF THE ADDRESS		1 1 1	ořm Visit	weather: partly claudy	1 520
Station Na	ime: WUFF-In	Field Staff: M Mil		Weather: partly Club dg Station Name: WUFF	1 52° -BP
	ume: WUFF-In	Field Staff: M Mill Station Nam	LEN e: WUFF-Out	Station Name: WUFF	the second s
Date/Time End:	ume: WUFF-In 4 19 17 - 22:\Z	Field Staff: M MyL Station Nam Date/Time End:	LEN	Station Name: WUFF Offset Before Adj. (ft):	the second s
Date/Time End: ≠ of Samples:	ume: WUFF-In	Date/Time End: # of Samples:	LEN e: WUFF-Out	Station Name: WUFF	the second s
Date/Time End: # of Samples: Sampled Without Error?	ume: WUFF-In 4 19 17 - 22:12 100 Mar No	Field Staff: Mull Station Nam Date/Time End: # of Samples: Sampled Without Error?	LEN e: WUFF-Out A)26117 - 4:10	Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft):	-BP
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft):	ume: WUFF-In 4/19/17 ~ 22:12 100	Field Staff: Mull Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft):	LEN e: WUFF-Out A)26117 - 4:10	Offset Before Adj. (ft):	-BP
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft):	ime: WUFF-In 4)19117 ~ 22:12 100 My No no gage at this station no gage at this station	Field Staff: Mull Station Nam Date/Time End: # of Samples: Sampled Without Error?	LEN e: WUFF-Out A)26117 - 4:10	Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft):	-BP
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L):	ime: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station 2-1	Field Staff: Multon Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft):	LEN e: WUFF-Out A)20(1)3 - 4:10 47 (6) No B	Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF	-BP
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition:	ime: WUFF-In 4)19117 ~ 22:12 100 My No no gage at this station no gage at this station	Field Staff: Multon Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L):	LEN e: WUFF-Out A)20(1)7 - 4:10 47 (B) No 	Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft):	-BP
Station Na Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	ime: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station 21 4r(s 9reg	Field Staff: Multon Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition:	LEN e: WUFF-Out A)20(1)3 - 4:10 A7 (2) No B LIGNT GRU Yes No	Station Name: WUFF Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	-BP -SP
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	time: WUFF-In $4 9 7 - 22:12$ $1 0 \circ$ $0 \circ$	Field Staff: M. Mill. Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (1.): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	LEN e: WUFF-Out A)26(1)3 - 4:19 A7 (2) No B LIGNT GIGU Yes No Yes No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF	-BP -SP -RG
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated?	ume: WUFF-In 4 19 17 - 22:12 100 $0 age at this station no gage at this station 100 age at this station 2-1 4rV - 9rC - 1 Ves Ro Ves Ro Ves Ro$	Field Staff: M. Mill. Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated?	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No 	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUFF Station Name: WUFF Rain Gauge Level?	-BP -SP -RG Yes No
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	ume: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station no gage at this station 2/1 Arts Ra 125 No Yes Ro Yes Ro Yes Ro Yes Ro No Yes Ro	Field Staff: M Mill Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No B 119 Mt grey Yes No Yes No Yes No Yes No No Yes No No Yes No No No Yes No No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF Rain Gauge Level?	-BP -SP -RG
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Dffset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? oH sensor calibrated? Flow Conditions:	ume: WUFF-In 4 19 17 - 22:12 100 $0 age at this station no gage at this station 100 age at this station 2-1 4rV - 9rC - 1 Ves Ro Ves Ro Ves Ro$	Field Staff: M Mill Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No B 119 Mt grey Yes No Yes No Yes No Yes No No Yes No No Yes No No No Yes No No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUFF Station Name: WUFF Rain Gauge Level?	-BP -SP -RG Yes No
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Dffset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? oH sensor calibrated? Flow Conditions:	ume: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station no gage at this station 2/1 Arts Ra 125 No Yes Ro Yes Ro Yes Ro Yes Ro No Yes Ro	Field Staff: M Mill Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No B 119 Mt grey Yes No Yes No Yes No Yes No No Yes No No Yes No No No Yes No No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUFF Station Name: WUFF Rain Gauge Level?	-BP -SP -RG Yes No
Date/Time End: # of Samples: Sampled Without Error? Difset Before Adj. (ft): Difset AfterAdj. (ft): Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? oH sensor calibrated? Plow Conditions;	ume: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station no gage at this station 2/1 Arts Ra 125 No Yes Ro Yes Ro Yes Ro Yes Ro No Yes Ro	Field Staff: M Mill Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions:	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No B 119 Mt grey Yes No Yes No Yes No Yes No No Yes No No Yes No No No Yes No No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUFF Station Name: WUFF Rain Gauge Level?	-BP -SP -RG Yes No
Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Dffset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? oH sensor calibrated? Flow Conditions:	ume: WUFF-In 4/19/17 ~ 22:12 100 My No no gage at this station no gage at this station no gage at this station 2/1 Arts Ra 125 No Yes Ro Yes Ro Yes Ro Yes Ro No Yes Ro	Field Staff: M. Mill. Station Nam Date/Time End: # of Samples: Sampled Without Error? Offset Before Adj. (ft): Offset AfterAdj. (ft): Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? pH sensor calibrated? Flow Conditions: ain why and remedial actions take	LEN e: WUFF-Out A)26 (1)3 - 4:19 A7 (2) No B 119 Mt grey Yes No Yes No Yes No Yes No No Yes No No Yes No No No Yes No No	Station Name: WUFF O Offset Before Adj. (ft): Offset AfterAdj. (ft): Mensure Down (ft): Station Name: WUFF Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUFF Station Name: WUFF Rain Gauge Level?	-BP -SP -RG Yes No

Date:	Time:	Field Staff:		Weather		1.22	
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
	3. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		HDPE Glass			yes no	Rise Peak Fall None
	Strate and a strate and		HDPE Glass	and the second		yes no	Rise Peak Fall None
			HDPE Glass		-	yes no	Rise Peak Fall None
			HDPE Glass		Strange - Carl	yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
		The American State of the State	HDPE Glass	13 100 07	10000	yes no	Rise Peak Fall None

	FIEND LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	
Site ID: WUFF	Event ID: 20170511	HERRERA ENVIRONMENTAL CONSULTANTS

		Pre-St	orm Visit	
Date: 5.10.17	Time: 10:00	Field Staff: M MU	len	Weather: SUNNY 68°
Station Na	ame: WUFF-In Station Name: WUFF-Out			Station Name: WUFF-BP
Target Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked?	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft). Target Pump Vol (ml)		Primary Device Level? Yes No Offset Before Adj. (ft):
Sample Line Rinsed? Clean Bottle?	No No	Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)		Station Name: WUFF-SP
Ice Added? Program Started? Tubing Connected? Flow Conditions:	Rise Peak Fall Nore	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	No Nos No Nos No Nos No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):
	U	Ice Added? Program Started?	Yes No Yes No Yes No	Station Name: WUFF-RG
		Tubing Connected? Flow Conditions:	Rise Peak Fall North	Rain Gauge Level? Yes No Rain Gauge Unobstructed? Yes No Yes No

	and the second s	Post-S	torm Visit		A STATE
Date: 5-12-17	Time: 11:00	Field Staff: M Mul	len	Weather: Sunny le	0°
Station Name	e: WUFF-In	Station Nan	ne: WUFF-Out	Station Name:	WUFF-BP
Date/Time End: ら パーキ # of Samples: Sampled Without Error?	21:50 56 (Ye) No	Date/Time End: 5°-((-)7 # of Samples: Sampled Without Error?	21:00 7-1 Re) No	Offset Before Adj. (ft): Offset AfterAdj. (ft):	
Est. Sample Vol (L): Visual Condition:	dry arey	Est. Sample Vol (L): Visual Condition:	2015	Station Name:	WUFF-SP
Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes Wa View No Yes Dia	Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	
Flow Conditions:	Rise Peak Fall Nm	Flow Conditions:	Rise Peak Fall North	Station Name: V	VUFF-RG
				Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No

Grab Sample Visit Date: 3.11.12 Time: 2-00 Field Staff: M Nuller Weather: Bottle Volume 580 # of Station Parameter Time pH Bottle Type Bottles (ml) Duplicated Flow Conditions Rise Peak Fall None HDPE Glass WUFF-In TPH NA 2 500 yes no HDPE Glass 2 Rise Peak Fall None WUFF-Out TPH NA 7.42 500 yes no 12 00 Rise Fire Fall None WUFF-In pН 7.87 Rise 🔂 Fall None
 WUFF-Out
 pH
 12-10

 Notes/Visual Conditions: (note any calibrations or maintenance on back)
 12:00

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	FIELD LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	
Site ID: WUFF	Event ID: 20170515	HERRERA ENVIRONMENTAL CONSULTANTS

		Pre-St	orm Visit	a state of the state of the state	CALL STREET
Date: 2017-25-12	Time: 15:00	Field Staff: 3 34	とと	Weather: PT CLON	.0-1
Station Na	Station Name: WUFF-In		e: WUFF-Out	Station Name:	WUFF-BP
Farget Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml):	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	ረደያ	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	Yes No
intake Checked? Sample Line Rinsed?	No No	Target Pump Vol (ml) Pump Vol Before Adj. (ml)	200		
Clean Bottle?	No No	Pump Vol After Adj. (ml)		Station Name:	: WUFF-SP
ice Added?	Ges No	Intake Checked?	Arts No	Offset Before Adj. (ft):	
Program Started?	😚 No	Desiccant Dry?	No No	Offset AfterAdj. (ft):	
Fubing Connected?	No No	Sample Line Rinsed?	ORs No	Measure Down (ft):	
Flow Conditions:	Rise Peak Fall None	Clean Bottle?	No No		
		Ice Added?	No No	Station Name:	WURF-RG
		Program Started?		Pair Gauss Law 19	Mag Ma
		Tubing Connected? Flow Conditions:	Rise Peak Fall	Rain Gauge Level?	Yes No Yes No

		Post-S	Storm Visit		and the second s
Date: 5.16.17	Time: 14.30	Field Staff: YW 4	MM	Weather:	
Station Na	me: WUFF-In	Station Na	ne: WUFF-Out	Station Name: W	UFF-BP
Date/Time End; # of Samples: Sampled Without Error?	90 0 0 0 0	# of Samples: Sampled Without Error?	90 No	Offset Before Adj. (ft): Offset AfterAdj. (ft):	
Est, Sample Vol (L): Visual Condition:	dart grey	Est. Sample Vol (L): Visual Condition:	light grey	Station Name: W	UFF-SP
Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No Yes No	Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No Yes No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	
Flow Conditions:	Rise Peak Fall Non	Flow Conditions:	Rise Peak Fall	Station Name: W	UFF-RG
				Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No
Notes/Visual Conditions: (i	f 'no' to any questions above, exp	lain why and remedial actions ta	iken)		

Date:	Time:	Field Staff:	Statistical Statistics	Contration to an a strain of the second		Weather:					-	-
Station	Parameter	Time	pH	Bottl	е Туре	# of Bottles	Bottle Volume	Duplicated	Fl	ow Co	nditio	DOS
WUFF-In	ТРН		NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	Non
WUFF-Out	TPH		NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	Non
WUFF-In	pH								Rise	Peak	Fall	Non
WUFF-Out	pH		S Vierry A	[]		A Carlos Carl	P.L.	and the	Ríse	Peak	Fall	Non

FIELD LOG SHEET **Project Name: Up-Flo Filter** Project #: 13-05605-000

Site Location: WSDOT TEST FACILITY

Site ID: WUFF

Client: Hydro International 20170608 **Event ID:**



		Pre-Stor	m Visit	A Carlos and a company	
Date: 6-7-17	Time: 17:00	Field Staff: M MULLEA	12 Winamire	Weather: SUNNY &).
Station N	ame: WUFF-In	Station Name:	WUFF-Out	Station Name:	WUFF-BP
Target Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked?	200 (Yes) No	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml)	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	Yes No
Sample Line Rinsed? Clean Bottle? Ice Added? Program Started? Tubing Connected? Flow Conditions:	Yes No Yes No Yes No Yes No Yes No	Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml) Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	Res No Res No Res No Res No	Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	WUFF-SP
TOW CONDITIONS:	Rise Peak Fall North	Ice Added? Program Started? Tubing Connected? Flow Conditions:	Yes No Yes No Yes No Rise Peak Fall Kone	Station Name: Rain Gauge Level? Rain Gauge Unobstructed?	WUFF-RG Yes No Yes No

Post-Storm Visit Date: 6-9-17 Time: 11=15 M MULEA Weather: partly sunny 580 Field Staff: Station Name: WUFF-In Station Name: WUFF-BP Station Name: WUFF-Out 12:33 Date/Time End: 6-8-17 Date/Time End: 6817 12:33 Offset Before Adj. (ft): # of Samples: 33 # of Samples: 42 Offset AfterAdj. (ft); Sampled Without Error? No Sampled Without Error? Yes Yes No 00 10 Est. Sample Vol (L): 9 Est. Sample Vol (L): Station Name: WUFE-SP light grey Visual Condition: Visual Condition: rk aren de Offset Before Adj. (ft): Yes **Bottles Replaced? Bottles Replaced?** Yes Sent to Lab? les No Sent to Lab? Offset AfterAdj. (ft): Yes No **Duplicate Sample?** Ves No **Duplicate Sample?** Yes (No) Measure Down (ft): Flow Conditions: Flow Conditions: Rise Peak Fall None Rise Peak Fall None) **Station Name: WUEF-RG** Rain Gauge Level? No Yes Rain Gauge Unobstructed? Yes No Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken) IN: sample error message

(ml) Duplicated	Flow Conditions
500 yes no	Rise Peak Fall None
500 yes no	Rise Peak Fall Non
	Rise Per Fall Non
	Rise Bank Fall Non
	500 yes no

	FIELD/LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	
Site ID: WUFF	Event ID: 20170615	HERRERA ENVIRONMENTAL CONSULTANTS

Site ID: WUFF

the seen of the party of the		Pre-St	orm Visit	and the second se
Date: 6-14.17	Time: 16:30	Field Staff: M Mulle	0	Weather: Junny 60'
Station Na	ame: WUFF-In	Station Nam	e: WURF-Out	Station Name: WUFF-BP
Target Pump Vol (ml)	200	Primary Device Level?	yes	Primary Device Level? Yes No
Pump Vol Before Adj. (ml):	200	Offset Before Adj. (ft):		Offset Before Adj. (ft):
Pump Vol After Adj. (ml):	200	Offset AfterAdj. (ft):	_	Offset AfterAdj. (ft): 📉 📉
Intake Checked?	No No	Target Pump Vol (ml)	200	
Sample Line Rinsed?	No No	Pump Vol Before Adj (ml)	280	Station Name: WUEF-SP
Clean Bottle?	No No	Pump Vol After Adj. (ml)	000	
ice Added?	Ves No	Intake Checked?	No No	Offset Before Adj. (ft):
Program Started?	Kes No	Desiccant Dry?	Fes No	Offset AfterAdj. (ft): 🔨
Tubing Connected?	Feg No	Sample Line Rinsed?	Feg No	Measure Down (ft):
Flow Conditions:	Rise Peak Fall Non	Clean Bottle?	No No	
)	Ice Added?	For No	Station Name: WUFF-RG
		Program Started?	Pa No	Diation Manual Were Ad
		Tubing Connected?	les No	Rain Gauge Level? Yes No
		Flow Conditions:	Rise Peak Fall None	Rain Gauge Unobstructed? X Yes No

open 1.5

		Post-	Storm Visit	
Date: 10-14-17	Time:	Field Staff: KW +1	MM	Weather: Cloudy 60°
Station Na	ime: WUFF-In	Station Na	me: WUFF-Out	Station Name: WUFE-BP
Date/Time End: # of Samples: Sampled Without Error?	6-10-17 00:38 23 No	Date/Time End: # of Samples: Sampled Without Error?	2.2 (Ya No	Offset Before Adj. (ft): Offset AfterAdj. (ft):
Est. Sample Vol (L): Visual Condition:	drk aren	Est. Sample Vol (L): Visual Condition:	very light area	Station Name: WUFF-SP
Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No Yes (No	Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No	Offset Before Adj. (ft) Offset AfterAdj. (ft): Measure Down (ft):
Flow Conditions:	Rise Peak Fall	Flow Conditions:	Rise Peak Fall None	Station Name: WUFF-RG
				Rain Gauge Level? Yes No Rain Gauge Unobstructed? Yes No

closed value

= 6/15/17	Time: 14:30	Field Staff: \	Latie	wingso.	ne	Weather:	light	ctos,	\sim	
Station	Parameter	Time	pH	Second Street	е Туре	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Cor	ditions
WUFF-In	ТРН	14:45	NA	HDPE	Glass	2	500	Ges no	Rise Ceal	Fall None
WUFF-Out	ТРН	14.30	NA	HDPE	Glass	2	500	fies no	Rise (Peak)	Fall None
WUFF-In	pH	14:50	7/14	ItD	LE.			NO	Rise 😡	Fall None
WUFF-Out	pH	14:55		JH I	JR.			NO	Rise Peak)	Fall None
es/Vis ual C onditions: (r	ote any calibrations or mainte	nance on back)							Ŭ	

	And the second second	FIELD LO)g sheet		
Project Name: Up-	Flo Filter	Project #:	13-05605-000		
Site Location: WSD	OT TEST FACILITY	Client: H	vdro International		
Site ID: WUFF		Event ID:	20171619	- 74	HERRER ENVIRONMENT CONSULTAN
	the second and	Pre-Sto	rm Visit		CONSDETAN
Date: 9/29/17	Time: 1115		S/M. Morras	Weather: OVCACAST w/	ulter stands
Station Na	me: WURF-In	Station Name	WUFF-Out	Station Name:	WUFF-BP
Farget Pump Vol (ml) 'ump Vol Before Adj. (ml): 'ump Vol After Adj. (ml): ntake Checked? Sample Line Rinsed? Clean Bottle? ce Added? 'rogram Started? 'ubing Connected? 'low Conditions:	200 Yes No Yes No Yes No Yes No Yes No Rise Pcak Fall None	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml) Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml) Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	200 200 Yes No Yes No Tel No No	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	Ver No WURR-SP
		Ice Added? Program Started?	Yes No Yes No	Station Name:	WUFF-RG
		Tubing Connected? Flow Conditions:	Yes No Rise Peak Fall None	Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No
4					

		Post-St	orm Visit		
Date: 10,18.17	Time: 18:45	Field Staff: MMM	llen	Weather: rainy (0° .
Station Na	me: WUFF-In	Station Name	e: WUFF-Out	Station Name	WURF-BP
Date/Time End: # of Samples: Sampled Without Error?	10.16.17 18:45 37 No	Date/Time End: (O # of Samples Sampled Without Error?	16.17 16:15 37 Res No	Offset Before Adj. (ft): Offset AfterAdj. (ft):	7
Est. Sample Vol (L): Visual Condition:	drik aren	Est. Sample Vol (L): Visual Condition	dren	Station Name	WUFF-SP
Bottles Replaced? Sent to Lab? Duplicate Sample?	No Yes	Bottles Replaced? Sent to Lab? Duplicate Sample?	No Ves (No)	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	/
Flow Conditions:	Rise () Fall None	Flow Conditions:	Rise Fall None	Station Name	WUFF-RG
				Rain Gauge Level? Rain Gauge Unobstructed?	Yes No
Notes/Visual Conditions: (i	f 'no' to any questions above, expla	•	-	PM, see picti	ires

Grab Sample Visit Date: Time: Field Staff: Weather: # of Bottle Volume Station Parameter Time Ba Bottle Type Bottles **Flow Conditions** (ml) Dupl HDPE Glass Rise Peak Fall None WUFF-In TPH 2 500 yes no NA HDPE Glass WUFF-Out TPH 2 500 yes no Rise Peak Fall None NA Rise Peak Fall None WUFF-In pН
 WUFF-Out
 pH

 Notes/Visual Conditions: (note any calibrations or maintenance on back)
 Rise Peak Fall None

Duel at Manual II.	rie rite		OG SHEET		
	-Flo Filter	State State State	13-05605-000		
Site Location: WSI	DOT TEST FACILITY	Client: H	lydro International		HERRER
Site ID: WUFF		Event ID:	2017/104		ENVIRONMENT
		and the second se	orm Visit		
Date: 11.3.17	Time: 16:40	Field Staff: M Mu	llen	Weather: Cloudy 40*	1.1
Station Na	me: WUFF-In	Station Nam	e: WUFF-Out	Station Name: WUF	F-BP
Target Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked? Sample Line Rinsed? Clean Bottle?	200 	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml) Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUR	Yes No
Ice Added? Program Started? Tubing Connected? Flow Conditions:	Ver No Ver No Ver No Rise Peak Fall Nade	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle? Ice Added?	Offes No Cass No Cass No Cass No Value No Value No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	
		Program Started? Tubing Connected? Flow Conditions:	Kes No Fes No Rise Peak Foll None	Station Name: WUFI Rain Gauge Level? Rain Gauge Unobstructed?	F-RG Yes No Yes No
	1	open 1			
111.1	Time: 9:30	the second se	orm Visit	Lucitor Cot	
Date: 11.6.17	AND	Field Staff: K-Wingfor	Contraction of the second s	Weather: SUNNU SO	
a hard a second s	me: WUFF-In		e: WUFF-Out	Station Name: WUFI	F-BP
Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Nes No Nes No No No Yes No Yes No Rise Peak Full Node	Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Ves No Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Non	Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUR Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUR Rain Gauge Level?	
Notes/Visual Conditions: (ii	, uo, to and directions apove' exbl $b \mid \sigma$	ain why and remedial actions take		Rain Gauge Unobstructed?	Yes No

		a spine the	Grab Sa	mple Visit		100	Asson Street		
ate:	Time:	Field Staff				Weather:		_	
Station	Parameter	Time	pH	Bottl	e Type	# of Bottles	Bottie Volume (ml)	Duplicated	Flow Conditions
WUFF-In	TPH		NA	HDPE	Glass	2	500	yes no	Rise Peak Fall Non
WUFF-Out	ТРН		NA	HDPE	Glass	2	500	yes no	Rise Peak Fall Non
WUFF-In	pH								Rise Peak Fall Non
WUFF-Out	pH		Sector Com		112-22-2	11 11 12 13			Rise Peak Fall Non
	(note any calibrations or mainte	mance on back)				1.			ADE FEIA FUIL FUIL
									24

