

APPENDIX H

Field Forms

FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID:

2017-05-11



HERRERA

Pre-Storm Visit

Date: 6-10-17	Time: 16:00	Field Staff: M Muller	Weather: sunny 68°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	—	Sampler Battery Volt. (V):	—
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	—
Actual Pump Vol (ml):	—	Actual Pump Vol (ml):	—
Pump Vol Before Adj. (ml):	—	Pump Vol Before Adj. (ml):	—
Pump Vol After Adj. (ml):	—	Pump Vol After Adj. (ml):	—
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):	—	Pacing (cf):	—
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

changed mulch

valve opened 1.25 turns

5-11-17 → opened to 2.25 turns

Post-Storm Visit

Date: 5-11-17	Time: 16:51	Field Staff: M Muller	Weather: rainy 58°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	5-11-17 16:51	Date/Time End:	5-11-17 16:50
# of Samples:	52	# of Samples:	51
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	—
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	—
Est. Sample Vol (L):	10	Est. Sample Vol (L):	12
Visual Condition:	dark grey	Visual Condition:	light grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

closed valve
need to replace IN tubing

Grab Sample Visit

Date: 5-11-17	Time: 11:45	Field Staff: M Muller	Weather: rainy 58°
Station	Parameter	Time collected	Bottle Type
WB	NWTPH-Dx	11:45	HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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

PH IN: 7.48
OUT: 7.48



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FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 2017-05-15



HERRERA

Pre-Storm Visit

Date: 2017-05-12	Time: 15:00	Field Staff: J Bunn	Weather: PT Cloudy
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Primary Device Level?
Primary Device Level?	no flow gage at this station	Offset Before Adj. (ft):	Offset After Adj. (ft):
Offset Before Adj. (ft):	no flow gage at this station	Actual Pump Vol (ml):	Pump Vol Before Adj. (ml):
Offset After Adj. (ft):	no flow gage at this station	Pump Vol After Adj. (ml):	Intake Checked?
Actual Pump Vol (ml):	Yes No	Desiccant Dry?	no flow gage at this station
Pump Vol Before Adj. (ml):	Yes No	Sample Line Rinsed?	Yes No
Pump Vol After Adj. (ml):	Yes No	Clean Bottle?	Yes No
Intake Checked?	Yes No	Pacing (cf):	Yes No
Desiccant Dry?	Yes No	Ice Added?	Yes No
Sample Line Rinsed?	Yes No	Program Started?	Yes No
Clean Bottle?	Yes No	Tubing Connected?	Yes No
Pacing (cf):	Yes No	Flow Conditions:	Rise Peak Fall None
Ice Added?	Yes No		
Program Started?	Yes No		
Tubing Connected?	Yes No		

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 5-16-17	Time: 14:15	Field Staff: MM + KW	Weather:
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End: 10:44	# of Samples: 100	Date/Time End: 11:14	# of Samples: 50
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	no gage at this station
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	no gage at this station
Est. Sample Vol (L):	9	Est. Sample Vol (L):	12
Visual Condition:	dark grey	Visual Condition:	light grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

closed valve

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



Chain of Custody Record

[illegible]

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 2017-06-08



Pre-Storm Visit

Date: 10-7-17	Time: 17:00	Field Staff: M Mullen + K Wingrove	Weather: sunny 80°
Station Name: WB-In		Station Name: WB-Out	
Sampler Battery Volt. (V): —		Sampler Battery Volt. (V): —	
Primary Device Level? no flow gage at this station		Primary Device Level? Yes No	
Offset Before Adj. (ft): no flow gage at this station		Offset Before Adj. (ft): —	
Offset After Adj. (ft): no flow gage at this station		Offset After Adj. (ft): —	
Actual Pump Vol (ml): —		Actual Pump Vol (ml): —	
Pump Vol Before Adj. (ml): —		Pump Vol Before Adj. (ml): —	
Pump Vol After Adj. (ml): —		Pump Vol After Adj. (ml): —	
Intake Checked? Yes No		Intake Checked? Yes No	
Desiccant Dry? no flow gage at this station		Desiccant Dry? Yes No	
Sample Line Rinsed? Yes No		Sample Line Rinsed? Yes No	
Clean Bottle? Yes No		Clean Bottle? Yes No	
Pacing (cf): —		Pacing (cf): —	
Ice Added? Yes No		Ice Added? Yes No	
Program Started? Yes No		Program Started? Yes No	
Tubing Connected? Yes No		Tubing Connected? Yes No	
Flow Conditions: Rise Peak Fall None		Flow Conditions: Rise Peak Fall None	

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

valve open 2.25 turns

Post-Storm Visit

Date: 6-8-17	Time: 8:56	Field Staff: M Mullen	Weather: rainy
Station Name: WB-In		Station Name: WB-Out	
Date/Time End: 6-8-17 8:56		Date/Time End: 6-8-17 8:58	
# of Samples: 53		# of Samples: 17	
Sampled Without Error? Yes No		Sampled Without Error? Yes No	
Offset Before Adj. (ft): no gage at this station		Offset Before Adj. (ft): —	
Offset After Adj. (ft): no gage at this station		Offset After Adj. (ft): —	
Est. Sample Vol (L): 12		Est. Sample Vol (L): 11	
Visual Condition: dark grey		Visual Condition: light grey	
Bottles Replaced? Yes No		Bottles Replaced? Yes No	
Sent to Lab? Yes No		Sent to Lab? Yes No	
Duplicate Sample? Yes No		Duplicate Sample? Yes No	
Flow Conditions: Rise Peak Fall None		Flow Conditions: Rise Peak Fall None	