Pre-Storm Visit Value Date: 10.710-11 Time: 10.710-11 Field Staff: M Mulley Weather: FARA COLSPAN Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Target Pump Vol (ml) 200 Primary Device Level? Offset Refore Adj. (ml) Diffset Refore Adj. (ml) Offset Refore Adj. (ml) Station Name: WUFF-SP Pump Vol After Adj. (ml) Station Name: WUFF-SP Pump Vol Refore Adj. (ml) Station Name: WUFF-Refore Adj. (ml) Program Started? No Station Name: WUFF-Refore Adj. (ml) Pome Class Bother No Station Name: WUFF-Refore Adj. (ml) Yea </th <th></th> <th></th> <th>RIERD F</th> <th>OG SHEET</th> <th></th> <th></th>			RIERD F	OG SHEET			
Site ID: WUFF Event ID: 20[7][02. HERE Date: 10:101 Time: 10:200 Pre-Storm Visit Colspan="2">Colspan="2">Colspan="2" Date: 10:101 Date: 10:101 Colspan="2" Pre-Storm Visit Vestion Name: WUFF-BP Field Staff: M McCl(A Weather: FAGA Colspan="2" Colspan="2" Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Finary Device Level? Offer Add (m) Colspan="2" Colspan="2" Station Name: WUFF-BP Primy Vol (add (m) Station Name: WUFF-SP Colspan="2" Station Name: WUFF-SP Prime Vol (Add (m) Station Name: WUFF-SP Prime Vol (Add (m) Station Name: WUFF-SP Prime Vol (Add P No Station Name: WUFF-SP Prime Vol (Add P No Station Name: WUFF-SP Prime Vol (Add P No <th< td=""><td>Project Name: Up</td><td>-Flo Filter</td><td>Project #:</td><td>13-05605-000</td><td></td><td></td></th<>	Project Name: Up	-Flo Filter	Project #:	13-05605-000			
Pre-Storm Visit Visit Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-In Station Name: WUFF-Out Primary Device Level? Offer Level? Offer Level? No Station Name: WUFF-SP Promp Vol Refer Adj. (m) No Offer Level? No Date: No Promp Vol Refer Adj. (m) No Offer Level? No Promp Vol Refer Adj. (m) No Offer Level? No Date: No Promp Vol Refer Adj. (m) No Offer Level? Opern 1.75 hrmS <td>Site Location: WSI</td> <td>DOT TEST FACILITY</td> <td>Client: H</td> <td>lydro International</td> <td></td> <td></td>	Site Location: WSI	DOT TEST FACILITY	Client: H	lydro International			
Pre-Storm Visit Value Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Primary Device Level? Offer Before Adj. (11): Offer Before Adj. (11): Offer Before Adj. (11): Offer Adj. (mary Device Level? No Offer Adj. (mary Device Level? Offer Adj. (mary Device Level? Offer Adj. (mary Device Level? <th c<="" td=""><td>Site ID: WUFF</td><td>24 - H D</td><td>Event ID:</td><td>20171102</td><td></td><td>ENVIRONMEN CONSULTA</td></th>	<td>Site ID: WUFF</td> <td>24 - H D</td> <td>Event ID:</td> <td>20171102</td> <td></td> <td>ENVIRONMEN CONSULTA</td>	Site ID: WUFF	24 - H D	Event ID:	20171102		ENVIRONMEN CONSULTA
Index 100 Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Farget Pump Vol (ml) 200 Primary Device Level? Primary Device Level? Yes Dump Vol Before Adj. (ml) 00ffset Before Adj. (ml) 00ffset Before Adj. (ml) 00ffset Before Adj. (ml) 00ffset AfterAdj. (ml) 00ffset AfterAdj	11.01.17	9:00	Pre-St	orm Visit			
Target Pump Vol (ml) 200 Primary Device Level? Primary Device Level? Primary Device Level? Yes Pump Vol Aner Adj (ml) 0ffset Before Adj (nl) 0ffset Before Adj (nl) 0ffset AfterAdj (ft) 0ffse	Date: 10, TO.TE	Time: 19:00	Field Staff: M Mu	rdez	Weather: FAIA9 60°		
hump Vol Belore Adj. (m):	Station Na	me: WUFF-In	Station Nam	e: WUFF-Out	Station Name: WUI	FF-BP	
Pump Vol After Adj (ml):		ALCONTRACTOR AND		yes		Yes No	
Protected? Protected? Proprior		-					
Promp Vol Before Adj. (ml) Station Name: WUFF-SP Item Both? No Promp Vol After Adj. (ml) No Program Started? No Desiceant Dry? No Offset Before Adj. (ft): Vabing Connected? No Bample Line Rinsed? No Measure Down (ft): Now Conditions: No Sample Line Rinsed? No Measure Down (ft): Now Conditions: No Sample Line Rinsed? No Measure Down (ft): Now Conditions: Rise Fail Not Station Name: WUFF-RG Tubing Connected? No Rain Gauge Level? Yes Flow Conditions: Rise Foil Not Rain Gauge Unobstructed? Yes Station Name: WUFF-In Station Name: WUFF-BP No Station Name: WUFF-BP Date: 11.2.17 Time: 10.2.20 Field Staff: Moll PM Weather: C10U did 40° Station Name: WUFF-In Station Name: WUFF-BP Date/Time End: 11.2.13 11.0.11/2.2 Offset Before Adj. (ft): Offset Before Adj. (ft): Offset Merchadj. (ft): Offset AfterAdj. (ft): Item Add Station Name: WUFF-SP No	ump Vol After Adj. (ml):		Offset AfterAdj. (ft):		Offset AfterAdj. (ft):		
Deam Bothe? Do Pomp Vol After Adj (m) Deam Vol After Adj (m) ce Added? No Intake Checked? No Offset Before Adj, (f): Program Started? No Sample Line Rinsed? No Offset AfterAdj, (f): Tow Conditions: Rise Fall No Station Name: WUFF-RG Program Started? No Station Name: WUFF-RG Program Started? No Rain Gauge Level? Yes Program Started? No Rain Gauge Level? Yes Flow Conditions: Rise Foll No Rain Gauge Unobstructed? Yes Program Started? No Rain Gauge Unobstructed? Yes Yes Date: 11-1.1 Time: 10: 2.0 Field Staff: Mo Ul PM Weather: CIOU OL 4'0° Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Date/Time End: 11: 2.17 11: 0.1 / 2.0 Offset Before Adj, (f): Offset AfterAdj, (f): of Samples: so Sampled Without Error? No Sampled Without Error? No Station Name: WUFF-SP Station Name: <		No No	Target Pump Vol (ml)	200			
Perm Vol After Adj. (m) No Perm Vol After Adj. (m) ce Added? No Intake Checked? No Offset Before Adj. (ft): Tubing Connected? No Sample Line Rinsed? No Measure Down (ft): Tow Conditions: Ruse Fall Nino Clean Bottle? No Measure Down (ft): Tow Conditions: Ruse Fall Nino Clean Bottle? No Measure Down (ft): Tow Conditions: Ruse Fall Nino Clean Bottle? No Measure Down (ft): Tow Conditions: Ruse Fall Nino Clean Bottle? No Rain Gauge Level? Yes Program Started? No Rain Gauge Level? Yes Rain Gauge Unobstructed? Yes Plow Conditions: Rise Foll Nino Rain Gauge Unobstructed? Yes Date: 1.2.17 Time: 16:2.20 Field Staff: Mo Ul (M) Weather: Cloud 4 0° Station Name: VUER-Out Station Name: WUFF-BP Station Name: WUFF-BP Station Name: WUFF-BP Date/Time End: 11.2.17 11.0.1/2.2 Offset AfterAdj. (ft):	ample Line Rinsed?	No No	Pump Vol Before Adj. (ml)		Station Name: WIJ	FF-SP	
Program Started? No Desiccant Dry? No Offset AfterAdj. (ft): Ubing Connected? No Sample Line Rinsed? No Measure Down (ft): Bow Conditions: Rise Foll Non Sample Line Rinsed? No Bow Conditions: Rise Foll Non Station Name: WUFF-RG Program Started? No Station Name: WUFF-RG Tubing Connected? No Rain Gauge Level? Yes Program Started? No Rain Gauge Unobstructed? Yes Date: 1.1.7.5 hurn.S Rain Gauge Unobstructed? Yes Date: 1.1.7.5 Field Staff: MoUle M Weather: (1000000000000000000000000000000000000	Ilean Bottle?		Pump Vol After Adj. (ml)			and the second	
Pathing Connected? No Sample Line Rinsed? No Measure Down (R): Tow Conditions: Rise Full Non Clean Bottle? No Station Name: WUFF-RG Tow Conditions: Rise Full Non Station Name: WUFF-RG No Station Name: WUFF-RG Tubing Connected? No Rain Gauge Level? Yes Yes Flow Conditions: Rise Foul Non Rain Gauge Unobstructed? Yes Date: [].1.1.17 Time: [].2.20 Field Staff: M ULLPA Weather: CIOUQU 4:0° Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Date: [].2.17 []:0.4.02 Date/Time End: []:2.17 []:0.12.20 Offset Before Adj. (ft):			Intake Checked?				
Prove Conditions: Rise Fall form Clean Bottle? No No Station Name: WUFF-RG Program Started? No No Rain Gauge Level? Yes Tobing Connected? No Rain Gauge Level? Yes Flow Conditions: Rise Foll No Rain Gauge Unobstructed? Yes Date: 11.1.7 Time: 6.2.20 Field Staff: M ULL M Weather: CIDUD CL 40° Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Date/Time End: 11.2.17 11:0A:02 Date/Time End: 11.2.14 11:01:22 Offset AfterAdj. (ft):	Program Started?	No No	Desiccant Dry?	Yes No	Offset AfterAdj. (ft):		
Ice Added? No Station Name: WUFF-RG Program Started? No Rain Gauge Level? Yes Tubing Connected? No Rain Gauge Unobstructed? Yes Plow Conditions: Rise Fall Net Rain Gauge Unobstructed? Yes Date: 1.75 turns? No Rain Gauge Unobstructed? Yes Date: 1.75 turns? Station Name: WUFF-SP Station Name: WUFF-BP Date: 1.2.17 Time: 1:0.2.17 Date/Time End: 1.2.17 11:0.122 Offset AferAdj. (ft): Date/Time End: 1.2.17 1:0.4.20 Date/Time End: 1/2.17 11:0.122 Offset AferAdj. (ft): Offsamples: of Samples: of Samples: Imple Vol (L): Station Name: WUFF-SP Station to Lab? No Bottles Replaced? Rob Offset AferAdj. (ft): Imple Vol (L): Duplicate Sample? Ko Duplicate Sample? Ko Offset AferAdj. (ft): Imple Vol (L): Imple Vol (L): <th< td=""><td>Tubing Connected?</td><td>No No</td><td>Sample Line Rinsed?</td><td>No No</td><td>Measure Down (ft):</td><td></td></th<>	Tubing Connected?	No No	Sample Line Rinsed?	No No	Measure Down (ft):		
Station Name: WUFF-RC Program Started? No Rain Gauge Level? Program Started? No Rain Gauge Level? Yes Plow Conditions: Rise No Rain Gauge Unobstructed? Yes Plow Conditions: Rise No Rain Gauge Unobstructed? Yes Open 1.75 turn S Station Name: WUFF-RC Station Name: WUFF-In Station Name: WUFF-Dut Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (h): Offset AfterAdj. (h): Offset AfterAdj. (h): Offset AfterAdj. (h): Offset Septore Adj. (h): Offset AfterAdj. (h): Date/Time End: 11.2.17 11.01/2.2 Offset AfterAdj. (h):	Tow Conditions:	Rise Fall Non	Clean Bottle?	No No			
Program Started? Tubing Connected? Flow Conditions: Rise Soft Fall Not Rain Gauge Level? Rain Gauge Unobstructed? Yes Rain Gauge Unobstructed? Yes Rain Gauge Unobstructed? Yes Rain Gauge Unobstructed? Yes Rain Gauge Unobstructed? Yes Copen 1.75 turn S Station Name: WUFF-In Station Name: WUFF-In Station Name: WUFF-In Station Name: WUFF-In Station Name: WUFF-BP Offset Before Adj. (ft): of Samples Sampled Without Error? Sts. Sample Vol (L): Station Name: WUFF-SP Station Name: W			Ice Added?	No No	Station Name: WIII	RE-RC	
Flow Conditions: Rise Rise <td></td> <td></td> <td>Program Started?</td> <td>No No</td> <td>oution trainer if or</td> <td>1. 1.0</td>			Program Started?	No No	oution trainer if or	1. 1.0	
Post-Storm Visit Post-Storm Visit Date: 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			Tubing Connected?		Rain Gauge Level?	Yes No	
Mate: I.I.I.T Time: I.I.I.T Field Staff: MULLEM Weather: IOUDE 40° Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP Mate/Time End: II.I.I.A.:02 Date/Time End: II.I.I.A.:02 Date/Time End: II.I.I.I.O.I.I.Z Offset Before Adj. (ft):			1		/		
Station Name: WUFF-In Station Name: WUFF-Out Station Name: WUFF-BP ate/Time End: 11/2,17 11:0A:02 Date/Time End: 11/2,17 01/22 of Samples: ampled Without Error? fres No Sampled Without Error? Offset AfterAdj. (ft): st. Sample Vol (L): isual Condition: isual Condition: isual Condition: Image: WUFF-SP ottles Replaced? Yes No Bottles Replaced? Pate/Time End: 11/2,17 intermediate Condition: Yes No Sent to Lab? Sent to Lab? Offset AfterAdj. (ft): uplicate Sample? No Duplicate Sample? Yes No Measure Down (ft):		oper	n 1.75 turns				
Date/Time End: 11.2.17 11:0A:02 Date/Time End: 11.2.17 11:01:22 Offset Before Adj. (ft): of Samples: * of Samples: * of Samples: 0 Offset AfterAdj. (ft): 0 sampled Without Error? fres No Sampled Without Error? 12 Station Name: WUFF-SP Sample Vol (L): fres No Sample Vol (L): 12 Station Name: WUFF-SP Visual Condition: Visual Condition: Visual Condition: No Offset Before Adj. (ft): 12 No Bottles Replaced? Yes No Bottles Replaced? No Offset AfterAdj. (ft): uent to Lab? Yes No Sent to Lab? No Offset AfterAdj. (ft): Duplicate Sample? Yes No Duplicate Sample? Yes No		oper	Post-St				
of Samples: * of Samples: 0 Offset AfterAdj. (ft): Sampled Without Error? Ives No Sampled Without Error? Est. Sample Vol (L): Visual Condition: Visual Condition: Visual Condition: Arrow Pressor No Bottles Replaced? No Sent to Lab? Sent to Lab? Ves No Sent to Lab? Offset AfterAdj. (ft): Duplicate Sample? No Duplicate Sample? Yes No		Time: 1 (g: 2-0	Post-St		includer: Chee Bret	12 allatone	
King No Sampled Without Error? Visual Condition: Station Name: WUFF-SP Station Name: WUFF-SP Station Name: WUFF-SP No Station Name: WUFF		Time: 16:20	Field Staff: M M U Station Nam	Men	includer: Chee Bret	(California)	
Station Name: WUFF-SP Visual Condition: V	Station Na	Time: 16:20	Field Staff: M MU Station Nam Date/Time End:	NUFR-Out	Station Name: WUI Offset Before Adj. (ft):	Contractor and	
Arrival Condition: Arrival Condition: No No No station Name: WOFF-SP station Name	Station Na Date/Time End:	Time: 16:20 me: WUFF-In 11.2.17 11:04:02	Field Staff: M MU Station Nam Date/Time End:	NUFR-Out	Station Name: WUI Offset Before Adj. (ft):	Contractor and	
Visual Condition: Visual Condition: Visual Condition: Bottles Replaced? Visual Condition: Visual Condition: States Replaced? Visual Condition: Visual Condition: Interview No Bottles Replaced? Visual Condition: States Replaced? Visual Condition: Visual Condition: Interview No Bottles Replaced? Visual Condition: States Replaced? Visual Condition: Visual Condition:	Station Na Date/Time End: # of Samples:	Time: 16:20 me: WUFF-In 11:2,17 11:0A:00 (Yes) No	Field Staff: MO Station Nam Date/Time End: 4 # of Samples:	11 PM e: WUFR-Out 13, 17 11: 01:22 (00 (Ns No	Station Name: WUI Offset Before Adj. (ft):	Contractor and	
Sent to Lab? <u>Yes No</u> Sent to Lab? <u>Yes No</u> Offset AfterAdj (ft): Duplicate Sample? <u>Yes No</u> Duplicate Sample? <u>Yes No</u> Measure Down (ft):	Station Na Date/Time End: ø of Samples: Sampled Without Error?	Time: 1 (0:20 Ime: WUFF-In 11,2,17 11:0A:00 (Yes) No ()	Field Staff: MO Station Nam Date/Time End: 4 # of Samples: Sampled Without Error?	11 PM 12.17 11:01:22 100 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft):	FF-BP	
Sent to Lab? <u>Yes No</u> Sent to Lab? <u>Yes No</u> Offset AfterAdj (ft): Duplicate Sample? <u>Yes No</u> Duplicate Sample? <u>Yes No</u> Measure Down (ft):	Station Na Date/Time End: ø of Samples: Sampled Without Error? Est. Sample Vol (L):	Time: 16:20 me: WUFF-In 11,2,17 11:0A:00 (Yes) No 9 0174 9749	Field Staff: MO Station Nam Date/Time End: 4 # of Samples: Sampled Without Error? Est. Sample Vol (L):	11 PM 12.17 11:01:22 100 12 12 12 12 12 12 12 12 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft):	FF-BP	
	Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition:	Time: 16:20 me: WUFF-In 11:2,17 11:04:00 (Yes) No AFF-9704 Yes) No	Post-St Field Staff: M U Station Nam Date/Time End: 4 # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition:	11 PM 12.17 11:01:22 100 12 12 12 12 12 12 12 12 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI	FF-BP	
	Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced?	Time: 16:20 Ime: WUFF-In 11:2,17 11:0A:00 (Yes) No Yes) No Yes No Yes No	Post-St Field Staff: MO Station Nam Date/Time End: 1 # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced?	11 PM 12.17 11:01:22 100 12 12 12 12 12 12 12 12 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI Offset Before Adj. (ft):	FF-BP	
Tow Conditions: Rise Feak Fall None Flow Conditions: Rise Peak Fall None Station Name: WUFF-RG	Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab?	Time: 16:20 Ime: WUFF-In 11:2,17 11:0A:00 (Yes) No Yes) No Yes No Yes No	Post-St Field Staff: M U Station Nam Date/Time End: 4 # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	11 PM 12.17 11:01:22 100 12 12 12 12 12 12 12 12 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft):	FF-BP	
Rain Gauge Level? Yes	Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	Time: 16:20 Ime: WUFF-In 11:2,17 11:0A:00 (Yes) No Yes) No Yes No Yes No	Post-St Field Staff: M U Station Nam Date/Time End: 4 # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	11 PM 12.17 11:01:22 100 12 12 12 12 12 12 12 12 12 12	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset Offset AfterAdj. (ft): Offset Defore Adj. (ft):	FF-BP FF-SP	
Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)	Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	Time: 1 (0:20 me: WUFF-In 11:2.17 11:0A:00 (Yes) No Yes No Yes No Yes No	Post-St Field Staff: M U Station Nam Date/Time End: 4 # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	11 PM 12.17 11:01:22 100 12. 12. 12. 12. 12. 12. 13.17 01:22 12. 12. 13.17 01:22 12. 12. 13.17 01:22 12. 12. 13.17 01:22 12. 12. 13.17 01:22 12. 13.17 01:22 13.17 01:22 14.01:22 15	Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: WUI Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUI	FF-BP FF-SP FF-RG	

			Grab Sar	nple Visit	1111	CARL HAR			
Date:	Time:	Field Staff:		1.		Weather:	in the	0.60 102 0 =	
Station	Parameter	Time	pH	Bottle	Туре	# of Bottles	Bottle Volume	Duplicated.	Flow Conditions
WUFF-In	ТРН	13.30	NA	HDPE	Class	2	500	yes 👩	Rise Peak 👰 None
WUFF-Out	ТРН	13:30	NA	HDPE	Glass	2	500	yes on	Rise Peak 🔯 Non
WUFF-In	pH	214:00	712		A	NA	NA	No	Rise Peak 🕑 Non
WUFF-Out	pH	7414:00	7.11		NA	NA	NA	No	Rise Peak 🐻 Non

lotes/Visual Conditions: (note any calibrations or maintenance on back)

記録

	FIELD LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	

and the second			orm Visit	
Date: 11-6-17	Time: 10:30	Field Staff: K- Wington	. MMMARN	Weather: Svnny SO ^a
Station Nat	me: WUFF-In	Station Nam	e: WUFE-Out	Station Name: WURF-BP
arget Pump Vol (ml) ump Vol Before Adj. (ml) ump Vol After Adj. (ml): attake Checked? ample Line Rinsed? lean Bottle? ee Added? rogram Started? ubing Connected? low Conditions:	200 No No No Yes No Yes No Rise Peak Fall Com	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml) Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml) Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle? Ice Added? Program Started?	200 200 (e) No (e) No (e) No (e) No (e) No Yes (No) (f) No	Primary Device Level? Yes No Offset Before Adj. (ft):
Nies a	no re adde	Tubing Connected? Flow Conditions:	Rise Prok Fall Nort	Rain Gauge Level? Yes No Rain Gauge Unobstructed? Yes No Yes No
102 11,617	no ice adden neid-to o valve is close	How Conditions:	Rise Prok Fall Non	Rain Gauge Unobstructed? Yes No \$ replaced tubing collected
	need-to o value is close	Flow Conditions: d idd before St id -> need Post-St	Rise Prok Fall Non	Rain Gauge Unobstructed? Yes No & replaced tubing collected blacks.
ate: 11-10-17	nerd-to a valve 15 close Time: 10:00	Flow Conditions: d d before St d -> need Post-St Field Staff: M Multi	Rise Prok Fall Non Tarin to apen value to musit	Rain Gauge Unobstructed? Yes No & replaced tubing collected blacks. Weather: Cloudy 60°
ate: 11.10.17 Station Nag	need-to o value is close	Flow Conditions: d d before St d -> need Post-St Field Staff: M Multi Station Nam	Rise Prok Fall Non	Rain Gauge Unobstructed? Yes No & replaced tubing collected blacks.

Grab Sample Visit										1.50		
Date:	Time:	Field Staff			Concernence de la conce	Weather:						
Station	Parameter TPH	Parameter Time	Time pH NA	Bottle	Bottle Type		Bottle Volume (ml)	Duplicated	Fl	ow Co	nditi	ons
WUFF-In				A HDPE	Glass	2	500	yes no	Rise	Peak	Fail	None
WUFF-Out	ТРН		NA	HDPE	HDPE Glass		2 500	yes no	Rise	Peak	Fall	None
WUFF-In	pH								Rise	Peak	Fall	None
WUFF-Out	pH					0			Rise	Peak	Fall	None

Notes/Visual Conditions: (note any calibrations or maintenance on back)

	a second second second	FIELD	LOG SHEET		
Project Name: Up	-Flo Filter	Project #:	13-05605-000		
Site Location: WSI	DOT TEST FACILITY	Client:	Hydro International		
Site ID: WUFF		Event ID:	A	2	HERRER
			201.111		CONSULTAN
Date: 11 10.17	Time: 10:00	1	torm Visit	sland - Car	
			lun	Weather: cloudy (all	
	ime: WUFF-In		ne: WUFF-Out	Station Name: WUFF-	BP
Farget Pump Vol (ml)	200	Primary Device Level?	yes		les No
ump Vol Before Adj. (ml):		Offset Before Adj. (ft):		Offset Before Adj. (ft):	
'ump Vol After Adj. (ml): ntake Checked?	Ves No	Offset AfterAdj. (ft):	-	Offset AfterAdj. (ft):	
ample Line Rinsed?	No No	Target Pump Vol (ml) Pump Vol Before Adj. (ml)	200		-
lean Bottle?	No No	Pump Vol After Adj. (ml)		Station Name: WUFF-	SP
ce Added?	No No	Intake Checked?	Wes No	Offset Before Adj. (ft):	
Program Started?	No No	Desiccant Dry?	Tes No	Offset AfterAdi, (ft):	
ubing Connected?	Ves No	Sample Line Rinsed?	Fes No	Measure Down (ft):	
low Conditions:	Rise Peak Fall None	Clean Bottle?	Pas No		
		Ice Added?	Ses No		
		Program Started?	No No	Station Name: WUFF-	RG
		Tubing Connected?	Ves No	Rain Gauge Level?	'es No
		Flow Conditions:	Rise Peak Fall Kon		'es No
	need -	to calibrate a	ut weir		
	need -	to calibrate a	ut weir		
11 . 2 14		Post-S	torm Visit		
Nate: 11-13.17	Time: 13:06	Post-S Field Staff: MMUI	torm Visit	Weather: cloudy, windy	
the second s	Time: 13:06 me: WUFF-In	Post-S Field Staff: MMUI	torm Visit	Station Name: WUFF-	
Station Na	Time: 13:06	Post-S Field Staff: MMUI	torm Visit	Station Name: WUFF-	
Station Na ate/Time End: 1 of Samples:	Time: 13:06 me: WUFF-In 1.12:11 9:43	Post-S Field Staff: MMUI Station Nam	torm Visit		
Station Na ate/Time End: 1 of Samples: ampled Without Error?	Time: 13:00 me: WUKF-In 1.12:11 9:43	Post-S Field Staff: M M I Station Nam Date/Time End: * of Samples: Sampled Without Error?	torm Visit	Station Name: WUFF-	
Station Na ate/Time End: 1 of Samples: ampled Without Error? st. Sample Vol (L):	Time: 13:00 me: WUFF-In 1-12:17 9:43	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L):	torm Visit	Station Name: WUFF- Offset Before Adj. (ft): Offset AfterAdj. (ft):	BP
Station Na ate/Time End: If of Samples: ampled Without Error? st. Sample Vol (L): isual Condition:	Time: 13:06 me: WUFF-In 1.12:17 9:43 	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition:	torm Visit len le: WUFF-Out 1.12.17.9:4 19 19 19 19 19	Station Name: WUFF- Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-	BP
Station Na ate/Time End: If of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced?	Time: 13:00 me: WUFF-In I-12:11 9:43	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced?	torm Visit len le: WUFF-Out l1.12.17.9:4 TO No Jught-gray No	Station Name: WUFF- Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF- Offset Before Adj. (ft):	BP
Station Na ate/Time End: If of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab?	Time: 13:00 me: WUFF-In 1.12:11 9:43 	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	torm Visit I Cn II: IZ: 17 9:4 II: IZ: 17 9:4 II: IZ: No II: II: IZ: No No No No No No	Station Name: WUFF- Offset Before Adj. (ft):	BP
Station Na ate/Time End: If of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample?	Time: 13:06 me: WUFF-In 1-12:11 9:43 1.12:11 9:43 1.12:12 No 2 No No Yes No	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	torm Visit	Station Name: WUFF- Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF- Offset Before Adj. (ft):	BP
Station Na ate/Time End: If of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample?	Time: 13:00 me: WUFF-In 1.12:11 9:43	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	torm Visit I Cn II: IZ: 17 9:4 II: IZ: 17 9:4 II: IZ: No II: II: IZ: No No No No No No	Station Name: WUFF- Offset Before Adj. (ft):	BP SP
Station Na	Time: 13:06 me: WUFF-In 1-12:11 9:43 1.12:11 9:43 1.12:12 No 2 No No Yes No	Post-S Field Staff: M M U I Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	torm Visit	Station Name: WUFF-1 Offset Before Adj. (ft):	BP SP RG es No
Station Na ate/Time End: of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample? low Conditions:	Time: 13:00 me: WUFF-In 1. 12:11 9:43 	Post-S Field Staff: MMUI Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station Name: WUFF-1 Offset Before Adj. (ft):	BP SP RG
Station Na ate/Time End: of Samples: ampled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample? low Conditions:	Time: 13:06 me: WUFF-In 1-12:11 9:43 1.12:11 9:43 1.12:12 No 2 No No Yes No	Post-S Field Staff: MMUI Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station Name: WUFF-1 Offset Before Adj. (ft):	BP SP RG es No
Station Na ate/Time End: [1] of Samples: impled Without Error? it. Sample Vol (L): sual Condition: ottles Replaced? int to Lab? aplicate Sample? ow Conditions:	Time: 13:00 me: WUFF-In 1. 12:11 9:43 	Post-S Field Staff: MMUI Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station Name: WUFF-1 Offset Before Adj. (ft):	BP SP RG es No

Date:	Time:	Field Staff:				Weather:						
Station	Parameter	Time	pH	Bottle Type		# of Bottles	Bottle Volume (ml)	Duplicated	Flow Cond		nditie	ons
WUFF-In	ТРН		NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	None
WUFF-Out	ТРН		NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	None
WUFF-In	pH				3008				Rise	Peak	Fall	None
WUFF-Out	pH			11-0-1					Rise	Peak	Fall	None

	FIELD LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	

Site Location: WSDOT TEST FACILITY

Client: Hydro International 2/12/112



Site	ID:	W	UFF

Date: 11.13.17	Time: 13:00	Field Staff: M. M.	orm Visit	Weather: cloudy , h	undy 58.
	ame: WUFF-In		e: WUFF-Out	Station Name:	
Carget Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml):	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	-yrs 	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	Yes No
ntake Checked? Jample Line Rinsed? Clean Bottle?	No No No	Target Pump Vol (ml) Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)	200	Station Name:	WUFF-SP
re Added? rogram Started? ubing Connected? low Conditions:	No No No Rise Peak Fall	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle? Ice Added?	No No No No No No No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name:	WURF-RG
		Program Started? Tubing Connected?	Yes No No		Yes No
		Flow Conditions: Open 425 1.75	Rise Peak Fall Nen	Rain Gauge Level? Rain Gauge Unobstructed?	Ves No
		open 125 1.75 Post-St	Rise Peak Fail Non	Rain Gauge Unobstructed?	¥s No
Date: 11.14.17	Time: 12-:45	open 125 1.75 Post-St	Rise Peak Fall Non		Ves No
and the second se	Time: 12-145	open 125 1.75 Post-St Field Staff: M M	Rise Peak Fail Non	Rain Gauge Unobstructed?	<u>yks</u> No
Station N Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L):	ame: WUFF-In	Post-St 1.75 Post-St Field Staff: M MM Station Nam Date/Time End: [] # of Samples: Sampled Without Error? Est. Sample Vol (L):	Rise Peak Fail Non?	Rain Gauge Unobstructed?	₩s No (co ^a WUFF-BP
	ame: WUFF-In 11 <u>-14.17 6:45</u> 8	Post-St Field Staff: M MM Station Nam Date/Time End: # of Samples: Sampled Without Error?	Rise Peak Fail Non	Rain Gauge Unobstructed? Weather: Cloudy Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft):	VS No

ite:	Tíme:	Field Staff:				Weather:						_
Station	Parameter	Time	pH	Bottle	Туре	# of Bottles	Bottie Volume (mi)	Duplicated	F	ow Co	nditi	OTAS
WUFF-In	ТРН		NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	Non
WUFF-Out	ТРН	all lava it	NA	HDPE	Glass	2	500	yes no	Rise	Peak	Fall	Non
WUFF-In	pH								Rise	Peak	Fall	Non
WUFF-Out	pH								Rise	Peak	Fall	Non

	in the second second	FIELD L	OG SHEET		
Project Name: Up-	Flo Filter	Project #:	13-05605-000		
Site Location: WSD	OT TEST FACILITY	Client: H	lydro International		
Site ID: WUFF		Event ID:	20[7]]19	HEF	RREA
			orm Visit	COM	NSULTAN
Date: 11.14.17	Time: 12:45		llen	Weather: Cloudy , 600	
	me: WUFF-In		e: WUFF-Out	Station Name: WUFF-BP	10 - 10 - 1
Farget Pump Vol (ml)	200	Primary Device Level?	und	Primary Device Level? Yes	No
ump Vol Before Adj. (ml) 4	~	Offset Before Adj. (ft)		Offset Before Adj. (ft):	
ump Vol After Adj. (ml):	-	Offset AfterAdj. (ft):	-	Offset AfterAdj. (ft)	
intake Checked?	🚱 No	Target Pump Vol (ml)	¥ 200		
Sample Line Rinsed?	Res No	Pump Vol Before Adj. (ml)	-	Station Name: WUFF-SP	
Clean Bottle?	No No	Pump Vol After Adj. (ml)			
ce Added?	Yes No	Intake Checked?	Tes No	Offset Before Adj. (ft):	
Program Started?	Yes No	Desiccant Dry?	Ves No	Offset AfterAdj. (ft):	
Fubing Connected? Flow Conditions:	Rise Peak Fall Non	Sample Line Rinsed? Clean Bottle?	No No	Measure Down (ft):	_
Now Conditions:	Rise Peak Fall John	Ice Added?	Rei No		1100
* no wat	2	Program Started?	No No	Station Name: WURF-RG	
· NO MAT		Tubing Connected?	No	Rain Gauge Level? Yes	No
		Flow Conditions:	Rise Peak Fall Non	Rain Gauge Unobstructed? Yes	No
		× du	alicrate		
		lett valve o	per 1.75 t	ura.J.	
				uraJ.	
16	1 14:2 0	Post-St	orm Visit		
Date: 11-20-17	Time: 14:30	Post-Si	orm Visit	Weather: cloudy leave	
Station Nat	me: WURF-In	Post-St Field Staff: M	orm Visit Aullen e: WURF-Out	Weather: cloudy (LO" Station Name: WUFF-BP	
Station Nai Date/Time End:	me: WURF-In 11.20.17 00.9	Post-Si Field Staff: M Station Nam Date/Time End:	orm Visit Aullen e: WURF-Out	Weather: cloudy (LO ²⁰ Station Name: WURF-BP	
Station Nat Date/Time End: # of Samples:	me: WUFF-In 11.20.17 00.9 24	Post-Si Field Staff: M A Station Nam Date/Time End: # of Samples:	orm Visit Aullen e: WUFF-Out II. 20. 17 00.2 20 30	Weather: cloudy (LO" Station Name: WUFF-BP	
Station Nat Date/Time End: # of Samples: Sampled Without Error?	Me: WURF-In 11.20.17 00.24 Yes No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error?	orm Visit 1 11/20 e: WURF-Out 1. 20.17 2	Weather: cloudy (LO ²⁰ Station Name: WURF-BP	
Station Nat Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L):	me: WURF-In 11.20.17 00.9 Yes No E	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L):	orm Visit Aullen e: WUFF-Out II. 20. 17 00.2 20 30	Weather: cloudy (LO ²⁰ Station Name: WURF-BP	
Station Nat Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition:	me: WURF-In 11.20.17 00.3 Yes No E Art gray	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition:	e: WUFF-Out 1. 20.17 00.4 No Yes No	Weather: Cloudy LO ²⁰ Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Station Name: Station Name: WUFF-SP	
Station Nat Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced?	me: WURF-In 11.20.17 00.3 Yes No E ArV-gro No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced?	e: WURF-Out 1. 20. 17 00.2 Yes No 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Weather: Cloudy LO ²⁰ Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset Before Adj. (ft):	
Station Nat Date/Time End: e of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab?	me: WURF-In 11.20.17 00.3 Yes No E ArV-gro No No No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	e: WUFF-Out 1) . 20. 17 00.2 10 . 20.	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft):	
Station Nat Date/Time End: e of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	Me: WURF-In 11.20.17 00.3 Yes No E Yes No Yes No Yes No Yes No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	e: WURF-Out 1. 20. 17 00. Yes No Yes No Yes No Yes No Yes No Yes No	Weather: Cloudy LO ^A Station Name: WUFF-BP 1 Offset Before Adj. (ft):	
Station Nat Date/Time End: e of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	me: WURF-In 11.20.17 00.3 Yes No E ArV-gro No No No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	e: WUFF-Out 1) . 20. 17 00.2 10 . 20.	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG	
Station Nat Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	Me: WURF-In 11.20.17 00.3 Yes No E Yes No Yes No Yes No Yes No	Post-Si Field Staff: M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	e: WURF-Out 1. 20. 17 00.2 Yes No Yes No Yes No Yes No Yes No Yes No	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	No
Station Nar Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Bent to Lab? Duplicate Sample? Flow Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-St Field Staff: M M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG	No
Station Nar Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Me: WURF-In 11.20.17 00.3 Yes No E Yes No Yes No Yes No Yes No	Post-St Field Staff: M M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	
Station Nar Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-St Field Staff: M M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	
Station Nar Date/Time End: e of Samples: sampled Without Error? Est. Sample Vol (L): /isual Condition: Bottles Replaced? Bent to Lab? Duplicate Sample? How Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-St Field Staff: M M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	
Station Nar Date/Time End: of Samples: ampled Without Error? Ast. Sample Vol (L): Visual Condition: Hottles Replaced? Ant to Lab? Duplicate Sample? How Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-St Field Staff: M M Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	
Station Nar Date/Time End: of Samples: ampled Without Error? Ast. Sample Vol (L): Visual Condition: Hottles Replaced? Ant to Lab? Duplicate Sample? How Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-Si Field Staff: Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak	e: WUFF-Out 1. 20.17 WUFF-Out 1. 20.17 Wes No Yes No Yes No Yes No Yes No Rise Peak Fall Yes Peak Fall	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	
Station Nar Date/Time End: of Samples: ampled Without Error? Ast. Sample Vol (L): Tisual Condition: tottles Replaced? ent to Lab? Duplicate Sample? How Conditions:	Me: WURF-IN 11.20.17 00.3 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall Rene	Post-Si Field Staff: Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak	e: WURF-Out 1. 20.17 A0 Ves No Ves No Ves No Ves No Ves No Rise Peak Fall Tor	Weather: Cloudy Low Station Name: WUFF-BP Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: WUFF-SP Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: WUFF-RG Rain Gauge Level? Yes	

Date:	Time:	Field Staff:			Weather	Weather:				
Station	Parameter	Time	pH NA NA	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated yes no yes no	Flow Conditions		
WUFF-In	ТРН			HDPE Glass	2	500		Rise Peak Fall None		
WUFF-Out	ТРН			HDPE Glass	2	500		Rise Peak Fall None		
WUFF-In	pH							Rise Peak Fall None		
WUFF-Out	pH			1.2				Rise Peak Fall None		
And and a support of the local data and the local d	15. (note any calibrations or mainte	nance on back)			1					

		FIELD L	OG SHEET	
Project Name: Up	-Flo Filter	Project #:	13-05605-000	
Site Location: WSI	OOT TEST FACILITY	Client: H	lydro International	
Site ID: WUFF		Event ID:	20171121	HERRER/ ENVIRONMENTA CONSULTANT
	Sand Constant of the State	Pre-St	orm Visit	
Date: (1-20.17	Time: 14:30	Field Staff: MM1	ullen	Weather: Claude (QP
Station Na	me: WUFF-In	the same same succession and the same	e: WUFF-Out	Station:Name: WUFF-BP
Target Pump Vol (ml)	200	Primary Device Level?	445 .	Primary Device Level? Yes No
Pump Vol Before Adj. (ml):	-	Offset Before Adj. (ft):	0-	Offset Before Adj. (ft):
Pump Vol After Adj. (ml):		Offset AfterAdj. (ft):	-	Offset AfterAdj. (ft):
Intake Checked?	Ers No	Target Pump Vol (ml)	200	
Sample Line Rinsed?	Yes No	Pump Vol Before Adj. (ml)	+	- Station Name: WUFF-SP
Clean Bottle?	No No	Pump Vol After Adj. (ml)		A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO
Ice Added?	No No	Intake Checked?	les No	Offset Before Adj. (ft):
Program Started?	No No	Desiccant Dry?	No No	Offset AfterAdj. (ft):
Tubing Connected?	No No	Sample Line Rinsed?	No No	Measure Down (ft):
Flow Conditions:	Rise Peak Fall Nm)	Clean Bottle?	No No	
		Ice Added?	No No	Station Name: WUFF-RG
		Program Started?	No No	
		Tubing Connected? Flow Conditions:	Rise Peak Full None/	Rain Gauge Level? Yes No Rain Gauge Unobstructed? Yes No
	2*			4
1.22.17	11:00	Post-St	orm Visit	
Date:	Time: 200	Field Staff:	B.Blaud	Weather: doudy 39°F
Station Na	me: WUFF-In	Station Name	e: WUFF-Out	Station Name: WUFF-BP
Date/Time End:	11.22.17/3:53	Date/Time End:	11.2217 5:44	Offset Before Adj. (ft):
# of Samples:	- 100'	# of Samples:	100	Offset AfterAdj. (ft):
Sampled Without Error?	(Yes) No	Sampled Without Error?	Ses No	
Est. Sample Vol (L):	24	Est. Sample Vol (L):	21	Station Name: WUFF-SP
Visual Condition:	gran clady	Visual Condition:	ught array cleo	
Bottles Replaced?	Yes the	Bottles Replaced?	Yes No	Offset Before Adj. (ft):
Sent to Lab?		Sent to Lab?		Offset AfterAdj. (ft):
Duplicate Sample?			Van Nal	Measure Down (ft):
	Yes W	Duplicate Sample?	Yes No	
Flow Conditions:	Yes Sa Rise Peak Fall Nang	Flow Conditions:	Rise Pcak Fall	Station Name: WUFF-RG
Flow Conditions:	1			
	Rise Peak Fall None	Flow Conditions:	Rise Pcak Full Mone	Station Name: WUFF-RG
	1	Flow Conditions:	Rise Pcak Full Mone	Station Name: WUFF-RG Rain Gauge Level? <u>Yes</u> No
	Rise Peak Fall From	Flow Conditions:	Rise Pcak Full Mone	Station Name: WUFF-RG Rain Gauge Level? <u>Yes</u> No
	Rise Peak Fall None	Flow Conditions:	Rise Pcak Full Mone	Station Name: WUFF-RG Rain Gauge Level? <u>Yes</u> No
	Rise Peak Fall From	Flow Conditions:	Rise Pcak Full Mone	Station Name: WUFF-RG Rain Gauge Level? Yes No

1977年1月1日日日間間に1月2			Grab Sar	nple Visit					
Date: 1.21-17	Time: 13:00	Field Staff:	MMU	ler		Weather:	ra	MA.	1000
Station	Parameter	Time	pH	Bottle	Туре	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
WUFF-In	TPH	13:00	NA	HDPE	Glass	2	500	yes nó	Rise Pal Fall Non
WUFF-Out	ТРН	13:00	NA	HDPE	Glas	2	500	yes 😡	Rise Heak Fall Non
WUFF-In	pH	13:19	611*						Rise Peak Fall Non
WUFF-Out	pH	13-15	6/30	S. 1	92. MID3	3.1.3		1000	Rise Peak Fall Non
otes/Visual Conditions: (note any calibrations or mainter	uance on back)	r woste	3 5 n hungo	nin, Ut at	τ. ί ζ	л. Д		