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

closed valve
IN: sample error message

Grab Sample Visit

Date: 6-8-17	Time: 6:20	Field Staff: M Mullen	Weather: rainy				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
WB-IN	NWTPH-Dx	6:20	HDPE Glass	2	500	yes no	Rise Peak Fall None
WB-OUT	NWTPH-Dx	6:20	HDPE Glass	2	500	yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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

pH in: 7.69
pH out: 7.54

for pH: took grab sample measured later



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20170615



Pre-Storm Visit

Date: 6-14-17	Time: 16:30	Field Staff: M Muller	Weather: sunny 100°
Station Name: WB-In		Station Name: WB-Out	
Sampler Battery Volt. (V): —		Sampler Battery Volt. (V): —	
Primary Device Level? no flow gage at this station		Primary Device Level? Yes <u>No</u>	
Offset Before Adj. (ft): no flow gage at this station		Offset Before Adj. (ft): 0-002	
Offset After Adj. (ft): no flow gage at this station		Offset After Adj. (ft): 0-000	
Actual Pump Vol (ml): 205		Actual Pump Vol (ml): 200	
Pump Vol Before Adj. (ml): 205		Pump Vol Before Adj. (ml): —	
Pump Vol After Adj. (ml): 200		Pump Vol After Adj. (ml): —	
Intake Checked? <u>Yes</u> No		Intake Checked? <u>Yes</u> No	
Desiccant Dry? no flow gage at this station		Desiccant Dry? <u>Yes</u> No	
Sample Line Rinsed? <u>Yes</u> No		Sample Line Rinsed? <u>Yes</u> No	
Clean Bottle? <u>Yes</u> No		Clean Bottle? <u>Yes</u> No	
Pacing (cf): —		Pacing (cf): —	
Ice Added? <u>Yes</u> No		Ice Added? <u>Yes</u> No	
Program Started? <u>Yes</u> No		Program Started? <u>Yes</u> No	
Tubing Connected? <u>Yes</u> No		Tubing Connected? <u>Yes</u> No	
Flow Conditions: Rise Peak Fall None		Flow Conditions: Rise Peak Fall None	

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

↑
not enough water to calibrate

Post-Storm Visit

Date: 6/16/17	Time: 10:30	Field Staff: KW + MM	Weather: Sunny 60°
Station Name: WB-In		Station Name: WB-Out	
Date/Time End: 6/16/17 2:26		Date/Time End: 6/16/17 2:08	
# of Samples: 4		# of Samples: 5	
Sampled Without Error? Yes <u>No</u>		Sampled Without Error? Yes <u>No</u>	
Offset Before Adj. (ft): no gage at this station		Offset Before Adj. (ft): —	
Offset After Adj. (ft): no gage at this station		Offset After Adj. (ft): —	
Est. Sample Vol (L): ~1		Est. Sample Vol (L): ~1	
Visual Condition: Grey		Visual Condition: Grey	
Bottles Replaced? Yes <u>No</u>		Bottles Replaced? Yes <u>No</u>	
Sent to Lab? Yes <u>No</u>		Sent to Lab? Yes <u>No</u>	
Duplicate Sample? Yes <u>No</u>		Duplicate Sample? Yes <u>No</u>	
Flow Conditions: Rise Peak Fall None		Flow Conditions: Rise Peak Fall None	

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

very small sample, clogged valve (minor)

Grab Sample Visit

Date: 6/15/17	Time: 14:30	Field Staff: Katie Wingrove	Weather: light storm				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
	NWTPH-Dx		HDPE Glass	2		yes no	Rise Peak Fall None
WB-IN	TPH	14:30	HDPE <u>Glass</u>	2		<u>yes</u> no	Rise <u>Peak</u> Fall None
WB-OUT	TPH	14:45	HDPE <u>Glass</u>	2		<u>yes</u> no	Rise <u>Peak</u> Fall None
WB-IN	pH	14:55	<u>HDPE</u> Glass			yes <u>no</u>	Rise <u>Peak</u> Fall None
WB-OUT	pH	14:50	<u>HDPE</u> Glass			yes <u>no</u>	Rise <u>Peak</u> Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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

pH in: 6.58
pH out: 6.93



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Chain of Custody Record

Project Name: Rotondo BioPod		Project Number: 15-05988-000		Client: Herrera Environmental													
Report To: Dylan Ahearn				Copy To:													
Sampled By: <i>Katie Wingrove</i>				Delivery Method: <i>hand delivery ice cooler</i>													
Laboratory: Analytical Resources Inc.		Requested Completion Date:		Total No. of Containers: <i>4</i>													
Lab Use:																	
Sample ID		Date	Time	Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)	Number of Containers	NWTPH-Dx	Analyses Requested							Lab ID No.	
WB-IN		6/15/17	14:30	G	N	SW	2	X									
WB-OUT		6/15/17	14:45	G	N	SW	2	X									
Comments/Special Instructions:																	
Relinquished by (Name/CO/ <i>Katie Wingrove / Herrera</i>)		Signature <i>Katie Wingrove</i>		Date/Time <i>6/15/17 17:00</i>		Received By (Name/CO) <i>A. Volgardsen / AR</i>		Signature <i>[Signature]</i>		Date/Time <i>6/15/17 17:00</i>							
Relinquished by (Name/CO/		Signature		Date/Time		Received By (Name/CO)		Signature		Date/Time							

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171102



HERRERA

Pre-Storm Visit			
Date: 11.01.17	Time: 12:30 9:00	Field Staff: M Mullen	Weather: cloudy 50°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	no flow gage at this station
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml):	
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

open 1.75 turns

Post-Storm Visit			
Date: 11.3.17	Time: 10:40	Field Staff: M Mullen	Weather: cloudy 40°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	11.3.17 11:02:33	Date/Time End:	11.3.17 11:02:33
# of Samples:	81	# of Samples:	81
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	no gage at this station
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	no gage at this station
Est. Sample Vol (L):	14	Est. Sample Vol (L):	18
Visual Condition:	dark grey	Visual Condition:	grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit							
Date: 11.2.17	Time: 13:30	Field Staff: M Mullen	Weather: cloudy				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
WB-IN	NWTPH-Dx	13:30	HDPE Glass	2	500	yes no	Rise Peak Fall None
WB-OUT	"	13:30	HDPE Glass	2	500	yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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