	FIELD LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	

HERRERA

7 _{Time:} (: 00 n Name: WUFF-In) <u>200</u>	Field Staff: A. 5	n D. Sharn	Weather: Cloudy	
n Name: WUFF-In) 200		A REAL PROPERTY AND A REAL	Weather: Clavy	
)	Station Name:		TTERMENT OF T	and a second second
		WUFF-Out	Station Name:	WUFF-BP
ml): l]:	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	Yes Calibrated	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	G No
Co No	Pump Vol Before Adj. (ml)	200	Station Name:	WUFF-SP
No No No	Intake Checked? Desiccant Dry? Sample Line Rinsed?	No No No No No No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	mot
0	Ice Added?	No No	Station Name:	WUFF-RG
	Tubing Connected? Flow Conditions:	Rise Peok Fall Non	Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No
	No No No No No No No	No Target Pump Vol (ml) No Pump Vol Before Adj. (ml) No Pump Vol After Adj. (ml) No Pump Vol After Adj. (ml) No Intake Checked? No Desiccant Dry? No Sample Line Rinsed? Rise Peak Fall Clean Bottle? Ice Added? Program Started? Tubing Connected?	No Target Pump Vol (ml) 200 No Pump Vol Before Adj. (ml) 200 No Pump Vol After Adj. (ml) 200 No Pump Vol After Adj. (ml) 200 No Pump Vol After Adj. (ml) 200 No Desiccant Dry? Cs No No Desiccant Dry? Cs No Rise Peak Fall Ome Program Started? No No Tubing Connected? Ves No	No Target Pump Vol (ml) 200 No Pump Vol Before Adj. (ml) 200 Station Name: No Pump Vol After Adj. (ml) 200 Station Name: No Pump Vol After Adj. (ml) 200 Station Name: No Dump Vol After Adj. (ml) 200 Station Name: No Desiccant Dry? Cs No Offset Before Adj. (ft): No Sample Line Rinsed? No Measure Down (ft): Rise Peak Fall form Clean Bottle? No Station Name: Program Started? No Rain Gauge Level?

en , ment se 1		Station Nan	ne: WUFF-Out	Station/Name: WUFF-BP		
Date/Time End: # of Samples: Sampled Without Error?	21/17 11:12 22 15 No	Date/Time End: # of Samples: Sampled Without Error?	12/24/17 11:12 23 13 No	Offset Before Adj. (ft): Offset AfterAdj. (ft):		
Est. Sample Vol (L):	durk clusty	Est. Sample Vol (L):	4,5 light cloudy	Station Name: WUFF-SP		
Bottles Replaced?	Yes O	Bottles Replaced?	Yes Ø	Offset Before Adj. (ft):		
Sent to Lab?	No No	Sent to Lab?	No No	Offset AfterAdj. (ft):		
Duplicate Sample?	Yes P	Duplicate Sample?	Yes My	Measure Down (ft):		
Flow Conditions: R	ise Peak Fall None	Flow Conditions:	Rise eas Fall None	Station Name: WUFF-RG		
				Rain Gauge Level? Yes No		
				Rain Gauge Unobstructed? Yes No - 90 gpm (design flow) rate		

			GLAU	Sample Visit						
ate: 12/29/17	Time: 11:00	Field Staff:	- V . A	hem		Weather:	(and	l		
Station	Parameter	Time	pH	Bottle	еТуре	# of Bottles	Bottie Volume (ml)	Duplicated	Flow Condi	itions
WUFF-In	ТРН	11:00	NA	HDPE	Glass	2	500	yes Ø	Rise Ceale Fa	ll Non
WUFF-Out	TPH	11:00	NA	HDPE	Glags	2	500	yes 🔂	Rise or Fa	dl Non
WUFF-In	pН		23						Rise Peak Fa	ll Non
WUFF-Out	pH	12 42 11 24		2 201054		No. al		1	Rise Peak Fa	ll Nor

Notes/Visual Conditions: (note any calibrations or maintenance on back)

Project Name: Up-	-Flo Filter	Project #:	13-05605-000		
Site Location: WSD	OT TEST FACILITY	Client: Hy			
Site ID: WUFF		Event ID:	2018010		
		Pre-Sto	rm Visit	and the second second	
Date: 1/4/18	Time: 1500	Field Staff: A. SVEN	SE	Weather: OVELCAST	
Station Na	me: WUFF-In	Station Name	: WUFF-Out	Station Name:	WUFF-BP
Target Pump Vol (mł) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked?	200 Yes (No)	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml)	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	Yes_ No
Sample Line Rinsed? Clean Bottle?	Yes No No No	Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)	-	Station Name:	WUFF-SP
Ice Added? Program Started? Tubing Connected? Flow Conditions:	V No No Rise Peak Fall	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	Ves No No No No No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	
· · ·		Ice Added? • Program Started? Tubing Connected? Flow Conditions:	No No Yes No Rise Peak Fall None	Station Name; Rain Gauge Level? Rain Gauge Unobstructed?	WUFF-RG Yes No Yes No

Date: 1/5 18 Ti	13.00					
Date: 173 10 II						
Station Name:	WUFF-In	Station Na	Station Name: WUFF-Out		WUFF-BP	
Date/Time End:	15 118 0545 72 (2) (30)	Date/Time End: # of Samples: Sampled Without Error?	1/5 18 0555 100 160 160 No	Offset Before Adj. (ft): Offset AfterAdj. (ft):		
Est. Sample Vol (L): Visual Condition:	FAY TURBIN	Est. Sample Vol (L): Visual Condition:	20 MODITURBID	Station Name:	WUFF-SP	
Bottles Replaced? Sent to Lab?	Yes No Tes No	Bottles Replaced? Sent to Lab?	Yes No	Offset Before Adj. (ft): Offset AfterAdj. (ft):		
Duplicate Sample?	Tes No	Duplicate Sample?	Yes Vo	Measure Down (R):		
Flow Conditions:	Rise Peak Call None	Flow Conditions:	Rise Peak fall None	Station Name:	WUFF-RG	
				Rain Gauge Level?	Yes	No
				Rain Gauge Unobstructed?	Yes	No

Grab Sample Visit Field Staff: Date: Time: Weather: Bottle Volume (mł) # of Station Parameter Time pH Bottle Type Bottles Flow Conditions Duplicated WUFF-In TPH HDPE Glass 2 500 yes no Rise Peak Fall None NA HDPE Glass Rise Peak Fall None WUFF-Out 2 500 yes no TPH NA Rise Peak Fall None WUFF-In pН
 WUFF-Out
 pH

 Notes/Visual Conditions: (note any calibrations or maintenance on back)
 Rise Peak Fall None

Project Name: Up	-Flo Filter	Project #:	13-05605-000	ant/ the house	- 6
Site Location: WSI	DOT TEST FACILITY	Client: I	Hydro International		
Site ID: WUFF	State of the second	Event ID:	201	80107	HERRER ENVIRONMENT
		Pre-St	torm Visit		CONSULAR
Date: 1/5/18	Time: 1330	Field Staff: A. SVE	ENDORN	Weather: SHOWERS, I	19°F
Station Na	ime: WUFF-In	Station Nan	ne: WUFF-Out	Station Name:	WUFF-BP
Target Pump Vol (ml)	200	Primary Device Level?	YES	Primary Device Level?	Yes No
Pump Vol Before Adj. (ml):		Offset Before Adj. (ft)		Offset Before Adj. (ft):	
Pump Vol After Adj. (ml):		Offset AfterAdj. (ft)		Offset AfterAdj. (ft)	
Intake Checked?	Yes G	Target Pump Vol (ml)	200		
Sample Line Rinsed? Clean Bottle?	Yes No	Pump Vol Before Adj. (ml)		Station Name:	WURF-SP
Ice Added?	Yes No	Pump Vol After Adj. (ml) Intake Checked?	No No	Offset Before Adj. (ft):	
Program Started?	Yes No	Desiccant Dry?	No	Offset AfterAdj. (ft)	
Tubing Connected?	Yes No	Sample Line Rinsed?	Yes/ No	Measure Down (ft):	
Flow Conditions:	Rise Peak Fall None	Clean Bottle?	Tes No		
	0	Ice Added?	Ye No	Station Name:	WITTER DC
		Program Started?	Yes No	Stillon Name:	WUPB-RG
		Tubing Connected?	Ya No	Rain Gauge Level?	Yes No
		Flow Conditions:	Rise Peak fall None	Rain Gauge Unobstructed?	Yes No
			· · · · ·		
			NRD VALVE		
		Post-S	torm Visit		
Date: [/ E / 18	Time: (0 20)	2	torm Visit	Weather: PAMEN CLC	- JDM, 46F
Date: [/E//B Station Na	Time: (O ZZ) me: WUFF-In	Post-St Field Staff: A. Stand Station Nam	torm Visit	Station/Name:	and the second
Station Na	Time: (0 2_) me: WUFF-In [/&/E_(UM)]043	Post-St Field Staff: A. Stand Station Nam	torm Visit SSC) 18: WUFF-Out	Station:Name:	and the second
Station Na Date/Time End: # of Samples:	Time: (O ZZ) me: WUFF-In	Post-S Field Staff: A. Strate Station Num Date/Time End: # of Samples:	torm Visit >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Station:Name:	and the second
Station Na Date/Time End: Ø of Samples: Sampled Without Error?	Time: (0 2_0) me: WUFF-In [/&/16(UM/1043	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error?	torm Visit 10: WUFF-Out	Station:Name:	and the second
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L):	Time: (0 20) me: WUFF-In [/0/16 /////043 100/196 No 20	Post-S Field Staff: A. Syract Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L):	torm Visit >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Station:Name:	WUFF-BP
Station Na Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: U f.	Time: (0 20) me: WUFF-In 1/9/1E (1/1/1/043 MOV 96 No 20 7 TUR3: D DAY HOW	Post-St Field Staff: A. Stratton Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sul 644	torm Visit \sim 1 = WUFF-Out $1 = \frac{1}{2} + \frac{1}{2}$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name:	WUFF-BP
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: U f.// Bottles Replaced?	Time: (0 20) me: WUFF-In <i>[(Q)[E_[WM]]043</i> <i>MON 96</i> <u>SES</u>) No 20 7 TVR3: D DAVE SAM (Yes) No	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sci 644 Bottles Replaced?	torm Visit \sim 1 = WUFF-Out $1 = \frac{1}{2} + \frac{1}{2}$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft):	WUFF-BP
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: U for Bottles Replaced? Sent to Lab?	Time: (0 20) me: WUFF-In (10)(E //////043 MOV 96 (10)(043) MOV 96 (10)(043) MOV 96 (10)(043) (10)(04)	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc/644 Bottles Replaced? Sent to Lab?	torm Visit 356 198/18 $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $198/18$ $198/18$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft):	WUFF-BP
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: U &/ Bottles Replaced? Sent to Lab? Duplicate Sample?	Time: (0 20) me: WUFF-In (/0//E //////043 MOV 96 TES No 20 7 TVL3: D DXV 400 (Fes) No TES No TES No TES No	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc/644 Bottles Replaced? Sent to Lab? Duplicate Sample?	torm Visit 356 198/18 $196198/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196/1$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	WUFF-BP
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: U &/ Bottles Replaced? Sent to Lab? Duplicate Sample?	Time: (0 20) me: WUFF-In (10)(E //////043 MOV 96 (10)(043) MOV 96 (10)(043) MOV 96 (10)(043) (10)(04)	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc/644 Bottles Replaced? Sent to Lab?	torm Visit 356 198/18 $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $1967198/18$ $198/18$ $198/18$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft):	WUFF-BP
Station Na Date/Time End: ø of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample?	Time: (0 20) me: WUFF-In (/0//E //////043 MOV 96 TES No 20 7 TVL3: D DXV 400 (Fes) No TES No TES No TES No	Post-Si Field Staff: A. Syract Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc/644 Bottles Replaced? Sent to Lab? Duplicate Sample?	torm Visit 356 198/18 $196198/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196196/18$ $196/1$	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name:	WUFF-BP
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample? Tow Conditions:	Time: (0 20) me: WUFF-In (10/16 1/4/10/3 NO TORDO 96 TORDO 96 Yes No Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syraw (Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: SL/64 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	WUFF-BP WUFF-SP WUFF-RG
Station Na Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Time: (0 20) me: WUFF-In (/0//E //////043 MOV 96 TES No 20 7 TVL3: D DXV 400 (Fes) No TES No TES No TES No	Post-Si Field Staff: A. Syraw (Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: SL/64 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Southes Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Time: (0 20) me: WUFF-In (100/16 /////043 No TORD: D NAV 400 Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syraw (Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: SL/64 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample? Tow Conditions:	Time: (0 20) me: WUFF-In (100/16 /////043 No TORD: D NAV 400 Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syraw (Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: SL/64 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: Ø of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample? Tow Conditions:	Time: (0 20) me: WUFF-In (100/16 /////043 No TORD: D NAV 400 Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syraw (Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: SL/64 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Southes Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Time: (0 20) me: WUFF-In (100/16 /////043 No TORD: D NAV 400 Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syract Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc1644 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit SSA ie: WUFF-Out 1 States (co 0422 (res) No To 0422 (res) No To 0422 (res) No Yes) No Yes No Yes No Rise Peak Fall None	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): /isual Condition: U for Bottles Replaced? Bont to Lab? Duplicate Sample? Tow Conditions: Notes/Visual Conditions: (if	Time: (0 20) me: WUFF-In 1/0/1E //////043 MOV 9/0 NO 20 7 J/A3: D DNV AAA (Yes) No Tes No Tes No Rise Peak Fall None	Post-Si Field Staff: A. Syract Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc1644 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Name: Rain Gauge Level? Rain Gauge Unobstructed?	WUFF-BP WUFF-SP WUFF-RG Yes No
Station Na Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: UKM Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	Time: (0 20) me: WUFF-In (100/16 /////043 No TORD: D NAV 400 Yes No Yes No Yes No Yes No Rise Peak Fall None	Post-Si Field Staff: A. Syract Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Sc1644 Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	torm Visit SSA ie: WUFF-Out 1 States (co 0422 (res) No To 0422 (res) No To 0422 (res) No Yes) No Yes No Yes No Rise Peak Fall None	Station:Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Rain Gauge Level?	WUFF-BP WUFF-SP WUFF-RG Yes No

WUFF-In трн HDPE Glass 500 yes no Rise Peak Fall None SA HOPE Glass Rise Peak Fall None 500 yes no WUFF-Out TPH NA 2 Rise Peak Fall None WUFF-In pH WUFF-Out pH Notes/Visual Conditions: (note any calibrations or maintenance on back) Rise Peak Fall None

	FIELD LOG SHEET	
Project Name: Up-Flo Filter	Project #: 13-05605-000	
Site Location: WSDOT TEST FACILITY	Client: Hydro International	
Site ID: WUFF	Event ID: 20180108	HERRERA ENVIRONMENTAL CONSULTANTS

A CONTRACTOR OF	The second second second second	Pre-St	orm Visit				
Date: 1/8/18	Time: /(CO	Field Staff: A-SVE	NAGEN	Weather: PARTLY CLOVOM 46°F			
Station Nan	ne: WUFF-In	Station Nam	e: WUFF-Out	Station Name: WUFF-BP			
Target Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked?	200 Yes (No)	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml)	7ES	Primary Device Level?			
Sample Line Rinsed? Clean Bottle?	Yes No	Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)	~	Station Name:	WUFF-SP		
Ice Added? Program Started? Tubing Connected? Flow Conditions:	Yes No Yes No Yes No Rise Peak al Aone	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	Yes No Yes No Yes No Yes No No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):			
		tce Added? Program Started?	Ves No No	Station Name:	WUFF-RG		
	3	Tubing Connected? Flow Conditions:	Yes No Rise Peak Fail None	Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No		

-VALVE SET @ 1.5 TURNS, CLEANED VALVE, LLEANED + ADJUSTED DLAWBRIDGE TO PREVENT BASE From FLOWING THOMGH SYSTEM

		Post-S	torm Visit			and the second second	Server Cold	
Date: 1/9/18	Time: //00	Field Staff: A - SVM	scent -		Weather: SHOWERS, 41	5°F		
Station Na	me: WUFF-In	Station Name: WUFF-Out			Station Name: WUFF-BP			
Date/Time End: # of Samples: Sampled Without Error?	1/9/18 0254 	Date/Time End: # of Samples: Sampled Without Error?	5	_	Offset Before Adj. (ft): Offset AfterAdj. (ft):	_		
Est. Sample Vol (L): Visual Condition:	TO SUBATION TURBID	Est. Sample Vol (L): Visual Condition:	10 SLIGHTIT TO		Station Name: V	WUFF-SP		
Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Yes No Yes No	Bottles Replaced? Sent to Lab? (Duplicate Sample?	Yes No Yes No Yes N		Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):			
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall	1	Station Name: V	VUFF-RG		
	f no' to any questions above, expla				Rain Gauge Level? Rain Gauge Unobstructed?	Yes Yes	No No	

Grab Sample Visit Time: Field Staff: Date: Weather: # of Bottle Volume Station Parameter Time pH **Bottle Type** Bottles Flow Conditions (ml) Duplicated 500 yes no HDPE Glass Rise Peak Fall None WUFF-In TPH 2 NA HDPE Glass Rise Peak Fall None 2 WUFF-Out TPH NA 500 yes no WUFF-In pН Rise Peak Fall Nome pH Rise Peak Fall None WUFF-Out Notes/Visual Conditions: (note any calibrations or maintenance on back)

	-Flo Filter DOT TEST FACILITY		13-05605-000 ydro International		
Site ID: WUFF		Event ID:	20180203	5	
	and the state of the	Pre-Sto	orm Visit	- and the second se	ODITO DE FAI
Date: 2/2/18	Time: 1400	Field Staff: A - SVEN	IDSEN	Weather: PAPTLY CLOUD	1.54°F
Station Na	ane: WUEF-In	Station Nam	e: WUFF-Out	Station Name: V	VUFF-BP
Target Pump Vol (ml) Pump Vol Before Adj. (ml): Pump Vol After Adj. (ml): Intake Checked?	212 - 220 2-12 (Yes) No	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml)	200	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft):	No
Sample Line Rinsed? Clean Bottle?	YE No Yes No	Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml)		Station Name: N	VUFF-SP
Ice Added? Program Started? Tubing Connected? Flow Conditions:	Yes No Yes No Yes No Rise Peyk Fall Kong	Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	Tes No Tes No Tes No Yes No (Yes) No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	
	Ŭ	Ice Added? Program Started?	Yes No	Station Name: V	VUFF-RG
		Tubing Connected? Flow Conditions:	Yes No Rise Peak Fall Kone	Rain Gauge Level? Rain Gauge Unobstructed?	Yes No Yes No

and the second s	Section and a section of the section	Post-	Storm Visit	- Andrew States and St		97 - 98 1
Date: 2/5/18	Time: 1100	Field Staff: A. Suk	ENDSFEN	Weather: OVEDCAST	, So°F	
Station Na	me: WUFF-In	Station Name: WUFF-Out		Station/Name: WUFE-BP		
Date/Time End: e of Samples: sampled Without Error?	2/3 (18 2308 50 (Yes) No	Date/Time End: ≠ of Samples: Sampled Without Error?	23/18 2308 49 (Yes) No	Offset Before Adj. (ft): Offset AfterAdj. (ft):		
Est. Sample Vol (L): "isual Condition:	10 SUIGHTLY TUNG ()	Est. Sample Vol (L): Visual Condition:	10 SUIGHTCM. TURBLO	Station Name:	WURF-SP	
Sottles Replaced? Sent to Lab? Duplicate Sample?	Yes (NO) Yes No Yes (NO)	Bottles Replaced? Sent to Lab? Duplicate Sample?	Yes No Tes No Yes No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):		
low Conditions:	Rise Peak Fait Sone	Flow Conditions:	Rise Peak Fall None	Station Name:	WUFF-RG	
				Rain Gauge Level? Rain Gauge Unobstructed?	Yes Yes	No 1 No

0			Grab Sa	unple Visit	· · · · · · · · · · · ·	and the second			
ate:	Time:	Field Staff				Weather:			
Station	Parameter	Time	pH	Bottle Ty	ре	# of Bottles	Bottie Volume (ml)	Duplicated	Flow Conditions
WUFF-In	TPH		NA	HDPE C	Glass		500	yes no	Rise Peak Fall Not
WUFF-Out	ТРН		- jie	HDPE (Glass	2	500	yes no	Rise Peak Fall Nor
WUFF-In	pH								Rise Peak Fall Not
WUFF-Out	pH			711 21				1012	Rise Peak Fall Nor
otes/Visual Conditions:	(note any calibrations or mainte	nance on back)							-

			13-05605-000		
Site Location: WS	DOT TEST FACILITY	Client:	Hydro International		HERRE
Site ID: WUFF		Event ID:	20180213		ENVIRONME CONSULT
STREAM THE PARTY	and the second where		torm Visit	1	- Andrew States - States
Date: 2 13 18	Time: 1400	Field Staff A - Sug	NDSQ	Weather: MOST	LY SUNNY
Station Na	ame: WURF-In	Station Nan	ne: WUFF-Out	Station	Name: WUFF-BP
arget Pump Vol (ml)	200	Primary Device Level?	YES	Primary Device Level?	Yes No
ump Vol Before Adj. (ml)		Offset Before Adj. (ft)	-0.005167	Offset Before Adj. (ft):	
ump Vol After Adj (ml)	61 DL 11	Offset AfterAdj. (ft)	0	Offset AfterAdj. (ft)	
ntake Checked? ample Line Rinsed?	No fee No	Target Pump Vol (ml) Pump Vol Before Adj (ml)	200		
lean Bottle?	Tes) No	Pump Vol After Adj (ml)	-	Station	Name: WUFF-SP
re Added?	(Yes) No	Intake Checked?	Yes No	Offset Before Adj. (ft):	
rogram Started?	NO NO	Desiccant Dry?	Tex No	Offset AfterAdj. (ft):	
ubing Connected?	Una No	Sample Line Rinsed?	Tes No	Measure Down (ft):	
law Conditions:	Rise Peak Fall Sone	Clean Bottle? Ice Added?	Tes No Yes No	No.511 COMMONWERS	
		Program Started?	Ves No	Station	Name: WUEF-RG
		Tubing Connect#d?	No No	Rain Gauge Level?	Yes No
		Flow Conditions:	Rise Peak Fall None)	Rain Gauge Unobstruct	ed? Yes No
	104 - C		\smile		
- 7/14/19	1000		torm Visit	Lu a OVERCHE	Tuler cor U20
	Time: 1000	Field Staff: A SVEN	ISEN		
StationNa	ime: WUBF-In	Field Staff: A SVEN Station Nan	المت 24 ne: WEFF-Out	Station	Name: WORF-BP
Station Na ate/Time End:	2/14/18 0138	Field Staff: A. SVEN Station Nan Date/Time End:	125EN 10:WUHF-Out 2/14/18 0138	Station Offset Before Adj. (ft):	Name: WORF-BP
Station Na ate/Time End: of Samples:	1111118 0138 	Field Staff: A. SVEN Station Nam Date/Time End: # of Samples:	195EN ne:WURF-Out 2/14/18 0138 72	Station	Name: WURE-BP
Station Na ate/Time End: of Samples: ampled Without Error?	1000 1000 1000 1000 1000 1000 1000 100	Field Staff: A. SVEN Station Nan Date/Time End:	1550 1050	Station Offset Before Adj. (ft): Offset AfterAdj. (ft):	материи «Полонии «Полонии» «Полони» «Полони» «Полони» «Полони» «Полони» «Полони» «Полони» «Поло
ate/Time End: of Samples: ampled Without Error? st. Sample Vol (L.): isual Condition:	10000000000000000000000000000000000000	Field Staff: A SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition:	1550 1050 1050 100 100 100 100 10	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station	Name: WUFF-BP
Station Na ate/Time End: of Samples: impled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced?	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{72}$ $\frac{72}{15}$ $\frac{15}{706815}$ $\frac{15}{768}$	Field Staff: A . SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced?	125EN 105EN 2/14/18 0138 72 62 No 15 T UR 31 D Euro No	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft):	Name: WUFF-BP
Station Na ate/Time End: of Samples: impled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab?	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{138}$ $\frac{72}{15}$ $\frac{15}{7000}$ $\frac{15}{7000}$ $\frac{15}{7000}$ $\frac{15}{7000}$ $\frac{15}{7000}$ $\frac{15}{7000}$ $\frac{15}{7000}$	Field Staff: A SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab?	1550 1050 1050 100 100 100 100 10	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft):	Name: WUFF-BP
Station Na ate/Time End: of Samples: impled Without Error? it. Sample Vol (L): sual Condition: ittles Replaced? int to Lab? iplicate Sample?	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{72}$ $\frac{72}{15}$ $\frac{15}{706815}$ $\frac{15}{768}$	Field Staff: A . SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced?	125EN 105EN 2/14/18 0138 72 62 No 15 T UR 31 D Euro No	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	Name: WUFE-SP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ottles Replaced? nt to Lab? uplicate Sample?	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{138}$ $\frac{72}{15}$ $\frac{15}{706815}$ $\frac{15}{706815}$ $\frac{78}{78} \frac{100}{78}$	Field Staff: A SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	12520 12: WEFF-Out 2/14/18 0138 72 62 NO 15 T UR-131 D Est NO Yes NO Yes NO	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station	Name: WUFE-SP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ttles Replaced? nt to Lab? uplicate Sample?	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{138}$ $\frac{72}{15}$ $\frac{15}{706815}$ $\frac{15}{706815}$ $\frac{78}{78} \frac{100}{78}$	Field Staff: A SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	12520 12: WEFF-Out 2/14/18 0138 72 62 NO 15 T UR-131 D Est NO Yes NO Yes NO	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level?	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: attles Replaced? nt to Lab? uplicate Sample? ow Conditions:	$\frac{1}{2} \frac{1}{14} \frac{18}{18} \frac{0138}{138}$ $\frac{72}{15}$ $\frac{15}{706815}$ $\frac{15}{706815}$ $\frac{78}{78} \frac{100}{78}$	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: attles Replaced? nt to Lab? uplicate Sample? ow Conditions:	Ime: WUBE-In 2/14/18/0138 72 Yes/No 15 TUC-BIN Yes/No Yes/No Yes/No Rise Peak Fall Kone	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level?	Name: WUFF-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: attles Replaced? nt to Lab? uplicate Sample? ow Conditions:	Ime: WUBE-In 2/14/18/0138 72 Yes/No 15 TUC-BIN Yes/No Yes/No Yes/No Rise Peak Fall Kone	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level?	Name: WUFF-BP
Station Na ate/Time End: of Samples: ampled Without Error? at. Sample Vol (L): sual Condition: attles Replaced? att to Lab? aplicate Sample? ow Conditions:	Ime: WUBE-In 2/14/18/0138 72 Yes/No 15 TUC-BIN Yes/No Yes/No Yes/No Rise Peak Fall Kone	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level?	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: attles Replaced? nt to Lab? uplicate Sample? ow Conditions:	Ime: WUBE-In 2/14/18/0138 72 Yes/No 15 TUC-BIN Yes/No Yes/No Yes/No Rise Peak Fall Kone	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level?	Name: WUFF-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ttles Replaced? ant to Lab? aplicate Sample? ow Conditions: ttes/Visual Conditions: (i	Ime: WUKF-In 2-[14] 18 013E FL Yes No TOCBIN Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes explained	Field Staff: A SVEN Station Num Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Grab Sa	1 SEN 12: WERF-Out 2-(14/18: 0138: 7-2 62: No 15 TUP-131 N Yes: No Yes: No Rise Peak Full None	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructs	Name: WUFE-BP
Station Na ite/Time End: of Samples: mpled Without Error? t. Sample Vol (L.): sual Condition: ttles Replaced? int to Lab? plicate Sample? ow Conditions: ttes/Visual Conditions: (i	Ime: WUBE-In 2/14/18/0138 72 Yes/No 15 TUC-BIN Yes/No Yes/No Yes/No Rise Peak Fall Kone	Field Staff: A SVEN Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	1252N 12:WERF-Out 2/14/18 0178 72 62 NO 15 TUP_131 D Yes NO Yes NO Yes NO Rise Peak Full None en)	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructs	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ittles Replaced? nt to Lab? uplicate Sample? ow Conditions: tes/Visual Conditions: (i te: Station	Ime: WUKF-In 2-[14] 18 013E FL Yes No TOCBIN Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes explained	Field Staff: A SVEN Station Num Date/Time End: of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Grab Sa	e: WERF-Out 2-(14/18 O138 7-2 2-15 7-2 2-15 7-2 2-131 Yes No Yes No Yes No Rise Peak Fall None en) mple Visit Bottle Type	Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Level? Rain Gauge Unobstruct Bothers Weather: # of Bottley Colume	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ttles Replaced? nt to Lab? uplicate Sample? ow Conditions: ttes/Visual Conditions: (i	f 'no' to any questions above, explanations (Construction) (Constructions) (Co	Field Staff: A SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Grab Sa Field Staff:	e: WERF-Out 2-(14/18 0138 4-2 4-2 4-2 4-2 4-2 4-2 4-2 4-	Station Offset Before Adj. (ft): Station Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructor Weather: # of Bottles (ml) 2 500	Name: WUFE-BP
Station Na ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: ttles Replaced? nt to Lab? uplicate Sample? ow Conditions: otes/Visual Conditions: (i	Ime: WUKF-In 2-[14] 18_013E F2 Yes Yes Yes No Yes Yes No Yes No Yes No Yes No Yes No Yes No Yes Yes Time: Parameter	Field Staff: A SVEA Station Nam Date/Time End:	e: WERF-Out 2-(14/18 0138 7-2 2-15 7-2 2-15 7-2 2-131 Yes No Yes No Yes No Rise Peak Fall None en) mple Visit Bottle Type	Station Offset Before Adj. (ft): Station Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructor Weather: # of Bottles (ml) 2 500	Name: WUFE-BP Name: WUFE-SP Name: WUFF-RG Name: WUFF-RG d? Yes No Duplicated Flow Conditions yes no Rise Peak Fall No yes no Rise Peak Fall No
Station Na ate/Time End; of Samples: umpled Without Error? st. Sample Vol (L): sual Condition: ottles Replaced? int to Lab? uplicate Sample? ow Conditions: over Conditions: ottles/Visual Conditions: (i	Ime: WUKF-In 2-[14] 18_013E FL Yes Yes Yes Yes No Yes Yes No Yes No Yes Yes No Yes No Yes Yes No Yes Yes Yes Yes No Yes	Field Staff: A SVEA Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Flow Conditions tak Field Staff: Time pH NA	e: WERF-Out 2-(14/18 0138 4-2 4-2 4-2 4-2 4-2 4-2 4-2 4-	Station Offset Before Adj. (ft): Station Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructor Weather: # of Bottles (ml) 2 500	Name: WUFE-BP Name: WUFE-SP Name: WUFF-RG Yes No ed? Yes No Duplicated Flow Conditions yes no Rise Peak Fall No yes no Rise Peak Fall No Rise Peak Fall No Rise Peak Fall No
Station Na ate/Time End: of Samples: impled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample? ow Conditions: over Conditions: over Conditions: ottes/Visual Conditions: (i station w Conditions: ottes/Visual Conditions: (i w Conditi	Ime: WUKF-In 2-[14] 18_013E F2 Yes Yes Yes No Yes Yes No Yes Yes No Yes No Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	Field Staff: A SVEA Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Flow Conditions: Flow Conditions tak Field Staff: Time pH NA NA	e: WERF-Out 2-(14/18 0138 4-2 4-2 4-2 4-2 4-2 4-2 4-2 4-	Station Offset Before Adj. (ft): Station Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructor Weather: # of Bottles (ml) 2 500	Name: WUFE-BP Name: WUFE-SP Name: WUFF-RG Yes No ed? Yes No Duplicated Flow Conditions yes no Rise Peak Fall No yes no Rise Peak Fall No R
Station Na ate/Time End: of Samples: impled Without Error? st. Sample Vol (L): isual Condition: ottles Replaced? ent to Lab? uplicate Sample? ow Conditions: ottles/Visual Conditions: (i station wCFF-In wUFF-In wUFF-Out ites/Visual Conditions: (n	Ime: WUKF-In 2 19 12 132 15 15 15 No Yes No <	Field Staff: A SVEA Station Num Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions: ain why and remedial actions tak Flow Conditions: Flow Conditions tak Field Staff: Time pH NA NA	e: WERF-Out 2-(14/18 0138 4-2 4-2 4-2 4-2 4-2 4-2 4-2 4-	Station Offset Before Adj. (ft): Station Offset Before Adj. (ft): Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft): Station Rain Gauge Level? Rain Gauge Unobstructor Weather: # of Bottles (ml) 2 500	Name: WUFE-BP
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13-05605-000_Apx C6 Up-Fig Fiber File d Form 19202016 v.a.

Project Name:	Up-Flo Filter

Site Location: WSDOT TEST FACILITY

Client: Hydro International Event ID:

Project #: 13-05605-000



Rise Peak Fall None

Rise Peak Fall None

Pre-Storm Visit Pre-Storm Visit Batton Name: WURK-In Station Name: WURF-Out Station Name: WURF-INF Station Name: WURF-Out Station Name: WURF-INF Target Pump Vol (ml) 200 Primary Device Level? YCS Primary Device Level? Primary Device Level? <td< th=""></td<>
Station Name: WURF-In Station Name: WURF-Out Station Name: WURF-Ise Farget Pump Vol (ml) 200 Primary Device Level? Y.C.S Primary Device Level? Yes No Pump Vol Mer Adj (ml) Offset Before Adj (ft) Offset Before Adj (ft) Offset AfterAdj (ft) Ise Make Checked? Yes No Pump Vol Mire Adj (ml) 200 Offset AfterAdj (ft) Ise Year Bottle? Yes No Pump Vol Mire Adj (ml) 200 No Offset AfterAdj (ft): Ise Year Bottle? Yes No Pump Vol Mire Adj (ml) 200 No Offset AfterAdj (ft): Ise Year Bottle? Yes No Pump Vol Mire Adj (ml)
Station Name: WUKE-In Station Name: WUFE-Out Station Name: WUFE-BP Target Pump Vol (ml) 200 Primary Device Level? Y.C.S. Primary Device Level? Yes No Ump Vol March Adj (ml) Offset Before Adj (ft) Offset AfterAdj (ft) Discourd (ft) <td< th=""></td<>
Pump Vol Before Adj. (ml): Offset Before Adj. (ft): Offset AfterAdj. (ft): ump Vol Afer Adj. (ml): Offset AfterAdj. (ft): Offset AfterAdj. (ft): ump Vol Afer Adj. Target Pump Vol Afer Adj. Offset AfterAdj. (ft): ump Vol Afer Adj. Target Pump Vol Afer Adj. Offset AfterAdj. (ft): ump Vol Afer Adj. Target Pump Vol Afer Adj. Offset AfterAdj. (ft): Pump Vol Afer Adj. Target Pump Vol Afer Adj. Offset AfterAdj. (ft): Program Started? To: No Pump Vol Afer Adj. Using Connected? To: No Desicrant Dry? To: No Desicrant Dry? To: No Measure Down (ft): Iow Conditions: Rise Peak Fall Nom! Clean Bottle? To: No Iow Conditions: Rise Peak Fall Nom! To: No Station Name: WUEP-RG Program Started? To: No Rain Gauge Level? Yes No Iow Conditions: Rise Teach (GAATCO OTTEG Net PIPER) Program Started? No Rain Gauge Unobstructed? Yes No Iow Conditions: Program Started? No Rain Gauge Unobstructed? Yes No
Iow Conditions: Rise Peak Fall None Clean Bottle? Field Staff: No Station Name: WUEF-RG Iow Conditions: Rise Peak Fall None Clean Bottle? Field Staff: Mo Station Name: WUEF-RG Iow Conditions: Rise Peak Fall None Clean Bottle? Field Staff: Mo Station Name: WUEF-RG Iow Conditions: Rise Fall None Field Staff: Mo Rain Gauge Level? Yes No Rain Gauge Unobstructed? Field Staff: Moult Rotter OUT No Rain Gauge Unobstructed? Yes No Post-Storm Visit Field Staff: Moult Rotter Station Name: Story 35° Station Name: Story 35°
Post-Storm Visit ate: 3.1.18 Time: 11:15 Field Staff: M Muillen Weather: Sunny 35°
ate/Time End: 2.29.16 22.11 Date/Time End: 2.20.16 22.12 Offset Before Adj. (ft): of Samples: ioo # of Samples: ioo Offset After Adj. (ft): impled Without Error? ioo Sampled Without Error? Ioo Offset After Adj. (ft): it. Sample Vol (L): 20 Est. Sample Vol (L): 2.0 Station Name: WURE-SP
Isual Condition: Of V = gree j Visual Condition: Offset Before Adj. (ft): ottles Replaced? Yes No Sent to Lab? Offset AfterAdj. (ft): uplicate Sample? Yes Ko Duplicate Sample? Yes No
ow Conditions: Rise Peak Fall North Flow Conditions: Rise Peak Fall Nerth Station Name: WUFF-RG

 WUFF-Out
 pH

 Notes Visual Conditions: (note any calibrations or maintenance on back)

pH

13-15615-0011, Abs C6, Jb-Po Pite, Field Forth 19010016 va

n

WUFF-In

rojectiumer o	prational mea		LIGUEL #	10-00000-00	317				- ((
Site Location: WS	SDOT TEST FACILITY		Client:	Hydro Internat					- HEDD
Site ID: WUFF			Event ID	:2018	030	8			ENVIRONI CONSU
	CONTRACTOR STATE	12.0	Pre-	Storm Visit					
Date: 3/6/18	Time: 1130	Field Staff	1. Stados	W/M. MULL	E	Weather	SUNN	1,~5	OF
Station N	ame: WUEF-In	1	Station Na	me: WUFF-O	at		Statio	n Name:	WUFE-BP
arget Pump Vol (ml)	200	Primary Dev	ice Level?	400		Primary	Device Level?		Fes No
ump Vol Before Adj. (ml)		Offset Before		-0.00	2317	-1 -	efore Adj. (ft):		
ump Vol After Adj. (ml)		Offset After/		Ŏ		Offset A	fterAdj. (ft):		
itake Checked? ample Line Rinsed?	Yes No	Target Pump Pump Vol Bef		20	0	1 Constant			
lean Bottle?	Tes No	Pump Vol Af:				-	Statio	n Name:	WUFF-SP
e Added?	No. No	Intake Checl		Yes	No 1	Offset B	efore Adj. (ft):		
rogram Started?	Yes No	Desiccant Di	-	res	No	4	fter.Adj. (ft):		
ubing Connected? low Conditions:	Yes No Rise Peak Fall (None)	Sample Line			No No	Measure	Down (ft):		
ow conditions.	Kar Prak Fas None	Ice Added?		Yes	No	Control (1)			
		Program Sta	rted?		No		Station	Name: V	VUEE-RG
		Tubing Conr	ected?	Yes	No	Rain Gau	ige Level?	are sold	Yes No
		Flow Conditi	ons:	Rise Peak	Fall None	Rain Gat	ige Unobstruc	ted?	Yes No
			•						
C. LANEN	NITH FT DIP	6 0 6	AL ON IG	D CI D	C	C N	0		
UMPA	WO INSTAU	1 En	1 Fral	FUT		2.00	ice	- 1 -	
			NICIO	ricre	سال ،	sec	IC S		
SKT VA	UR@ 1.5	TURN	US						
0									
			Doct.	Storm Visit			5. 		
te: 3/9/18	Time: 1100	Field Staff:	the second second second second second	SVENDER	1	Ist anthem	MOST	14 00	JM, ~45
second residences and an and the second second second	ame: WUFF-In	The second second		me: WUEF-Ou	CONTRACTOR OF COMMUNICATION OF	weather		Contraction of the second second	VURE-BP
In the second second	3/8/18 1821				March 1 and 1		A COLOR	and the second second	VOLE-DL
te/Time End: f Samples:	54	Date/Time E # of Samples		3/8/10	1861		fore Adj. (ft):		
n Samples: mpled Without Error?	Tes No	Sampled Wit		Ger	No	Onset Ar	terAdj. (ft):		
t: Sample Vol (L)::	/0	Est. Sample 1		9	110	1000	Di-M.		17122-00
sual Condition	BROWN, TURBLD	Visual Condi	tion	MODERATE	07 TUP61	Þ	Station	Name: V	VOLD-SP
ttles Replaced ⁹	Yes No	Bottles Repla	ced?	Fes ha		Offset Be	fore Adj. (ft):		
nt to Lab?	Tes No	Sent to Lab?		No No	10	1	terAdj. (ft):		
plicate Sample? w Conditions:	Rise Plak Fall Non	Duplicate Sat		Ves Rist Peak F	and the second se	Measure	Down (ft):	-	THE R. S. HANGE STREET
in conditions.	KSC FOR FOR SUB	Conut	1113-	RISE PECK P	au cyone-		Station	Name: V	WUFF-RG
						Rain Gau	ge Level?		Fes No
						Rain Gau	ge Unobstruct	ed?	Yes No
es/Visual Conditions: (if 'no' to any questions above, expl	ain why and rem	edial actions ta	tken)					
							10		
						-			
				ample Visit		1000	1.54.33		
e: 3/8/18	Time: 1630	Field Staff:	A. SVEN	pres_			SHOWER		ef.
Station	Parameter	Time	pH	Bottle T	VD	# of Bottles	Bottie Volume (ml)	Duplicated	Flow Condition
WUFF-In	TPH	1635	NA		Glass	2			Rise Prol Fall
WUFF-Out	ТРН	1640	NA		Glass /	2	/		Rise Peak (Fall)
WUFF-In	pH								Rise Peak Fall N
WUFF-Out	ph ph								Rise Peak Fall
us/Visual Conditions: (1	note any calibrations or maintenan	ce on back)						1	
5								2	
13-36665-001 April Cel 30 - o Fis	1- Førs Fortt 19,72218 ka								

	p-Flo Filter	Project #:	13-05605-000		- (
Site Location: WS	DOT TEST FACILITY		Hydro International		- HERRE
Site ID: WUFF		Event ID:	20180313		ENVIRONME CONSULT
		Pre-S	torm Visit		
Date: 3/12/18	Time: 1030	Field Staff: A. SYEN	dsin	Weather: MISTLY SUNA	7,60°F
Station N	ame: WURF-In	Station Nan	ne: WUFF-Out	Station Name:	
Target Pump Vol (ml) Pump Vol Before Adj (ml) Pump Vol After Adj (ml) Intake Checked? Sample Line Rinsed? Clean Bottle? Ice Added? Program Started? Tubing Connected?	Pes No Fes No Fes No Fes No Fes No Fes No No Fes No	Primary Device Level? Offset Before Adj. (ft): Offset AfterAdj. (ft): Target Pump Vol (ml) Pump Vol Before Adj. (ml) Pump Vol After Adj. (ml) Intake Checked? Desiccant Dry? Sample Line Rinsed?	200 200 No No No No	Primary Device Level? Offset Before Adj (ft): Offset AfterAdj. (ft): Station Name: Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft). Measure Down (ft):	Yes No
Flow Conditions.	Rise Peak Fall Vane	Clean Bottle? Ice Added? Program Started? Tubing Connected? Flow Conditions:	Ve No Ve No Ve No No	Rain Gauge Level? Rain Gauge Unobstructed?	Yes No
		From Contractoris:	Rise Peak Fall None	Kam Gauge Gnoostructed?	Yes No
		Post-S	torm Visit		
Date: 3/14/18	Time: 1300	Contraction of the second s	The second se	Weather: MOSTET SUN	~.54°F
	Time: 1300 me: WUBF-In	Field Staff. A. SVEN	The second se	Weather: MOSTLY SUN Station Name: 1	
Station Nr Date/Time End: # of Samples: Sampled Without Error?	me: WUEF-In 3 13/12 2016	Field Staff. A. SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error?	OSEN	Offset Before Adj (ft):	WUFF-BP
Date: 3/19/18 Station/Nr Date/Time End: * of Samples: Sampled Without Error? Est, Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample? Flow Conditions:	3 13 12 20 6 11 16 20 6 11 16 16 Yes 10 10 Yes No 16 Yes No 16 Yes No 16	Field Staff. A. SVEN Station Nam Date/Time End: # of Samples: Sampled Without Error? Est. Sample Vol (L).	0550 10: WORE-Out 3/13/18 2018	Station Name:) Offset Before Adj (ft):	WUFF-BP WUFF-SP