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Chain of Custody Record

Project Name: Rotondo BioPod		Project Number: 15-05988-000		Client: Herrera Environmental	
Report To: Dylan Ahearn				Copy To:	
Sampled By: <i>M Muller</i>				Delivery Method: <i>ice cooler, hand</i>	
Laboratory: Analytical Resources Inc.		Requested Completion Date:		Total No. of Containers: <i>4</i>	
Lab Use:			Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)
Sample ID			Date	Time	
WB-IN			<i>11.2.17</i>	<i>13:30</i>	G N SW
WB-OUT			<i>11.2.17</i>	<i>13:30</i>	G N SW
Comments/Special Instructions:					
Relinquished by (Name/CO/ <i>Meghan Muller/Herrera</i>)		Signature <i>[Signature]</i>		Date/Time <i>11.2.17 15:00</i>	
Received By (Name/CO)		Signature		Date/Time	
Relinquished by (Name/CO/ <i>Steranin Fisher ARZ</i>)		Signature <i>[Signature]</i>		Date/Time <i>11/2/17 1508</i>	
Received By (Name/CO)		Signature		Date/Time	

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG-SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Enviromental Solutions, LLC

Site ID: WB

Event ID: 20171104



HERRERA

Pre-Storm Visit

Date: 11.03.17	Time: 16:40	Field Staff: M Miller	Weather: cloudy 40°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml):	
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

open 1.75
(did not adjust)

Post-Storm Visit

Date: 11.6.2017	Time: 9:30	Field Staff: Katie W, Meghan M	Weather: sunny 90°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	11.05.17/18:37:52	Date/Time End:	11/5/17/18:39:54
# of Samples:	84	# of Samples:	83
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	18	Est. Sample Vol (L):	19
Visual Condition:	dark grey	Visual Condition:	light grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

WB-IN: pump change alarm

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171108



HERRERA

Pre-Storm Visit

Date: 11.6.17	Time: 10:30	Field Staff: Katie W. Meghan M	Weather: sunny 50°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):	—	Actual Pump Vol (ml):	Yes No
Pump Vol Before Adj. (ml):	—	Pump Vol Before Adj. (ml):	Yes No
Pump Vol After Adj. (ml):	—	Pump Vol After Adj. (ml):	Yes No
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):	—	Pacing (cf):	Yes No
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

no ice added (add before storm)
valve is closed (open before storm)

x added
11.8.17

Post-Storm Visit

Date: 11.10.17	Time: 9:45	Field Staff: M. Mullen	Weather: cloudy 60°
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	11.10.17 1:18	Date/Time End:	11.10.17 00:47
# of Samples:	86 93	# of Samples:	86
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	Yes No
Est. Sample Vol (L):	19	Est. Sample Vol (L):	20
Visual Condition:	dark grey	Visual Condition:	yellow grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

↑
changed tubing

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: BioPod Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID:

20171112



HERRERA

Pre-Storm Visit

Date: 11.10.17	Time: 9:45	Field Staff: M Mullen	Weather: Cloudy 60°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):	-	Sampler Battery Volt. (V):	-
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	-
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	-
Actual Pump Vol (ml):	-	Actual Pump Vol (ml):	-
Pump Vol Before Adj. (ml):	-	Pump Vol Before Adj. (ml):	-
Pump Vol After Adj. (ml):	-	Pump Vol After Adj. (ml):	-
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):	-	Pacing (cf):	-
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

↑
changed
pump
tubing

Post-Storm Visit

Date: 11.13.17	Time: 13:00	Field Staff: M Mullen	Weather: Cloudy, windy, 58°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	11.12.17 9:38	Date/Time End:	11.12.17 9:38
# of Samples:	17	# of Samples:	16
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	-
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	-
Est. Sample Vol (L):	4.4	Est. Sample Vol (L):	4
Visual Condition:	dark grey	Visual Condition:	light grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

cleaned valve, opened 1.5 (instead of 1.75)
NO PSD at lab

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

[illegible]

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171119



HERRERA

Pre-Storm Visit

Date: 11-14-17	Time: 12:45	Field Staff: M Muller	Weather: cloudy 60°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	no flow gage at this station
Primary Device Level?	no flow gage at this station	Primary Device Level?	no flow gage at this station
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	no flow gage at this station
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	no flow gage at this station
Actual Pump Vol (ml):	770	Actual Pump Vol (ml):	200
Pump Vol Before Adj. (ml):	770	Pump Vol Before Adj. (ml):	240
Pump Vol After Adj. (ml):	770	Pump Vol After Adj. (ml):	200
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

* no water

left valve open 1.5 turns

Post-Storm Visit

Date: 11-20-17	Time: 14:30	Field Staff: M Muller	Weather: cloudy 60°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	11-20-17 1:44	Date/Time End:	11-20-17 1:20
# of Samples:	8 39	# of Samples:	12 12
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	no gage at this station
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	no gage at this station
Est. Sample Vol (L):	3	Est. Sample Vol (L):	3
Visual Condition:	dark green	Visual Condition:	light grey
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

changed mulch
open 1.5 turns

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

Project Name:		Project Number:		Client:		
Rotondo BioRad Stormgarden		15-05988-000		Herrera Environmental		
Report To: Dylan Ahearn				Page: 1/1		
Sampled By: <i>M Mullen</i>				Delivery Method: <i>ice cooler hand delivered</i>		
Laboratory: Analytical Resources Inc.			Requested Completion Date:		Total No. of Containers: <i>2</i>	
Lab Use:						
Sample ID		Date	Time	Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)
WB-IN		<i>11.20.17</i>	<i>14:30</i>	C	N	SW
WB-OUT		<i>11.20.17</i>	<i>14:30</i>	C	N	SW
Comments/Special Instructions: Send 1 liter to ETS, Inc. 975 Transport Way, Suite 2, Petaluma, CA for PSD, TSS. PSD to be run for >500, 500-125, 125-62.5, 62.5-4, <4.						
Relinquished by (Name/CO/ <i>Meghan Mullen / Herrera</i>)		Signature <i>[Signature]</i>		Date/Time <i>11.20.17 15:35</i>		
Relinquished by (Name/CO/		Signature		Date/Time		
Received By (Name/CO) <i>Bryanston Fick/AAR</i>		Signature <i>[Signature]</i>		Date/Time <i>#1535 11/20</i>		
Received By (Name/CO) /		Signature		Date/Time		