Grab Sample Visit -Date: Time:---Field Staff: 11 Castler Bottle Volume # of Station Parameter Time pН Bottle Type Bottles Duplicated Flow Conditions (ml) HDPE Glass WUFF-In трн 500 yes no Rise Peak Fall None NA 2 HDPE Glass 2 500 yes no Rise Peak Fall None WUFF-Out TPH NA Ruse Peak Fall None WUFF-In pH WUPP-Out Rise Peak Fall None pН Notes (Visual Conditions: (note any calibrations of maintenance on back) NO GRAB SAMPLES COMECTED

Date: 3/21/18 Station Na Farget Pump Vol (ml) Pump Vol Before Adj (ml)	Time: (236 une: WUKF4In	A REAL PROPERTY AND A REAL	orm Visit			1
Station Na Target Pump Vol (ml)		Field Staff: A. SVE	the second se	Weather O VACAST	LYSE	
		112 CARTER AND	e: WUFF-Out	Station Name:		1
ump Vol After Adj (ml) ntake Checked? ample Line Rinsed?	200 Yes No No	Primary Device Level? Offset Before Adj (ft): Offset AfterAdj, (ft): Target Pump Vol (ml) Pump Vol Before Adj (ml)	200	Primary Device Level? Offset Before Adj. (ît): Offset AfterAdj. (ît):	- Here	No
lean Bottle? re Added? rogram Started? ubing Connected? low Conditions:	No No Yes No Rise Peak Fall (None)	Pump Vol After Adj (ml) Intake Checked? Desiccant Dry? Sample Line Rinsed? Clean Bottle?	Tes No Tes No Ves No No	Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	worr-sp	
	0	Ice Added? Program Started?	Ter No Tes No	Station Name: V	WURE-RG	
		Tubing Connected? Flow Conditions:	Rise Prick Fall On	Rain Gauge Level? Rain Gauge Unobstructed?	Yes Yes	No No
4-1 1						
	- 1300		orm Visit			
ite: 3/23/18	Time: / 300 me: WUKR-In	Field Staff: A. SVENC		Weather: OV WAST, Station/Name: V		
ate: 3/2-3/18 Station Nat ate/Time End: of Samples:	me: WUKF-In 3/22/18 1641 94	Field Staff: A . SVENC Station Name Date/Time End: # of Samples.	25%) erWUEE-Out 3[2-418_1641 93	The second s		
ate: 3/2-3/18 Station Nar ate/Time End: of Samples: umpled Without Error? st. Sample Vol (L): sual Condition:	me: WURE-In. 3/22/18 1641 94 Fes (So) 20 DALK Black MCYTUR	Field Staff: A . SVENC Station Name Date/Time End: # of Samples. Sampled Without Error? Est. Sample Vol (L): Wisual Condition:	25%) Brite BE Out SIZZIE 1641 93 March 169 164 March 100.	Station/Name: V Offset Before Adj. (ft): Offset AfterAdj. (ft): StationName: V	VUEE-RP	
ate: 3/2-3/18 Station:Nar ate/Time End: of Samples: umpled Without Error? st. Sample Vol (L): isual Condition: bitles Replaced? ent to Lab? uplicate Sample?	me: WUKK-In 3/22/18 16 41 94 Yes (No) ALK Bach Vicy TUB (Pos) No Yes (No) Yes (No)	Field Staff: A . SVENC Station Name Date/Time End: # of Samples Sampled Without Error? Est. Sample Vol (L): Visual Condition: Bottles Replaced? Sent to Lab? Duplicate Sample?	STON E: WEEF-Out SIZZIE Iby I 93 NO 164-TI MERN MCD. Fre NO Fre NO Fres NO Fres NO	Station(Name: V Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: V Offset Before Adj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	WUFF-SP	
ite: 3/2-3/18 Station:Nar ate/Time End: of Samples: mpled Without Error? t. Sample Vol (L): sual Condition: bitles Replaced? nt to Lab?	me: WUKR-In 3/22/18 16 41 94 Fes (No) ALL BOWN MENTURN (Fes) No (Fes) No	Field Staff: A . SVENC Station Name Date/Time End: # of Samples Sampled Without Error? Est. Sample Vol (L): Nisual Condition: Bottles Replaced? Sent to Lab?	STOL BETWEEF-Out SIZZIE IBY I 93 No Idefi Herry McD. Free No No No	Station/Name: V Offset Before Adj. (ft): Offset AfterAdj. (ft): Station Name: V Offset Before Adj. (ft): Offset AfterAdj. (ft): Offset AfterAdj. (ft): Measure Down (ft):	WUFF-SP	

3/22/18	Time: (2(5	Field Staff	A. SVE	NOSTA	Weather:	LIGHT	MAN	147-4
Station	Parameter	Time	pH	Bottle Type	# of Bottles	Bottie Volume (ml)	Duplicated	Flow Conditions
WUFF-In	TPH	1222	NA	HDPE Glass	2	500	yes 🖌	Rise Pear Fall Nor
WUFF-Out	TPH	1225	NA	HDPE Glass	2	500	yes no	Rise Cark Fall Nor
WUFF-In	ptt on		111					Rise Peak Fall Not
WUFF-Out	pH							Rise Peak Fall Nor

-series &

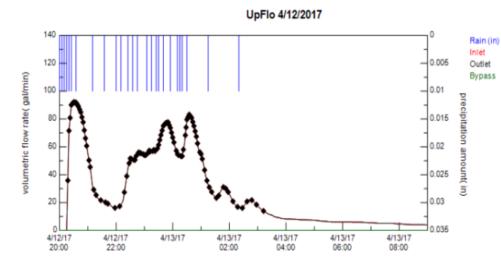
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11/15500-000 Abs Felloffe Fill Fell Form "2010) Bills

APPENDIX H

Individual Storm Reports



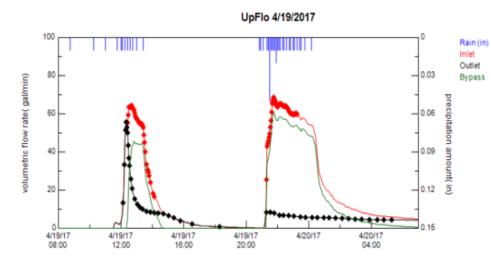


	Units	Value
Start		4/12/2017 20:00
Stop		4/13/2017 02:20
Duration	hour	6.3333
Total	in	0.26
Average Intensity	in/hr	0.0411
Maximum	in	0.01
Maximum Intensity	in/hr	0.12
Antecedent Dry Period	hour	9

	Units	Inlet	Outlet	Bypass
Start		4/12/2017 20:15	4/12/2017 20:15	
Stop		4/13/2017 08:15	4/13/2017 08:15	
Duration	hour	12.0833	12.0833	0
Average	gal/min	28.3803	28.3803	0
Maximum	gal/min	92.0985	92.0985	0
Volume	gal	20575.74	20575.74	0
Sample Count	count	100	100	0
First Sample Time		4/12/2017 20:17	4/12/2017 20:17	
Last Sample Time		4/13/2017 03:12	4/13/2017 03:12	
Sample Duration	hour	6.9167	6.9167	0
Sampled Volume	no units	18342.98	18342.98	0
Sample Coverage %	%	89.1486	89.1486	0
Average Sampled Flow	no units	56.8399	56.8399	0
Pacing Volume	no units	179	179	0

Parameter	Fraction	Units	Out 4/12/2017 00:00 Outlet Flow-Weighted Composite	IN 4/12/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	43.8 J	38.8 J
Ortho-phosphorus		mg/L	0.009 J	0.011 J
Phosphorus	Total	mg/L	0.042 J	0.046 J
Copper	Total	ug/L	18.5 J	21.8 J
Zinc	Total	ug/L	43.1 J	51.3 J
Copper	Dissolved	ug/L	14 J	14.6 J
Zinc	Dissolved	ug/L	28.6 J	31 J
Calcium	Total	mg/L	12.8 J	11.4 J
Magnesium	Total	mg/L	2.86 J	2.48 J
SSC, Total		mg/L	2.6 J	7.6 J
Total Suspended Solids		mg/L	2 J	8J
Total Volatile Suspended Solids		mg/L	1.6 J	2 J
PSD < 500 um (%passing)		%	1 J	1 J
PSD < 125 um (%passing)		%	1 J	0.89 J
PSD < 63 um (%passing)		%	0.69 J	0.77 J
PSD < 4 um (%passing)		%	0.69 J	0.13 J
D50		uM	31	20 J



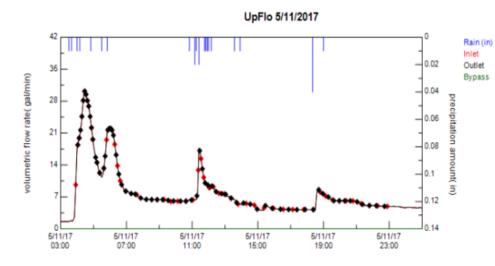


	Units	Value
Start		4/19/2017 08:45
Stop		4/19/2017 23:45
Duration	hour	15
Total	in	0.42
Average Intensity	in/hr	0.028
Maximum	in	0.05
Maximum Intensity	in/hr	0.6
Antecedent Dry Period	hour	13.75

	Units	Inlet	Outlet	Bypass
Start		4/19/2017 08:40	4/19/2017 08:40	4/19/2017 12:25
Stop		4/20/2017 06:10	4/20/2017 06:10	4/20/2017 06:10
Duration	hour	21.5833	21.5833	11.75
Average	gal <i>i</i> min	16.9818	4.9313	22.1353
Maximum	gal <i>i</i> min	68.7621	55.7272	60.7069
Volume	gal	21991.44	6386.048	15605.4
Sample Count	count	100	47	0
First Sample Time		4/19/2017 12:07	4/19/2017 12:07	
Last Sample Time		4/19/2017 23:15	4/20/2017 05:17	
Sample Duration	hour	11.125	17.1667	0
Sampled Volume	gal	14004.41	5984.039	0
Sample Coverage %	%	70.1254	93.7049	0
Average Sampled Flow	gal/min	56.3881	13.9704	0
Pacing Volume	no units	137	129	0

Parameter	Fraction	Units	Out 4/19/2017 00:00 Outlet Flow-Weighted Composite	IN 4/19/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	53.9	40.7
Ortho-phosphorus		mg/L	0.004	0.006
Phosphorus	Total	mg/L	0.022	0.154
Copper	Total	ug/L	11.3	36.2
Zinc	Total	ug/L	37.4	90.8
Copper	Dissolved	ug/L	10.4	14.2
Zinc	Dissolved	ug/L	29.4	27.2
Calcium	Total	тg/L	15.4	11.8
Magnesium	Total	mg/L	3.73	2.74
SSC, Total		mg/L	6.9 J	46.6 J
Total Suspended Solids		mg/L	31	35 J
Total Volatile Suspended Solids		mg/L	1 J	11 J
PSD < 500 um (%passing)		%	1 J	1 J
PSD < 125 um (%passing)		%	1 J	0.97 J
PSD < 63 um (%passing)		%	0.87 J	0.93 J
PSD < 4 um (%passing)		%	0.58 J	0.61 J
D50		uM	3J	3J



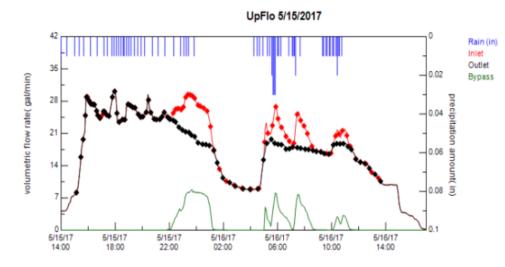


	Units	Value
Start		5/11/2017 03:30
Stop		5/11/2017 19:00
Duration	hour	15.5
Total	in	0.25
Average Intensity	in/hr	0.0161
Maximum	in	0.04
Maximum Intensity	in/hr	0.48
Antecedent Dry Period	hour	121.5

	Units	Inlet	Outlet	Bypass
Start		5/11/2017 03:30	5/11/2017 03:30	
Stop		5/12/2017 00:55	5/12/2017 00:55	
Duration	hour	21.5	21.5	0
Average	gal/min	7.6847	7.6847	0
Maximum	gal/min	30.6117	30.6117	0
Volume	gal	9913.222	9913.222	0
Sample Count	count	56	71	0
First Sample Time		5/11/2017 03:55	5/11/2017 04:02	
Last Sample Time		5/11/2017 22:52	5/11/2017 22:42	
Sample Duration	hour	18.9583	18.6667	0
Sampled Volume	no units	9233.493	9048.184	0
Sample Coverage %	%	93.1432	91.2739	0
Average Sampled Flow	no units	11.8141	11.574	0
Pacing Volume	no units	156	128	0

Parameter	Fraction	Units	Out 5/11/2017 00:00 Outlet Flow-Weighted Composite	IN 5/11/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	90.1	110
Ortho-phosphorus		mg/L	0.019	0.011
Phosphorus	Total	mg/L	0.046	0.105
Copper	Total	ug/L	20.4	29.8
Zinc	Total	ug/L	46.2	95.7
Copper	Dissolved	ug/L	17.6 J	15.2 J
Zinc	Dissolved	ug/L	36.4 J	37.9 J
Calcium	Total	mg/L	24.3	29.3
Magnesium	Total	mg/L	7.14	8.84
SSC, Total		mg/L	6.4 J	35.5 J
Total Suspended Solids		mg/L	2 J	27 J
Total Volatile Suspended Solids		mg/L	2 J	21 J
PSD < 500 um (%passing)		%	1 J	0.732824427 J
PSD < 125 um (%passing)		%	0.772727273 J	0.541984733 J
PSD < 63 um (%passing)		%	0.545454545 J	0.370229008 J
PSD < 4 um (%passing)		%	0.545454545 J	0.091603053 J
D50		uM	3.5 J	106 J





	Units	Value
Start		5/15/2017 14:00
Stop		5/16/2017 10:45
Duration	hour	20.75
Total	in	0.73
Average Intensity	in/hr	0.0352
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	41.1

	Units	Inlet	Outlet	Bypass
Start		5/15/2017 14:00	5/15/2017 14:00	5/15/2017 21:45
Stop		5/16/2017 16:45	5/16/2017 16:45	5/16/2017 16:40
Duration	hour	26.8333	26.8333	19
Average	gal/min	18.0086	16.7072	1.8378
Maximum	gal/min	30.3131	30.3131	8.8312
Volume	gal	28993.86	26898.65	2095.135
Sample Count	count	90	90	0
First Sample Time		5/15/2017 15:07	5/15/2017 15:07	
Last Sample Time		5/16/2017 13:27	5/16/2017 13:37	
Sample Duration	hour	22.3333	22.5	0
Sampled Volume	gal	27390.56	25407.8	0
Sample Coverage %	%	94.4702	94.4575	0
Average Sampled Flow	gal/min	22.5295	20.5583	0
Pacing Volume	no units	313	280	0

Parameter	Fraction	Units	IN 5/15/2017 00:00 Inlet Flow-Weighted Composite	Out 5/15/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	52.7	54.3
Ortho-phosphorus		mg/L	0.008	0.009
Phosphorus	Total	mg/L	0.052	0.04
Copper	Total	ug/L	23.1	17.8
Zinc	Total	ug/L	62.3	48
Copper	Dissolved	ug/L	13.2	10.6
Zinc	Dissolved	ug/L	29	28.3
Calcium	Total	mg/L	15	15.5
Magnesium	Total	mg/L	3.72	3.78
SSC, Total		mg/L	17.5 J	8.2 J
Total Suspended Solids		mg/L	6J	2 J
Total Volatile Suspended Solids		mg/L	6J	2 J
PSD < 500 um (%passing)		%	0.927536232 J	1 J
PSD < 125 um (%passing)		%	0.710144928 J	1 J
PSD < 63 um (%passing)		%	0.637681159 J	1 J
PSD < 4 um (%passing)		%	0.31884058 J	0.5 J
D50		uM	19 J	4 J



UpFlo 6/8/2017 60 0 Rain (in) Inlet Outlet 0.01 50 Bypass volumetric flow rate(gal/min) 0.02 40 precipitation amount(in) 0.03 30 0.04 20 0.05 10 0.06 0.07 6/8/17 17:00 0 6/8/17 01:00 6/8/17 05:00 6/8/17 09:00 6/8/17 13:00

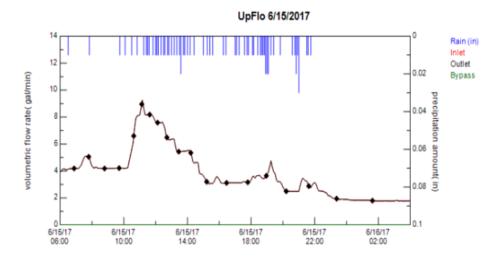
	Units	Value
Start		6/8/2017 01:05
Stop		6/8/2017 10:35
Duration	hour	9.5
Total	in	0.32
Average Intensity	in/hr	0.0337
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	171

	Units	Inlet	Outlet	Bypass
Start		6/8/2017 02:00	6/8/2017 02:00	
Stop		6/8/2017 16:30	6/8/2017 16:30	
Duration	hour	14.5833	14.5833	0
Average	gal/min	14.9674	14.9674	0
Maximum	gal/min	39.5428	39.5428	0
Volume	gal	13096.51	13096.51	0
Sample Count	count	33	42	0
First Sample Time		6/8/2017 02:05	6/8/2017 02:07	
Last Sample Time		6/8/2017 09:57	6/8/2017 13:32	
Sample Duration	hour	7.875	11.4167	0
Sampled Volume	no units	10849.7	12158.96	0
Sample Coverage %	%	82.8442	92.8412	0
Average Sampled Flow	no units	28.342	25.4364	0
Pacing Volume	no units	341	312	0

Parameter	Fraction	Units	IN 6/8/2017 00:00 Inlet Flow-Weighted Composite	Out 6/8/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	66.3	61
Ortho-phosphorus		mg/L	0.01	0.024
Phosphorus	Total	mg/L	0.36 J	0.1
Copper	Total	ug/L	79.7	34.9
Zinc	Total	ug/L	329	66.7
Copper	Dissolved	ug/L	25.3	26.9
Zinc	Dissolved	ug/L	50.3	50.5
Calcium	Total	mg/L	19.9	18.4
Magnesium	Total	mg/L	4.02	3.66
SSC, Total		mg/L	140.19 J	12.05 J
Total Suspended Solids		mg/L	98 J	5J
Total Volatile Suspended Solids		mg/L	76 J	5J
PSD < 500 um (%passing)		%	0.795127353 J	1 J
PSD < 125 um (%passing)		%	0.573643411 J	0.761904762 J
PSD < 63 um (%passing)		%	0.38538206 J	0.285714286 J
PSD < 4 um (%passing)		%	0.044296788 J	0.285714286 J
D50		uM	96 J	0.86 J





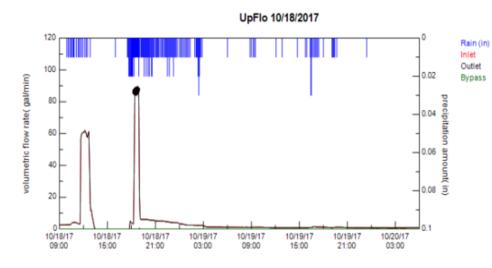


	Units	Value
Start		6/15/2017 06:30
Stop		6/15/2017 21:45
Duration	hour	15.25
Total	in	0.69
Average Intensity	in/hr	0.0452
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	165.9

	Units	Inlet	Outlet	Bypass
Start		6/15/2017 06:30	6/15/2017 06:30	
Stop		6/16/2017 03:40	6/16/2017 03:40	
Duration	hour	21.25	21.25	0
Average	gal/min	3.7893	3.7893	0
Maximum	gal/min	9.2563	9.2563	0
Volume	gal	4831.309	4831.309	0
Sample Count	count	19	19	0
First Sample Time		6/15/2017 06:52	6/15/2017 06:52	
Last Sample Time		6/16/2017 01:37	6/16/2017 01:37	
Sample Duration	hour	18.75	18.75	0
Sampled Volume	no units	4498.729	4498.729	0
Sample Coverage %	%	93.1161	93.1161	0
Average Sampled Flow	no units	4.6564	4.6564	0
Pacing Volume	no units	250	250	0

Parameter	Fraction	Units	Out 6/15/2017 00:00 Outlet Flow-Weighted Composite	IN 6/15/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	122	105
Ortho-phosphorus		mg/L	0.025	0.017
Phosphorus	Total	mg/L	0.068	0.054
Copper	Total	ug/L	10.9	35.5
Zinc	Total	ug/L	22.2	107
Copper	Dissolved	ug/L	9.77	13
Zinc	Dissolved	ug/L	20.7	30.3
Calcium	Total	mg/L	30.9	27.3
Magnesium	Total	mg/L	10.8	9.05
SSC, Total		mg/L	1.91 J	60.87 J
Total Suspended Solids		mg/L	4 J	55 J
Total Volatile Suspended Solids		mg/L	2 J	16 J
PSD < 500 um (%passing)		%	1 J	0.96031746 J
PSD < 125 um (%passing)		%	0.886363636 J	0.801587302 J
PSD < 63 um (%passing)		%	0.772727273 J	0.623015873 J
PSD < 4 um (%passing)		%	0.25 J	0.077380952 J
D50		uM	0.15 J	34 J
TPH - Diesel		mg/L	0.543	1.61
TPH - Motor Oil		mg/L	0.886	6.34