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID:

2071121



HERRERA

Pre-Storm Visit

Date: 11.20.17	Time: 14:30	Field Staff: M Mullen	Weather: cloudy 65°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):		Sampler Battery Volt. (V):	
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml):	
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 11.22.17	Time: 11:00	Field Staff: B. Bland	Weather: cloudy 51°F
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	11.22.17 8:46	Date/Time End:	11.22.17 8:40
# of Samples:	24	# of Samples:	23
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	light gray	Est. Sample Vol (L):	light gray clear
Visual Condition:		Visual Condition:	
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit

Date: 11.21.17	Time: 13:00	Field Staff: M Mullen	Weather: rainy 120°				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
11.21.17	NWTPH-Dx	13:00	HDPE Glass	2	500	yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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

* yes for inlet





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Chain of Custody Record

Project Name: Rotondo BioPod		Project Number: 15-05988-000		Client: Herrera Environmental																	
Report To: Dylan Ahearn				Copy To:																	
Sampled By: <i>M Mullen</i>				Delivery Method: <i>ice cooler, hand</i>																	
Laboratory: Analytical Resources Inc.		Requested Completion Date:		Total No. of Containers: <i>10</i>																	
Lab Use:																					
Sample ID		Date	Time	Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)	Number of Containers	NWTPH-Dx	Analyses Requested										Lab ID No.		
WB-IN		<i>11.21.17</i>	<i>13:00</i>	G	N	SW			2	X											
WB-OUT		<i>11.21.17</i>	<i>13:00</i>	G	N	SW			2	X											
<i>WB-IN QA</i>		<i>11.21.17</i>	<i>13:00</i>	<i>G</i>	<i>N</i>	<i>SW</i>			<i>2</i>	<i>X</i>											
Comments/Special Instructions: <i>* duplicate from the field</i>																					
Relinquished by (Name/CO/ <i>Meghan Muller / Herrera</i>)		Signature <i>[Signature]</i>		Date/Time <i>11.21.17 14:00</i>		Received By (Name/CO) <i>Bryan Fisk / AR1</i>		Signature <i>[Signature]</i>		Date/Time <i>11/21/17 1400</i>											
Relinquished by (Name/CO/		Signature		Date/Time		Received By (Name/CO)		Signature		Date/Time											

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171130



HERRERA

Pre-Storm Visit

Date: 11.29.17	Time: 12:45	Field Staff: M Mullen	Weather: sunny 55°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Rain Gauge Level? Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Rain Gauge Unobstructed? Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml):	
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

opened valve 15 turns

Post-Storm Visit

Date: 12.1.17	Time: 11:45	Field Staff: M Mullen	Weather: cloudy 30°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	88	Date/Time End:	87
# of Samples:	88	# of Samples:	87
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	15	Est. Sample Vol (L):	15
Visual Condition:	dark grey	Visual Condition:	pale yellow
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

cleaned out valve
* need date/time of end

Grab Sample Visit

Date: 11.30.17	Time: 7:05	Field Staff: Kaitie W + Stephen M.	Weather: Rain				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (mL)	Duplicate	Flow Conditions
WB-IN	NWTPH-Dx	7:05	HDPE Glass	2	500	yes (no)	Rise Peak Fall None
WB-OUT	NWTPH-Dx	7:05	HDPE Glass	2	500	yes (no)	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)



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Chain of Custody Record

Project Name: Rotondo BioPod		Project Number: 15-05988-000		Client: Herrera Environmental																	
Report To: Dylan Ahearn				Copy To:																	
Sampled By: <i>Katie Wingrove + Meghan Mullen</i>				Delivery Method: <i>ice cooler / hand deliver</i>																	
Laboratory: Analytical Resources Inc.		Requested Completion Date:		Total No. of Containers: <i>4</i>																	
Lab Use:																					
Sample ID		Date	Time	Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)	Number of Containers	NWT PH-Dx	Analyses Requested										Lab ID No.		
WB-IN		<i>11.30.17</i>	<i>9:05</i>	G	N	SW			2	X											
WB-OUT		<i>11.30.17</i>	<i>9:05</i>	G	N	SW			2	X											
Comments/Special Instructions:																					
Relinquished by (Name/CO/ <i>Meghan Mullen / Herrera</i>)		Signature <i>[Signature]</i>		Date/Time <i>11.30.17 10:15</i>		Received By (Name/CO) <i>Amy Stephanie Fiswell</i>		Signature <i>[Signature]</i>		Date/Time <i>11/30/17</i>											
Relinquished by (Name/CO/		Signature		Date/Time		Received By (Name/CO)		Signature		Date/Time											

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171202



HERRERA

Pre-Storm Visit

Date: 12-1-17	Time: 11:45	Field Staff: M. Muller	Weather: cloudy 50°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):	-	Sampler Battery Volt. (V):	-
Primary Device Level?	no flow gage at this station	Primary Device Level?	(Yes) No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	-
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	-
Actual Pump Vol (ml):	-	Actual Pump Vol (ml):	-
Pump Vol Before Adj. (ml):	-	Pump Vol Before Adj. (ml):	-
Pump Vol After Adj. (ml):	-	Pump Vol After Adj. (ml):	-
Intake Checked?	(Yes) No	Intake Checked?	(Yes) No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	(Yes) No
Sample Line Rinsed?	(Yes) No	Sample Line Rinsed?	(Yes) No
Clean Bottle?	(Yes) No	Clean Bottle?	(Yes) No
Pacing (cf):	-	Pacing (cf):	-
Ice Added?	(Yes) No	Ice Added?	(Yes) No
Program Started?	(Yes) No	Program Started?	(Yes) No
Tubing Connected?	(Yes) No	Tubing Connected?	(Yes) No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 12-04-17	Time: 11:45	Field Staff: M. Muller	Weather: cloudy 45°
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	12-03-17 1:14	Date/Time End:	12-03-17 1:14
# of Samples:	39	# of Samples:	39
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	-
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	-
Est. Sample Vol (L):	8	Est. Sample Vol (L):	10
Visual Condition:	dark green	Visual Condition:	pale yellow
Bottles Replaced?	Yes (No)	Bottles Replaced?	Yes (No)
Sent to Lab?	(Yes) No	Sent to Lab?	(Yes) No
Duplicate Sample?	Yes (No)	Duplicate Sample?	Yes (No)
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

closed valve

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20171228



HERRERA

Pre-Storm Visit

Date: 12/29/17	Time: 1:30	Field Staff: A. Svendsen, D. Ahern	Weather: cloudy
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V): 13.2	Sampler Battery Volt. (V): 13.2	Rain Gauge Level?	Yes No
Primary Device Level? no flow gage at this station	Primary Device Level? <input checked="" type="radio"/> Yes No	Rain Gauge Unobstructed?	Yes No
Offset Before Adj. (ft): no flow gage at this station	Offset Before Adj. (ft): calibrated	Bypass weir as well	
Offset After Adj. (ft): no flow gage at this station	Offset After Adj. (ft):		
Actual Pump Vol (ml):	Actual Pump Vol (ml):		
Pump Vol Before Adj. (ml):	Pump Vol Before Adj. (ml):		
Pump Vol After Adj. (ml):	Pump Vol After Adj. (ml):		
Intake Checked? <input checked="" type="radio"/> Yes No	Intake Checked? <input checked="" type="radio"/> Yes No		
Desiccant Dry? no flow gage at this station	Desiccant Dry? <input checked="" type="radio"/> Yes No		
Sample Line Rinsed? <input checked="" type="radio"/> Yes No	Sample Line Rinsed? <input checked="" type="radio"/> Yes No		
Clean Bottle? <input checked="" type="radio"/> Yes No	Clean Bottle? <input checked="" type="radio"/> Yes No		
Pacing (cf): NA	Pacing (cf): NA		
Ice Added? <input checked="" type="radio"/> Yes No	Ice Added? <input checked="" type="radio"/> Yes No		
Program Started? <input checked="" type="radio"/> Yes No	Program Started? <input checked="" type="radio"/> Yes No		
Tubing Connected? <input checked="" type="radio"/> Yes No	Tubing Connected? <input checked="" type="radio"/> Yes No		
Flow Conditions: Rise Peak Fall <input checked="" type="radio"/> None	Flow Conditions: Rise Peak Fall <input checked="" type="radio"/> None		

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 12/29/17	Time: 10:15	Field Staff: D. Ahern	Weather: Rain
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End: 12/29/17 10:25	Date/Time End:	Rain Gauge Level?	Yes No
# of Samples: 13	# of Samples: 12	Rain Gauge Unobstructed?	Yes No
Sampled Without Error? <input checked="" type="radio"/> Yes No	Sampled Without Error? <input checked="" type="radio"/> Yes No		
Offset Before Adj. (ft): no gage at this station	Offset Before Adj. (ft):		
Offset After Adj. (ft): no gage at this station	Offset After Adj. (ft):		
Est. Sample Vol (L): 2.5	Est. Sample Vol (L): 2.5		
Visual Condition: dark grey	Visual Condition: light grey		
Bottles Replaced? Yes <input checked="" type="radio"/> No	Bottles Replaced? <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		
Sent to Lab? <input checked="" type="radio"/> Yes No	Sent to Lab? <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		
Duplicate Sample? Yes <input checked="" type="radio"/> No	Duplicate Sample? Yes <input checked="" type="radio"/> No		
Flow Conditions: Rise Peak Fall None	Flow Conditions: Rise Peak Fall None		

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

High flow discrete sample collected at 35 gpm (design flow rate)

Grab Sample Visit

Date: 12/29/17	Time: 10:25	Field Staff: D. Ahern	Weather: Rain				
Station	Parameter	Time collected	Bottle Type	# of Bottles	Bottle Volume (ml)	Duplicated	Flow Conditions
WB-IN	NWTPH-Dx	12/29/17 10:25	HDPE Glass	2	500 ml	yes <input checked="" type="radio"/> no	Rise Peak Fall None
WB-OUT	NWTPH-Dx	12/29/17 10:30	HDPE Glass	2	500 ml	yes <input checked="" type="radio"/> no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)



WINTHROP, WA | GUANGZHOU, CHINA

Chain of Custody Record

Project Name: Rotondo StormGarden		Project Number: 15-05988-000		Client: Herrera Environmental												
Report To: Dylan Ahearn				Copy To:												
Sampled By: <i>Dylan Ahearn</i>				Delivery Method:												
Laboratory: Analytical Resources Inc.		Requested Completion Date: <i>1/12/18</i>		Total No. of Containers: <i>4</i>												
Lab Use:				Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)	Number of Containers	NWTPH-Dx	Analyses Requested							Lab ID No.
Sample ID		Date	Time													
WB-IN		<i>12/29/17</i>	<i>10:25</i>	G	N	SW			2	X						
WB-OUT		<i>12/29/17</i>	<i>10:30</i>	G	N	SW			2	X						
Comments/Special Instructions:																
Relinquished by (Name/CO/ <i>Dylan Ahearn</i>)		Signature <i>[Signature]</i>		Date/Time <i>12/29/17 12:55</i>		Received By (Name/CO) <i>Stephanie Fisher</i>		Signature <i>[Signature]</i>		Date/Time <i>AR1 12/29/17 1</i>						
Relinquished by (Name/CO/		Signature		Date/Time		Received By (Name/CO)		Signature		Date/Time						