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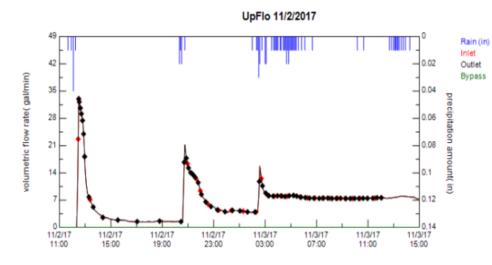


	Units	Value
Start		10/18/2017 09:55
Stop		10/19/2017 23:25
Duration	hour	37.5
Total	in	1.64
Average Intensity	in/hr	0.0437
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	22.8

	Units	Inlet	Outlet	Bypass
Start		10/18/2017 09:55	10/18/2017 09:55	10/18/2017 19:00
Stop		10/20/2017 05:25	10/20/2017 05:25	10/20/2017 05:25
Duration	hour	39.75	39.75	9.9167
Average	gal/min	4.9315	4.9276	0.0156
Maximum	gal/min	89.1331	89.1331	0.724
Volume	gal	11761.63	11752.34	9.2858
Sample Count	count	35	31	0
First Sample Time		10/18/2017 18:25	10/18/2017 18:25	
Last Sample Time		10/18/2017 18:45	10/18/2017 18:45	
Sample Duration	hour	0.3241	0.3214	0
Sampled Volume	gal	1690.356	1676.458	0
Sample Coverage %	%	14.3718	14.2649	0
Average Sampled Flow	gal/min	86.5885	86.6172	0
Pacing Volume	no units	48	54	0

Parameter	Fraction	Units	Out 10/18/2017 00:00 Outlet Flow-Weighted Composite	IN 10/18/2017 00:00 Inlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.022	0.019
Phosphorus	Total	mg/L	0.068	0.204
Copper	Total	ug/L	20.5	62.5
Zinc	Total	ug/L	54.4	234
Copper	Dissolved	ug/L	13.9	12.3
Zinc	Dissolved	ug/L	36.2	45.7
Total Suspended Solids		mg/L	15.6	87.3



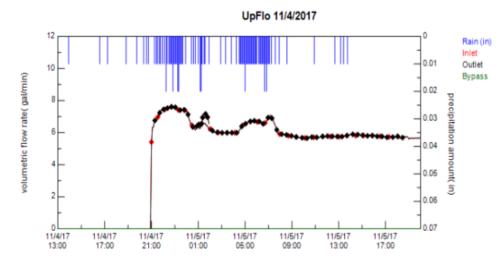


	Units	Value
Start		11/2/2017 11:40
Stop		11/3/2017 14:15
Duration	hour	26.5833
Total	in	0.67
Average Intensity	in/hr	0.0252
Maximum	in	0.04
Maximum Intensity	in/hr	0.48
Antecedent Dry Period	hour	276.9167

	Units	Inlet	Outlet	Bypass
Start		11/2/2017 12:25	11/2/2017 12:25	
Stop		11/3/2017 14:15	11/3/2017 14:15	
Duration	hour	25.9167	25.9167	0
Average	gal/min	6.4585	6.4585	0
Maximum	gal/min	33.022	33.022	0
Volume	gal	10042.97	10042.97	0
Sample Count	count	35	60	0
First Sample Time		11/2/2017 12:27	11/2/2017 12:30	
Last Sample Time		11/3/2017 12:02	11/3/2017 12:02	
Sample Duration	hour	23.5833	23.5417	0
Sampled Volume	no units	8870.823	8788.268	0
Sample Coverage %	%	88.3287	87.5067	0
Average Sampled Flow	no units	10.7732	10.0513	0
Pacing Volume	no units	253	150	0

Parameter	Fraction	Units	IN 11/2/2017 00:00 Inlet Flow-Weighted Composite	Out 11/2/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	72.1	69.3
Ortho-phosphorus		mg/L	0.022	0.021
Phosphorus	Total	mg/L	0.188	0.064
Copper	Total	ug/L	26.8	18.9
Zinc	Total	ug/L	112	53.2
Copper	Dissolved	ug/L	12.2 J	14.1 J
Zinc	Dissolved	ug/L	36.5 J	36.2 J
Calcium	Total	mg/L	18.9	18.8
Magnesium	Total	mg/L	6.02	5.45
SSC, Total		mg/L	44.21	6.98
Total Suspended Solids		mg/L	40 J	9J
PSD < 500 um (%passing)		%	0.941176471 J	1 J
PSD < 125 um (%passing)		%	0.694117647 J	0.9 J
PSD < 63 um (%passing)		%	0.423529412 J	0.85 J
PSD < 4 um (%passing)		%	0.303529412 J	0.85 J
D50		uM	76 J	11 J
TPH - Diesel		mg/L	1.21 J	1.52 J
TPH - Motor Oil		mg/L	2.26 J	2.69 J

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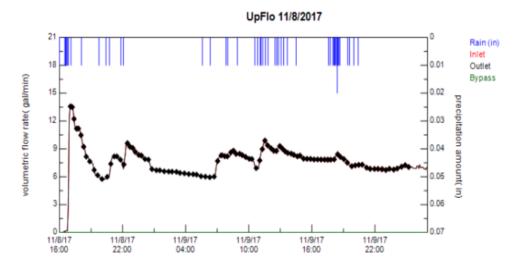


	Units	Value
Start		11/4/2017 13:55
Stop		11/5/2017 13:45
Duration	hour	23.8333
Total	in	0.97
Average Intensity	in/hr	0.0407
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	24.3

	Units	Inlet	Outlet	Bypass
Start		11/4/2017 21:00	11/4/2017 21:00	
Stop		11/5/2017 19:40	11/5/2017 19:40	
Duration	hour	23.75	23.75	0
Average	gal/min	6.211	6.211	0
Maximum	gal/min	7.6762	7.6762	0
Volume	gal	8850.661	8850.661	0
Sample Count	count	34	56	0
First Sample Time		11/4/2017 21:00	11/4/2017 21:17	
Last Sample Time		11/5/2017 18:02	11/5/2017 18:27	
Sample Duration	hour	21.0417	21.1667	0
Sampled Volume	no units	8269.749	8297.758	0
Sample Coverage %	%	93.4365	93.753	0
Average Sampled Flow	no units	6.292	6.3298	0
Pacing Volume	no units	257	147	0

Parameter	Fraction	Units	IN 11/4/2017 00:00 Inlet Flow-Weighted Composite	Out 11/4/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	51.8	49.8
Ortho-phosphorus		mg/L	0.025	0.013
Phosphorus	Total	mg/L	0.044	0.028
Copper	Total	ug/L	16.3	11.2
Zinc	Total	ug/L	57.3	36.5
Copper	Dissolved	ug/L	8.47 J	8.79 J
Zinc	Dissolved	ug/L	25.7 J	27.2 J
Calcium	Total	mg/L	14	13.6
Magnesium	Total	mg/L	4.08	3.87
SSC, Total		mg/L	20.5	3.13
Total Suspended Solids		mg/L	17 J	2 J
PSD < 500 um (%passing)		%	0.837837838 J	1 J
PSD < 125 um (%passing)		%	0.702702703 J	1 J
PSD < 63 um (%passing)		%	0.621621622 J	1 J
PSD < 4 um (%passing)		%	0.124324324 J	0.5 J
D50		uM	32 J	4 J



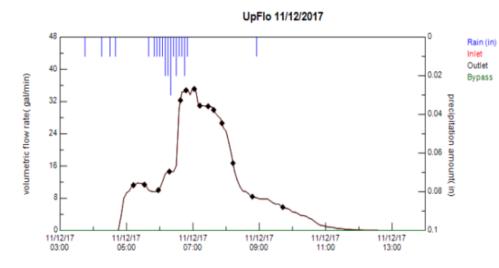


	Units	Value
Start		11/8/2017 16:00
Stop		11/9/2017 20:25
Duration	hour	28.4167
Total	in	0.48
Average Intensity	in/hr	0.0169
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	75.3333

	Units	Inlet	Outlet	Bypass
Start		11/8/2017 16:20	11/8/2017 16:20	
Stop		11/10/2017 02:20	11/10/2017 02:20	
Duration	hour	34.0833	34.0833	0
Average	gal/min	7.56	7.56	0
Maximum	gal/min	13.5966	13.5966	0
Volume	gal	15460.3	15460.3	0
Sample Count	count	69	100	0
First Sample Time		11/8/2017 17:02	11/8/2017 17:02	
Last Sample Time		11/10/2017 01:12	11/10/2017 01:12	
Sample Duration	hour	32.1667	32.1667	0
Sampled Volume	no units	14805.45	14805.45	0
Sample Coverage %	%	95.7643	95.7643	0
Average Sampled Flow	no units	8.3989	7.922	0
Pacing Volume	no units	151	151	0

Parameter	Fraction	Units	Out 11/8/2017 00:00 Outlet Flow-Weighted Composite	IN 11/8/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	96.4	78.5 J
Ortho-phosphorus		mg/L	0.007	0.01
Phosphorus	Total	mg/L	0.038	0.082
Copper	Total	ug/L	17	26.9
Zinc	Total	ug/L	51.8	88.6
Copper	Dissolved	ug/L	11 J	12.3 J
Zinc	Dissolved	ug/L	34.8 J	40.6 J
Calcium	Total	mg/L	26.1	21.5
Magnesium	Total	mg/L	7.61	6.04
SSC, Total		mg/L	5.5	24.9
Total Suspended Solids		mg/L	7 J	21 J
PSD < 500 um (%passing)		%	1 J	0.922680412 J
PSD < 125 um (%passing)		%	0.93902439 J	0.793814433 J
PSD < 63 um (%passing)		%	0.695121951 J	0.639175258 J
PSD < 4 um (%passing)		%	0.134146341 J	0.190721649 J
D50		uM	24 J	27 J





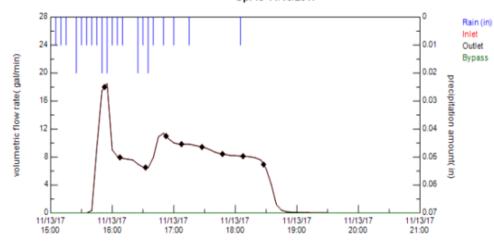
	Units	Value
Start		11/12/2017 03:45
Stop		11/12/2017 08:55
Duration	hour	5.1667
Total	in	0.25
Average Intensity	in/hr	0.0484
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	15.8

	Units	Inlet	Outlet	Bypass
Start		11/12/2017 04:50	11/12/2017 04:50	
Stop		11/12/2017 13:05	11/12/2017 13:05	
Duration	hour	8.3333	8.3333	0
Average	gal/min	10.5097	10.5097	0
Maximum	gal/min	35.4239	35.4239	0
Volume	gal	5254.871	5254.871	0
Sample Count	count	11	14	0
First Sample Time		11/12/2017 05:12	11/12/2017 05:12	
Last Sample Time		11/12/2017 07:52	11/12/2017 09:42	
Sample Duration	hour	2.6667	4.5	0
Sampled Volume	no units	3546.298	4732.676	0
Sample Coverage %	%	90.0627	90.0627	0
Average Sampled Flow	no units	24.3608	21.3502	0
Pacing Volume	no units	333	399	0

Parameter	Fraction	Units	IN 11/12/2017 00:00 Inlet Flow-Weighted Composite	Out 11/12/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	37	40.2
Ortho-phosphorus		mg/L	0.009	0.007
Phosphorus	Total	mg/L	0.07	0.042
Copper	Total	ug/L	22	18.1
Zinc	Total	ug/L	71.7	62.9
Copper	Dissolved	ug/L	7.14 J	7.18 J
Zinc	Dissolved	ug/L	24.2 J	24.6 J
Calcium	Total	mg/L	10.5	11.3
Magnesium	Total	mg/L	2.58	2.9
SSC, Total		mg/L	38	17.5
Total Suspended Solids		mg/L	28 J	14 J
PSD < 500 um (%passing)		%	0.943181818 J	0.962121212 J
PSD < 125 um (%passing)		%	0.829545455 J	0.848484848 J
PSD < 63 um (%passing)		%	0.640151515 J	0.696969697 J
PSD < 4 um (%passing)		%	0.090909091 J	0.083333333 J
D50		uM	31 J	26 J



UpFlo 11/13/2017

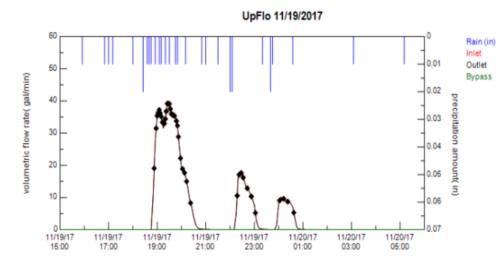


	Units	Value
Start		11/13/2017 15:05
Stop		11/13/2017 18:05
Duration	hour	3
Total	in	0.26
Average Intensity	in/hr	0.0867
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	12.4

	Units	Inlet	Outlet	Bypass
Start		11/13/2017 15:40	11/13/2017 15:40	
Stop		11/13/2017 20:00	11/13/2017 20:00	
Duration	hour	4.4167	4.4167	0
Average	gal/min	6.0109	6.0109	0
Maximum	gal/min	18.5117	18.5117	0
Volume	gal	1592.897	1592.897	0
Sample Count	count	8	9	0
First Sample Time		11/13/2017 15:52	11/13/2017 15:52	
Last Sample Time		11/13/2017 18:07	11/13/2017 18:27	
Sample Duration	hour	2.25	2.5833	0
Sampled Volume	no units	1208.768	1362.193	0
Sample Coverage %	%	75.8849	85.5167	0
Average Sampled Flow	no units	9.9169	9.5861	0
Pacing Volume	no units	180	170	0

Parameter	Fraction	Units	Out 11/13/2017 00:00 Outlet Flow-Weighted Composite	IN 11/13/2017 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	50.6	34
Ortho-phosphorus		mg/L	0.018	0.014
Phosphorus	Total	mg/L	0.096	0.148
Copper	Total	ug/L	12.6	12.8
Zinc	Total	ug/L	36.5 J	41 J
Copper	Dissolved	ug/L	34.2 J	49.1 J
Zinc	Dissolved	ug/L	86.5 J	158 J
Calcium	Total	mg/L	13.7	9.87
Magnesium	Total	mg/L	3.98	2.28
SSC, Total		mg/L	16	66.8
Total Suspended Solids		mg/L	28 J	74 J
PSD < 500 um (%passing)		%	0.983552632 J	0.966931217 J
PSD < 125 um (%passing)		%	0.934210526 J	0.880952381 J
PSD < 63 um (%passing)		%	0.868421053 J	0.808201058 J
PSD < 4 um (%passing)		%	0.453947368 J	0.343915344 J
D50		uM	5J	10 J



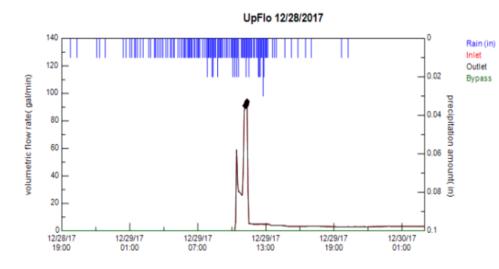


	Units	Value
Start		11/19/2017 15:55
Stop		11/20/2017 05:10
Duration	hour	13.25
Total	in	0.32
Average Intensity	in/hr	0.0242
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	77.0833

	Units	Inlet	Outlet	Bypass
Start		11/19/2017 18:45	11/19/2017 18:45	
Stop		11/20/2017 01:40	11/20/2017 01:40	
Duration	hour	6.5	6.5	0
Average	gal/min	9.6519	9.6519	0
Maximum	gal/min	39.184	39.184	0
Volume	gal	3764.25	3764.25	0
Sample Count	count	24	38	0
First Sample Time		11/19/2017 18:57	11/19/2017 18:52	
Last Sample Time		11/20/2017 00:22	11/20/2017 00:37	
Sample Duration	hour	5.4167	5.75	0
Sampled Volume	no units	3362.353	3626.14	0
Sample Coverage %	%	89.3233	96.331	0
Average Sampled Flow	no units	27.1309	25.4226	0
Pacing Volume	no units	98	90	0

Parameter	Fraction	Units	IN 11/19/2017 00:00 Inlet Flow-Weighted Composite	Out 11/19/2017 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	33.8	37.1
Ortho-phosphorus		mg/L	0.004	0.004
Phosphorus	Total	mg/L	0.082	0.09
Copper	Total	ug/L	30.4	28.2
Zinc	Total	ug/L	93.9	94.6
Copper	Dissolved	ug/L	10.1 J	10.5 J
Zinc	Dissolved	ug/L	37.1 J	33 J
Calcium	Total	mg/L	10.3	11.1
Magnesium	Total	mg/L	1.98	2.26
SSC, Total		mg/L	38.1 J	30.9 J
Total Suspended Solids		mg/L	44.6 J	26.6 J



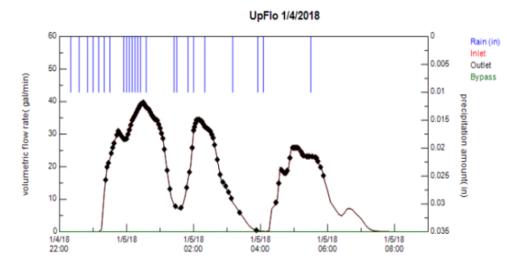


	Units	Value
Start		12/28/2017 19:45
Stop		12/29/2017 20:15
Duration	hour	24.5
Total	in	1.31
Average Intensity	in/hr	0.0535
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	55.2

	Units	Inlet	Outlet	Bypass
Start		12/28/2017 22:55	12/29/2017 10:20	12/28/2017 22:55
Stop		12/30/2017 02:10	12/30/2017 02:10	12/30/2017 02:10
Duration	hour	26.1667	15.9167	14.0833
Average	gal/min	4.1089	6.751	0.0045
Maximum	gal/min	94.1962	94.1962	0.0132
Volume	gal	6450.991	6447.18	3.8127
Sample Count	count	22	23	0
First Sample Time		12/29/2017 11:10	12/29/2017 11:10	
Last Sample Time		12/29/2017 11:20	12/29/2017 11:20	
Sample Duration	hour	0.1625	0.162	0
Sampled Volume	gal	903.8811	901.3501	0
Sample Coverage %	%	14.0115	13.9805	0
Average Sampled Flow	gal/min	91.364	91.5517	0
Pacing Volume	no units	23	25	0

Parameter	Fraction	Units	IN 12/28/2017 00:00 Inlet Flow-Weighted Composite	Out 12/28/2017 00:00 Outlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.017	0.011
Phosphorus	Total	mg/L	0.142	0.07
Total Suspended Solids		mg/L	20 J	5J
Total Volatile Suspended Solids		mg/L	17 J	31
PSD < 500 um (%passing)		%	0.974489796 J	1 J
PSD < 125 um (%passing)		%	0.923469388 J	1 J
PSD < 63 um (%passing)		%	0.846938776 J	0.919354839 J
PSD < 4 um (%passing)		%	0.392857143 J	0.370967742 J
D50		uM	8J	8J
TPH - Diesel		mg/L	0.502	0.363
TPH - Motor Oil		mg/L	1.56	0.954



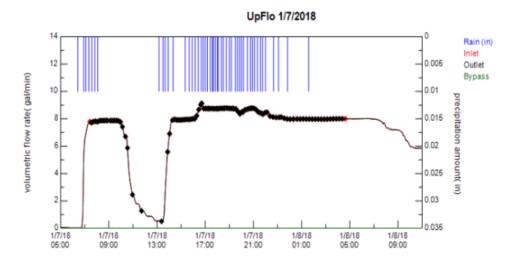


	Units	Value
Start		1/4/2018 22:20
Stop		1/5/2018 05:30
Duration	hour	7.1667
Total	in	0.24
Average Intensity	in/hr	0.0335
Maximum	in	0.01
Maximum Intensity	in/hr	0.12
Antecedent Dry Period	hour	149.8333

	Units	Inlet	Outlet	Bypass
Start		1/4/2018 23:15	1/4/2018 23:15	
Stop		1/5/2018 08:15	1/5/2018 08:15	
Duration	hour	9.0833	9.0833	0
Average	gal/min	15.6291	15.6291	0
Maximum	gal/min	39.7364	39.7364	0
Volume	gal	8517.852	8517.852	0
Sample Count	count	72	100	0
First Sample Time		1/4/2018 23:37	1/4/2018 23:22	
Last Sample Time		1/5/2018 05:42	1/5/2018 05:52	
Sample Duration	hour	6.0833	6.5	0
Sampled Volume	no units	7343.033	7891.497	0
Sample Coverage %	%	86.2076	92.6466	0
Average Sampled Flow	no units	30.2053	26.9286	0
Pacing Volume	no units	80	77	0

Parameter	Fraction	Units	IN 1/4/2018 00:00 Inlet Flow-Weighted Composite	Out 1/4/2018 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	49.5	59.9
Ortho-phosphorus		mg/L	0.012	0.012
Phosphorus	Total	mg/L	0.122	0.048
Copper	Total	ug/L	30.5	16.4
Zinc	Total	ug/L	96.1	51.4
Copper	Dissolved	ug/L	11.7 J	12 J
Zinc	Dissolved	ug/L	36.3 J	39.2 J
Calcium	Total	mg/L	14.1	17
Magnesium	Total	mg/L	3.48	4.22
Total Volatile Suspended Solids		mg/L	30 J	4 J
Total Suspended Solids		mg/L	30 J	4 J
PSD < 500 um (%passing)		%	0.993243243 J	1 J
PSD < 125 um (%passing)		%	0.935810811 J	0.951219512 J
PSD < 63 um (%passing)		%	0.885135135 J	0.902439024 J
PSD < 4 um (%passing)		%	0.577702703 J	0.658536585 J
D50		uM	3J	31



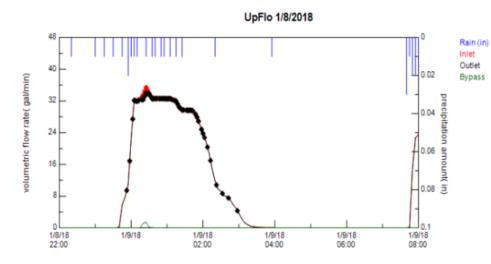


	Units	Value
Start		1/7/2018 06:25
Stop		1/8/2018 01:35
Duration	hour	19.1667
Total	in	0.49
Average Intensity	in/hr	0.0256
Maximum	in	0.01
Maximum Intensity	in/hr	0.12
Antecedent Dry Period	hour	19.4167

	Units	Inlet	Outlet	Bypass
Start		1/7/2018 05:40	1/7/2018 05:40	
Stop		1/8/2018 10:45	1/8/2018 10:45	
Duration	hour	29.1667	29.1667	0
Average	gal/min	6.8709	6.8709	0
Maximum	gal/min	9.3147	9.3147	0
Volume	gal	12024.15	12024.15	0
Sample Count	count	96	100	0
First Sample Time		1/7/2018 07:25	1/7/2018 07:32	
Last Sample Time		1/8/2018 04:37	1/8/2018 04:22	
Sample Duration	hour	21.2083	20.8333	0
Sampled Volume	no units	9067.804	8889.981	0
Sample Coverage %	%	75.4133	73.9344	0
Average Sampled Flow	no units	8.2178	7.9724	0
Pacing Volume	no units	87	86	0

Parameter	Fraction	Units	IN 1/7/2018 00:00 Inlet Flow-Weighted Composite	Out 1/7/2018 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	70.2	74.9
Ortho-phosphorus		mg/L	0.008	0.007
Phosphorus	Total	mg/L	0.03	0.048
Copper	Total	ug/L	19.2	18.2
Zinc	Total	ug/L	64.8	62.5
Copper	Dissolved	ug/L	9.88 J	10.3 J
Zinc	Dissolved	ug/L	36.1 J	38.5 J
Calcium	Total	mg/L	20.2	21.5
Magnesium	Total	mg/L	4.81	5.17
Total Volatile Suspended Solids		mg/L	9.5 J	5J
Total Suspended Solids		mg/L	13.5 J	8J
PSD < 500 um (%passing)		%	0.98333333 J	1 J
PSD < 125 um (%passing)		%	0.925 J	0.975308642 J
PSD < 63 um (%passing)		%	0.883333333 J	0.938271605 J
PSD < 4 um (%passing)		%	0.658333333 J	0.666666667 J
D50		uM	3 J	3 J

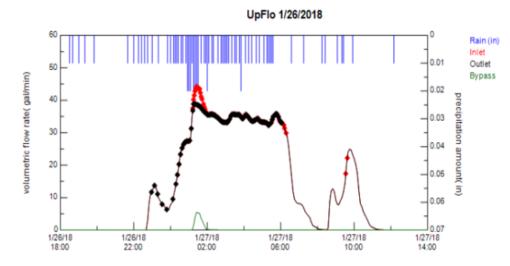




	Units	Value
Start		1/8/2018 22:20
Stop		1/9/2018 03:55
Duration	hour	5.5833
Total	in	0.2
Average Intensity	in/hr	0.0358
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	23.6667

	Units	Inlet	Outlet	Bypass
Start		1/8/2018 23:40	1/8/2018 23:40	1/9/2018 00:15
Stop		1/9/2018 07:25	1/9/2018 04:35	1/9/2018 07:25
Duration	hour	7.8333	5	7.25
Average	gal <i>i</i> min	9.8574	15.3866	0.039
Maximum	gal <i>i</i> min	35.4223	33.9779	1.4444
Volume	gal	4632.968	4615.985	16.9828
Sample Count	count	43	51	0
First Sample Time		1/8/2018 23:57	1/8/2018 23:52	
Last Sample Time		1/9/2018 02:00	1/9/2018 02:57	
Sample Duration	hour	2.0417	3.0833	0
Sampled Volume	gal	3798.669	4480.616	0
Sample Coverage %	%	81.9921	97.0674	0
Average Sampled Flow	gal/min	30.9531	27.9536	0
Pacing Volume	no units	82	81	0

Parameter	Fraction	Units	Out 1/8/2018 00:00 Outlet Flow-Weighted Composite	IN 1/8/2018 00:00 Inlet Flow-Weighted Composite
Hardness		mg/L	51.5	39.2
Ortho-phosphorus		mg/L	0.007	0.005
Phosphorus	Total	mg/L	0.034	0.038
Copper	Total	ug/L	18.3	21.4
Zinc	Total	ug/L	60.7	66.2
Copper	Dissolved	ug/L	8.48 J	8.28 J
Zinc	Dissolved	ug/L	30 J	28.2 J
Calcium	Total	mg/L	15	11.9
Magnesium	Total	mg/L	3.43	2.33
Total Volatile Suspended Solids		mg/L	9J	11.5 J
Total Suspended Solids		mg/L	17.5 J	23 J
SSC, Total		mg/L	17.7 J	22.5 J
PSD < 500 um (%passing)		%	0.98757764 J	0.978540773 J
PSD < 125 um (%passing)		%	0.944099379 J	0.927038627 J
PSD < 63 um (%passing)		%	0.925465839 J	0.905579399 J
PSD < 4 um (%passing)		%	0.49689441 J	0.489270386 J
D50		uM	4 J	4 J

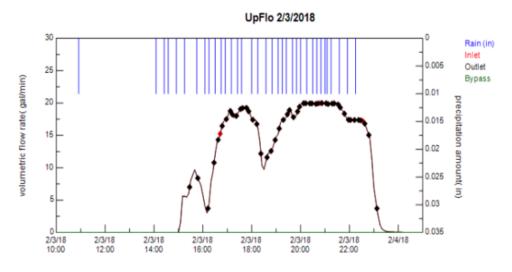


	Units	Value
Start		1/26/2018 18:30
Stop		1/27/2018 12:10
Duration	hour	17.6667
Total	in	0.78
Average Intensity	in/hr	0.0442
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	29.9

	Units	Inlet	Outlet	Bypass
Start		1/26/2018 22:45	1/26/2018 22:45	1/27/2018 01:15
Stop		1/27/2018 13:40	1/27/2018 12:15	1/27/2018 13:40
Duration	hour	14.1667	13.5833	11.4167
Average	gal/min	18.4823	19.0755	0.2386
Maximum	gal/min	44.2186	38.8585	5.416
Volume	gal	15709.92	15546.5	163.4294
Sample Count	count	100	100	0
First Sample Time		1/27/2018 00:22	1/26/2018 22:57	
Last Sample Time		1/27/2018 09:37	1/27/2018 06:02	
Sample Duration	hour	9.25	7.0833	0
Sampled Volume	gal	13728.2	12338.33	0
Sample Coverage %	%	87.3855	79.364	0
Average Sampled Flow	gal/min	34.1772	32.3219	0
Pacing Volume	no units	109	104	0

Parameter	Fraction	Units	Out 1/27/2018 00:00 Outlet Flow-Weighted Composite	IN 1/27/2018 00:00 Inlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.006 J	0.005 J
Phosphorus	Total	mg/L	0.048	0.032
Total Suspended Solids		mg/L	19.5 J	24 J
SSC, Total		mg/L	21.8 J	27 J
PSD < 500 um (%passing)		%	0.891304348 J	0.901818182 J
PSD < 125 um (%passing)		%	0.77173913 J	0.821818182 J
PSD < 63 um (%passi⊓g)		%	0.690217391 J	0.749090909 J
PSD < 4 um (%passing)		%	0.298913043 J	0.265454545 J
D50		uM	16 J	15 J





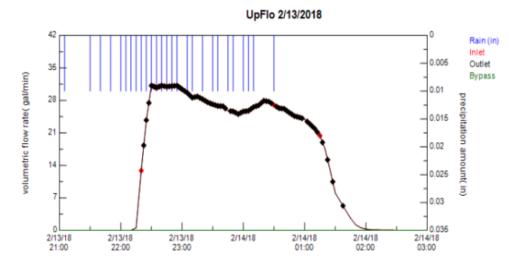
	Units	Value
Start		2/3/2018 10:55
Stop		2/3/2018 22:15
Duration	hour	11.3333
Total	in	0.35
Average Intensity	in/hr	0.0309
Maximum	in	0.01
Maximum Intensity	in/hr	0.12
Antecedent Dry Period	hour	30.3

	Units	Inlet	Outlet	Bypass
Start		2/3/2018 15:05	2/3/2018 15:05	
Stop		2/4/2018 00:45	2/4/2018 00:45	
Duration	hour	9.75	9.75	0
Average	gal/min	12.6874	12.6874	0
Maximum	gal/min	19.9802	19.9802	0
Volume	gal	7422.1	7422.1	0
Sample Count	count	49	49	0
First Sample Time		2/3/2018 15:27	2/3/2018 15:27	
Last Sample Time		2/3/2018 23:07	2/3/2018 23:07	
Sample Duration	hour	7.6667	7.6667	0
Sampled Volume	no units	7259.803	7259.803	0
Sample Coverage %	%	97.8133	97.8133	0
Average Sampled Flow	no units	16.7536	16.7355	0
Pacing Volume	no units	172	165	0

Parameter	Fraction	Units	IN 2/3/2018 00:00 Inlet Flow-Weighted Composite	Out 2/3/2018 00:00 Outlet Flow-Weighted Composite
Hardness		mg/L	40.1	39.2
Ortho-phosphorus		mg/L	0.01	0.013
Phosphorus	Total	mg/L	0.084	0.046
Copper	Total	ug/L	33	22.7
Zinc	Total	ug/L	99.9	63
Copper	Dissolved	ug/L	10.7 J	10.6 J
Zinc	Dissolved	ug/L	31.3 J	31.1 J
Calcium	Total	mg/L	11.9	11.6
Magnesium	Total	mg/L	2.55	2.46
Total Volatile Suspended Solids		mg/L	19.5 J	11 J
Total Suspended Solids		mg/L	27.5 J	16 J
SSC, Total		mg/L	73.4	16.4
PSD < 500 um (%passing)		%	0.902597403 J	0.98757764 J
PSD < 125 um (%passing)		%	0.805194805 J	0.944099379 J
PSD < 63 um (%passing)		%	0.74025974 J	0.900621118 J
PSD < 4 um (%passing)		%	0.230519481 J	0.310559006 J
D50		uM	17 J	10 J







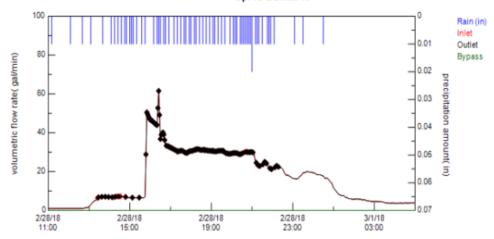
	Units	Value
Start		2/13/2018 21:05
Stop		2/14/2018 00:30
Duration	hour	3.4167
Total	in	0.27
Average Intensity	in/hr	0.079
Maximum	in	0.01
Maximum Intensity	in/hr	0.12
Antecedent Dry Period	hour	96.6

	Units	Inlet	Outlet	Bypass
Start		2/13/2018 22:15	2/13/2018 22:15	
Stop		2/14/2018 02:50	2/14/2018 02:50	
Duration	hour	4.6667	4.6667	0
Average	gal/min	18.0755	18.0755	0
Maximum	gal/min	31.1912	31.1912	0
Volume	gal	5061.152	5061.152	0
Sample Count	count	72	72	0
First Sample Time		2/13/2018 22:20	2/13/2018 22:22	
Last Sample Time		2/14/2018 01:27	2/14/2018 01:37	
Sample Duration	hour	3.125	3.25	0
Sampled Volume	no units	4894.829	4897.642	0
Sample Coverage %	%	96.7137	96.7693	0
Average Sampled Flow	no units	26.4608	26.3867	0
Pacing Volume	no units	67	67	0

Parameter	Fraction	Units	IN 2/13/2018 00:00 Inlet Flow-Weighted Composite	Out 2/13/2018 00:00 Outlet Flow-Weighted Composite
Ortho-phosphorus		тg/L	0.017	0.015
Phosphorus	Total	тg/L	0.096	0.086
Total Suspended Solids		mg/L	28 J	16.2 J
PSD < 500 um (%passing)		%	0.801324503 J	0.956790123 J
PSD < 125 um (%passing)		%	0.695364238 J	0.895061728 J
PSD < 63 um (%passing)		%	0.639072848 J	0.820987654 J
PSD < 4 um (%passing)		%	0.225165563 J	0.271604938 J
D50		uM	25 J	13 J



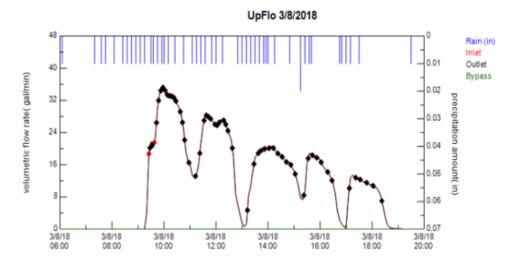




	Units	Value
Start		2/28/2018 12:05
Stop		3/1/2018 00:30
Duration	hour	12.4167
Total	in	0.65
Average Intensity	in/hr	0.0523
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	13

	Units	Inlet	Outlet	Bypass
Start		2/28/2018 11:10	2/28/2018 11:10	
Stop		3/1/2018 04:05	3/1/2018 04:05	
Duration	hour	17	17	0
Average	gal/min	17.1454	17.1454	0
Maximum	gal/min	61.5883	61.5883	0
Volume	gal	17488.29	17488.29	0
Sample Count	count	100	100	0
First Sample Time		2/28/2018 13:25	2/28/2018 13:27	
Last Sample Time		2/28/2018 22:12	2/28/2018 22:17	
Sample Duration	hour	8.7917	8.8333	0
Sampled Volume	no units	13164.13	13258.84	0
Sample Coverage %	%	75.274	75.8156	0
Average Sampled Flow	no units	30.3038	30.4616	0
Pacing Volume	no units	147	147	0

Parameter	Fraction	Units	Out 2/28/2018 00:00 Outlet Flow-Weighted Composite	IN 2/28/2018 00:00 Inlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.022 J	0.016 J
Phosphorus	Total	mg/L	0.056	0.112
Copper	Total	ug/L	20.3	41.1
Zinc	Total	ug/L	65.7	138
Total Suspended Solids		mg/L	5.5 J	46 J
PSD < 500 um (%passing)		%	1 J	0.9958159 J
PSD < 125 um (%passing)		%	0.920634921 J	0.964435146 J
PSD < 63 um (%passing)		%	0.80952381 J	0.922594142 J
PSD < 4 um (%passing)		%	0.317460317 J	0.757322176 J
D50		uM	11 J	2 J
TPH - Diesel		mg/L	0.646	1.27
TPH - Motor Oil		mg/L	1.34	4.1



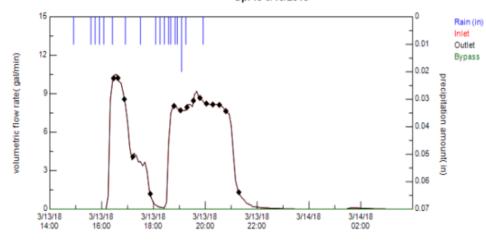
	Units	Value
Start		3/8/2018 06:05
Stop		3/8/2018 19:30
Duration	hour	13.4167
Total	in	0.48
Average Intensity	in/hr	0.0358
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	7.2

	Units	Inlet	Outlet	Bypass
Start		3/8/2018 09:20	3/8/2018 09:20	
Stop		3/8/2018 19:30	3/8/2018 19:30	
Duration	hour	10.25	10.25	0
Average	gal/min	15.3506	15.3506	0
Maximum	gal/min	35.2657	35.2657	0
Volume	gal	9440.6	9440.6	0
Sample Count	count	54	54	0
First Sample Time		3/8/2018 09:25	3/8/2018 09:27	
Last Sample Time		3/8/2018 18:02	3/8/2018 18:22	
Sample Duration	hour	8.625	8.9167	0
Sampled Volume	no units	9102.11	9228.735	0
Sample Coverage %	%	96.4145	97.7558	0
Average Sampled Flow	no units	21.5953	21.3636	0
Pacing Volume	no units	172	172	0

Parameter	Fraction	Units	IN 3/8/2018 00:00 Inlet Flow-Weighted Composite	Out 3/8/2018 00:00 Outlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.012 J	0.014 J
Phosphorus	Total	mg/L	0.138	0.058
Copper	Total	ug/L	45.9	26.6
Zinc	Total	ug/L	142	77.4
Total Suspended Solids		mg/L	60 J	12 J
PSD < 500 um (%passing)		%	0.97955707 J	1 J
PSD < 125 um (%passing)		%	0.94548552 J	0.983471074 J
PSD < 63 um (%passing)		%	0.919931857 J	0.94214876 J
PSD < 4 um (%passing)		%	0.620102215 J	0.719008264 J
D50		uM	3 J	3 J
TPH - Diesel		mg/L	0.499	0.325
TPH - Motor Oil		mg/L	1.87	0.832



UpFlo 3/13/2018

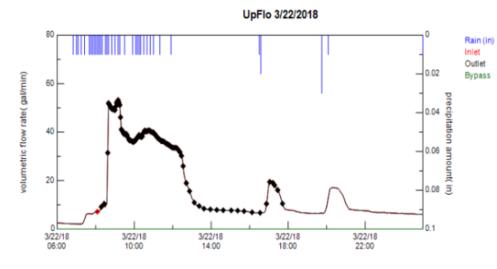


	Units	Value
Start		3/13/2018 14:55
Stop		3/13/2018 19:55
Duration	hour	5
Total	in	0.19
Average Intensity	in/hr	0.038
Maximum	in	0.02
Maximum Intensity	in/hr	0.24
Antecedent Dry Period	hour	117.9

	Units	Inlet	Outlet	Bypass
Start		3/13/2018 16:15	3/13/2018 16:15	
Stop		3/14/2018 03:05	3/14/2018 03:05	
Duration	hour	9.0833	9.0833	0
Average	gal/min	3.451	3.451	0
Maximum	gal/min	10.5105	10.5105	0
Volume	gal	1880.779	1880.779	0
Sample Count	count	11	15	0
First Sample Time		3/13/2018 16:27	3/13/2018 16:27	
Last Sample Time		3/13/2018 20:47	3/13/2018 21:17	
Sample Duration	hour	4.3333	4.8333	0
Sampled Volume	no units	1595.291	1727.049	0
Sample Coverage %	%	84.8208	91.8263	0
Average Sampled Flow	no units	8.5006	7.2469	0
Pacing Volume	no units	123	123	0

Parameter	Fraction	Units	IN 3/13/2018 00:00 Inlet Flow-Weighted Composite	Out 3/13/2018 00:00 Outlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.013 J	0.011 J
Phosphorus	Total	mg/L	0.14	0.064
Copper	Total	ug/L	47.5	23.8
Zinc	Total	ug/L	182	77.8
Total Suspended Solids		mg/L	58 J	11.5 J
PSD < 500 um (%passing)		%	0.98 J	1 J
PSD < 125 um (%passing)		%	0.9 J	0.91 J
PSD < 63 um (%passing)		%	0.86 J	0.87 J
PSD < 4 um (%passing)		%	0.45 J	0.24 J
D50		uM	6J	13 J





	Units	Value
Start		3/22/2018 06:50
Stop		3/22/2018 20:05
Duration	hour	13.25
Total	in	0.4
Average Intensity	in/hr	0.0302
Maximum	in	0.03
Maximum Intensity	in/hr	0.36
Antecedent Dry Period	hour	5.75

	Units	Inlet	Outlet	Bypass
Start		3/22/2018 06:40	3/22/2018 06:40	
Stop		3/23/2018 00:55	3/23/2018 00:55	
Duration	hour	18.3333	18.3333	0
Average	gal/min	15.1159	15.1159	0
Maximum	gal/min	53.2218	53.2218	0
Volume	gal	16627.47	16627.47	0
Sample Count	count	81	93	0
First Sample Time		3/22/2018 08:05	3/22/2018 08:17	
Last Sample Time		3/22/2018 17:27	3/22/2018 17:42	
Sample Duration	hour	9.375	9.4167	0
Sampled Volume	no units	12524.15	12610.79	0
Sample Coverage %	%	75.322	75.8431	0
Average Sampled Flow	no units	37.2506	33.6122	0
Pacing Volume	no units	124	130	0

Parameter	Fraction	Units	Out 3/22/2018 00:00 Outlet Flow-Weighted Composite	IN 3/22/2018 00:00 Inlet Flow-Weighted Composite
Ortho-phosphorus		mg/L	0.011 J	0.012 J
Phosphorus	Total	mg/L	0.1	0.14
Copper	Total	ug/L	36.3	51.4
Zinc	Total	ug/L	106	151
Total Suspended Solids		mg/L	28 J	74.5 J
PSD < 500 um (%passing)		%	0.963099631 J	0.927219796 J
PSD < 125 um (%passing)		%	0.863468635 J	0.828238719 J
PSD < 63 um (%passing)		%	0.686346863 J	0.745269287 J
PSD < 4 um (%passing)		%	0.250922509 J	0.170305677 J
D50		uM	19 J	19 J
TPH - Diesel		mg/L	0.2	0.571
TPH - Motor Oil		mg/L	0.325	1.79



APPENDIX I

Laboratory Reports