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20190104



HERRERA

Pre-Storm Visit

Date: 1/4/18	Time: 1400	Field Staff: A. SUNDSEN	Weather: OVERCAST
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):		Actual Pump Vol (ml):	Yes No
Pump Vol Before Adj. (ml):		Pump Vol Before Adj. (ml):	Yes No
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	Yes No
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	Yes No
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 1/5/18	Time: 1200	Field Staff: A. SUNDSEN	Weather: SHOWERS, ~49°F
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	1/5/18 0540	Date/Time End:	1/5/18 0725
# of Samples:	100	# of Samples:	99
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	no gage at this station
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	no gage at this station
Est. Sample Vol (L):	20	Est. Sample Vol (L):	20
Visual Condition:	VERY TURBID	Visual Condition:	MOD. TURBID
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
NWTPH-Dx			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20180108



HERRERA

Pre-Storm Visit

Date: 1/8/2018	Time: 1130	Field Staff: A. SVENDSEN	Weather: PARTLY CLOUDY, 46°F
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):		Sampler Battery Volt. (V):	
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj (ml):		Pump Vol Before Adj (ml):	
Pump Vol After Adj. (ml):		Pump Vol After Adj. (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf)		Pacing (cf)	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

VALVE SET @ 1.25 TURNS, CLEANED DRAIN BRIDGE TO PREVENT BASEFLOW FROM FLOWING THROUGH FILTRATION DEVICE BETWEEN STORMS

Post-Storm Visit

Date: 1/9/18	Time: 1030	Field Staff: A. SVENDSEN	Weather: SHOWERS, 46°F
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	1/9/18 0427	Date/Time End:	1/9/18 0543
# of Samples:	35	# of Samples:	27
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	10	Est. Sample Vol (L):	7
Visual Condition:	SLIGHTLY TURBID	Visual Condition:	SLIGHTLY TURBID
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station:	Sampled:	Time collected:	Flow Conditions:
NWTPH-Dx		HDPE Glass	yes no Rise Peak Fall None
		HDPE Glass	yes no Rise Peak Fall None
		HDPE Glass	yes no Rise Peak Fall None
		HDPE Glass	yes no Rise Peak Fall None
		HDPE Glass	yes no Rise Peak Fall None
		HDPE Glass	yes no Rise Peak Fall None

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



Chain of Custody Record

[illegible]

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID:

20181017



HERRERA

Pre-Storm Visit			
Date: 11/7/18	Time: 8:30	Field Staff: B. Blaud	Weather: cloudy, 50°F
Station Name: WB-In		Station Name: WB-Out	
Sampler Battery Volt (V):	—	Sampler Battery Volt (V):	—
Primary Device Level?	no flow gage at this station	Primary Device Level?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	—
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	—
Actual Pump Vol (ml):	—	Actual Pump Vol (ml):	—
Pump Vol Before Adj. (ml):	—	Pump Vol Before Adj. (ml):	—
Pump Vol After Adj. (ml):	—	Pump Vol After Adj. (ml):	—
Intake Checked?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Intake Checked?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Sample Line Rinsed?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Line Rinsed?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Clean Bottle?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Clean Bottle?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Pacing (cf):	—	Pacing (cf):	—
Ice Added?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Ice Added?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Program Started?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Program Started?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Tubing Connected?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Tubing Connected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit			
Date: 11/8/18	Time: 1300	Field Staff: A. SUNDSON	Weather: LIGHT RAIN, ~45°F
Station Name: WB-In		Station Name: WB-Out	
Date/Time End:	11/8/18 1047	Date/Time End:	11/8/18 1049
# of Samples:	92	# of Samples:	87
Sampled Without Error?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sampled Without Error?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	—
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	—
Est. Sample Vol (L):	20	Est. Sample Vol (L):	19
Visual Condition:	TURBID, DARK BROWN	Visual Condition:	MCD. TURBID, BROWN
Bottles Replaced?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Bottles Replaced?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Sent to Lab?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sent to Lab?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Duplicate Sample?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Duplicate Sample?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit							
Date: 11/7/18	Time: 1615	Field Staff: A. SUNDSON	Weather: HEAVY RAIN				
Station	Parameter	Time collected	Sample type	Bottle	Volume	Flow	Flow Condition
WB-OUT	NWTPH-Dx	1625	HDPE Glass	2	500	yes no	Rise Peak Fall None
WB-IN	NNTPH-Dx	1635	HDPE Glass	2	500	yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None
			HDPE Glass			yes no	Rise Peak Fall None

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



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HERRERA

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Chain of Custody Record

[illegible]

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20180123



HERRERA

Pre-Storm Visit			
Date: 1/22/18	Time: 1000	Field Staff: A. SVENDSEN	Weather: PARTLY CLOUDY, 45°F
Station Name: WB-In		Station Name: WB-Out	
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	no flow gage at this station
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	no flow gage at this station
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	no flow gage at this station
Actual Pump Vol (ml):	no flow gage at this station	Actual Pump Vol (ml):	no flow gage at this station
Pump Vol Before Adj (ml):	no flow gage at this station	Pump Vol Before Adj (ml):	no flow gage at this station
Pump Vol After Adj (ml):	no flow gage at this station	Pump Vol After Adj (ml):	no flow gage at this station
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):	no flow gage at this station	Pacing (cf):	no flow gage at this station
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

- CHANGED OUT PUMP HEAD TURNING @ IN + OUT ISCO SAMPLERS
 - ROUGHENED MULCH LAYER
 - CHECKED DRAWBRIDGE / INTAKE + CLEANED, SET VALVE @ 1.25 TURNS

Post-Storm Visit			
Date: 1/24/18	Time: 1315	Field Staff: A. SVENDSEN	Weather:
Station Name: WB-In		Station Name: WB-Out	
Date/Time End:	1/24/18 0141	Date/Time End:	1/24/18 0142
# of Samples:	1	# of Samples:	1
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	no gage at this station
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	no gage at this station
Est. Sample Vol (L):	1	Est. Sample Vol (L):	1
Visual Condition:	TURBID, DARK BROWN	Visual Condition:	SLIGHTLY TURBID, LIGHT BROWN
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit							
Date:	Time:	Field Staff:	Weather:				
Station:	NWTPH-Dx	Time collected:	Bottle Type:	Bottle:	yes no	Rise Peak Fall None	
			HDPE Glass	2	yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	

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

NO GRAB SAMPLES COLLECTED



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Chain of Custody Record

Project Name: Rotondo StormGarden			Project Number: 15-05988-000		Client: Herrera Environmental			Analyses Requested													
Report To: Dylan Ahearn					Page: 1/1			Total Suspended Solids - SM 2540D	Particle size Distribution - ASTM D422	Total phosphorus - SM 4500P-F	Orthophosphorus - SM 4500P-F	Hardness as CaCO3-SM 2340B	Copper, dissolved - EPA 200.8	Copper, total - EPA 200.8	Zinc, dissolved - EPA 200.8	Zinc, total - EPA 200.8					
Sampled By: A. SVENDSEN					Delivery Method: IN TOTE W/ICE																
Laboratory: Analytical Resources Inc.				Requested Completion Date:			Total No. of Containers: 2														
Lab Use:				Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)															
Sample ID		Date	Time																		
WB-IN		1/24/18	0141	C	N	SW	X	X	X	X	X	X	X	X	X	X					
WB-OUT		1/24/18	0142	C	N	SW	X	X	X	X	X	X	X	X	X	X					
Comments/Special Instructions: Send 1 liter to ETS, Inc. 975 Transport Way, Suite 2, Petaluma, CA for PSD, TSS. PSD to be run for >500, 500-125, 125-62.5, 62.5-4, <4.																					
Relinquished by (Name/CO/) Alex SVENDSEN/HER				Signature 		Date/Time 1/24/18 1430				Received By (Name/CO/) Brandon Fisk/ARI				Signature 		Date/Time 1/24/18 1430					
Relinquished by (Name/CO/)				Signature		Date/Time				Received By (Name/CO/)				Signature		Date/Time					

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID:



HERRERA

Pre-Storm Visit			
Date: 1/26/18	Time: 1000	Field Staff: A. SVENDSEN	Weather: OVERCAST, 42°F
Station Name: WB-In		Station Name: WB-Out	
Sampler Battery Volt (V):		Sampler Battery Volt (V):	
Primary Device Level?	no flow gauge at this station	Primary Device Level?	Yes No
Offset Before Adj (ft):	no flow gauge at this station	Offset Before Adj (ft):	
Offset After Adj (ft):	no flow gauge at this station	Offset After Adj (ft):	
Actual Pump Vol (ml):		Actual Pump Vol (ml):	
Pump Vol Before Adj (ml):		Pump Vol Before Adj (ml):	
Pump Vol After Adj (ml):		Pump Vol After Adj (ml):	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gauge at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):		Pacing (cf):	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None
Notes/Visual Conditions (if no to any questions above, explain why and remedial actions taken)			
<p>- CHECKED DRAW-BRIDGE (INTAKE); APPETAS CLEAN W/NO BASE FLOW ENTERING SYSTEM</p> <p>- SET VALVE @ 1.25 TURNS</p>			

Post-Storm Visit			
Date: 1-27-18	Time: 1245	Field Staff: B Bland	Weather: Rain, 49°F
Station Name: WB-In		Station Name: WB-Out	
Date/Time End:	1-27-18 / 7:45	Date/Time End:	1-27-18 / 7:45
# of Samples:	20	# of Samples:	19
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj (ft):	no gauge at this station	Offset Before Adj (ft):	
Offset After Adj (ft):	no gauge at this station	Offset After Adj (ft):	
Est. Sample Vol (L):	5	Est. Sample Vol (L):	5
Visual Condition:	light yellow clear	Visual Condition:	gray, clear
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None
Notes/Visual Conditions (if no to any questions above, explain why and remedial actions taken)			

Grab Sample Log							
Date:	Time:	Field Staff:	Weather:				
	NWTPH-Dx		HDPE Glass	2	yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	
			HDPE Glass		yes no	Rise Peak Fall None	

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



Chain of Custody Record

Project Name:		Project Number:		Client:		Analyses Requested												
Rotondo StormGarden		15-05988-000		Herrera Environmental		Total Suspended Solids - SM 2540D	Particle size Distribution - ASTM D422	Total phosphorus - SM 4500P-F	Orthophosphorus - SM 4500P-F	Hardness as CaCO ₃ -SM 2340B	Copper, dissolved - EPA 200.8	Copper, total - EPA 200.8	Zinc, dissolved - EPA 200.8	Zinc, total - EPA 200.8				
Report To: Dylan Ahearn		Page: 1/1																
Sampled By: <i>B. Bland</i>		Delivery Method:																
Laboratory: Analytical Resources Inc.		Requested Completion Date:		Total No. of Containers:														
Lab Use:				Sample Type (see codes)	Preservative? (Y/N)													Matrix (see codes)
Sample ID		Date	Time															
WB-IN		1-27-18	9:45	C	N	SW	X	X	X	X	X	X	X	X				
WB-OUT		1-27-18	7:45	C	N	SW	X	X	X	X	X	X	X	X				
Comments/Special Instructions: Send 1 liter to ETS, Inc. 975 Transport Way, Suite 2, Petaluma, CA for PSD, TSS. PSD to be run for >500, 500-125, 125-62.5, 62.5-4, <4.																		
Relinquished by (Name/CO/ <i>Brianne Bland</i>)		Signature <i>[Signature]</i>		Date/Time <i>1-29-18 / ISSS</i>		Received By (Name/CO) <i>Stephanie Fismar</i>		Signature <i>[Signature]</i>		Date/Time <i>1/29/18 ISSS</i>								
Relinquished by (Name/CO/)		Signature		Date/Time		Received By (Name/CO)		Signature		Date/Time								

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)



Pre-Storm Visit			
Date: 1/31/18	Time: 1100	Field Staff: A. SVENDSEN	Weather: OVERCAST, 46°F
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	NA	Sampler Battery Volt. (V):	NA
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):	—	Actual Pump Vol (ml):	—
Pump Vol Before Adj (ml):	—	Pump Vol Before Adj (ml):	—
Pump Vol After Adj (ml):	—	Pump Vol After Adj (ml):	—
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf):	—	Pacing (cf):	—
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

— MOVED INTAKE INTO HATCH/PIPE INLET

Post-Storm Visit			
Date: 2/2/18	Time: 1200	Field Staff: A. SVENDSEN	Weather: PARTLY CLOUDY 54°F
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	2/1/18 2218	Date/Time End:	2/1/18 2218
# of Samples:	27	# of Samples:	36
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj (ft):	no gage at this station	Offset Before Adj (ft):	—
Offset After Adj (ft):	no gage at this station	Offset After Adj (ft):	—
Est. Sample Vol (L):	7	Est. Sample Vol (L):	7
Visual Condition:	TURBID, DARK BROWN	Visual Condition:	SLIGHTLY TURBID
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Samples Used			
Date:	Time:	Field Staff:	Weather:
	NWTPH-Dx	HDPE Glass	2
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	

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

NO GRAB SAMPLES COLLECTED



2200 Sixth Avenue | Suite 1100
Seattle, Washington | 98121
p 206 441 9080 | f 206 441 9108

Chain of Custody Record

Project Name:			Project Number:		Client:													
Rotondo StormGarden			15-05988-000		Herrera Environmental													
Report To: Dylan Ahearn			Page: 1/1															
Sampled By: <i>A. SVENDSEN</i>			Delivery Method: <i>IN TOTE W/ICE</i>															
Laboratory: Analytical Resources Inc.			Requested Completion Date:		Total No. of Containers: <i>2</i>													
Lab Use:			Sample Type (see codes)	Preservative? (Y/N)	Matrix (see codes)	Total Suspended Solids - SM 2540D	Particle size Distribution - ASTM D422	Total phosphorus - SM 4500P-F	Orthophosphorus - SM 4500P-F	Hardness as CaCO ₃ -SM 2340B	Copper, dissolved - EPA 200.8	Copper, total - EPA 200.8	Zinc, dissolved - EPA 200.8	Zinc, total - EPA 200.8				
Sample ID																		Date
WB-IN			<i>2/1/18</i>	<i>2218</i>	C	N	SW	X	X	X	X	X	X	X	X			
WB-OUT			<i>2/1/18</i>	<i>2218</i>	C	N	SW	X	X	X	X	X	X	X	X			
Comments/Special Instructions:																		
Send 1 liter to ETS, Inc. 975 Transport Way, Suite 2, Petaluma, CA for PSD, TSS. PSD to be run for >500, 500-125, 125-62.5, 62.5-4, <4.																		
Relinquished by (Name/CO/ <i>Alex Svendsen/HCC</i>)			Signature <i>[Signature]</i>			Date/Time <i>2/2/18 1440</i>			Received By (Name/CO) <i>Sephanne Fisher</i>			Signature <i>[Signature]</i>			Date/Time <i>2/2/18 1440</i>			
Relinquished by (Name/CO/)			Signature			Date/Time			Received By (Name/CO)			Signature			Date/Time			

Sample Type: G=Grab C=Composite

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20180203



HERRERA

Pre-Storm Visit

Date: 2/2/18	Time: 1300	Field Staff: A. SVENDSEN	Weather: PARTLY CLOUDY, 54°F
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Sampler Battery Volt. (V)	no flow gage at this station	Sampler Battery Volt. (V)	Rain Gauge Level? Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Rain Gauge Unobstructed? Yes No
Offset Before Adj. (ft)	no flow gage at this station	Offset Before Adj. (ft)	
Offset After Adj. (ft)	no flow gage at this station	Offset After Adj. (ft)	
Actual Pump Vol (ml)	2	Actual Pump Vol (ml)	
Pump Vol Before Adj (ml)		Pump Vol Before Adj (ml)	
Pump Vol After Adj (ml)		Pump Vol After Adj (ml)	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf)		Pacing (cf)	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 2/5/18	Time: 1030	Field Staff: A. SVENDSEN	Weather: OVERCAST, 50°F
Station Name: WB-In		Station Name: WB-Out	Station Name: Wall-RG
Date/Time End:	2/3/18 2301	Date/Time End:	2/3/18 2301
# of Samples:	7	# of Samples:	16
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	4	Est. Sample Vol (L):	4
Visual Condition:	TURBID	Visual Condition:	SLIGHTLY TURBID
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Soil Sample Visited

Date:	Time:	Field Staff:	Weather:
NWTPH-Dx		HDPE Glass	2
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	

yes no Rise Peak Fall None

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



Chain of Custody Record

Sample Type: G=Grab C=Composite **Matrix Codes:** A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20180213



HERRERA

Pre-Storm Visit

Date: 2/13/18	Time: 1315	Field Staff: A. SVENDSEN	Weather: MOSTLY SUNNY
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt (V):		Sampler Battery Volt (V):	
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft)	no flow gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft)	no flow gage at this station	Offset After Adj. (ft):	
Actual Pump Vol (ml):		Actual Pump Vol (ml)	
Pump Vol Before Adj (ml)		Pump Vol Before Adj (ml)	
Pump Vol After Adj (ml)		Pump Vol After Adj (ml)	
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (cf)		Pacing (cf)	
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Post-Storm Visit

Date: 2/14/18	Time: 1045	Field Staff: A. SVENDSEN	Weather: OVERCAST W/STARS, 42°F
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	2/14/18 0206	Date/Time End:	2/14/18 0206
# of Samples:	23	# of Samples:	22
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	
Est. Sample Vol (L):	5	Est. Sample Vol (L):	5
Visual Condition:	SLIGHTLY TURBID	Visual Condition:	SLIGHTLY TURBID
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Soil Sample Log

Date:	Time:	Field Staff:	Weather:
NWTPH-Dx		HDPE Glass	2
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	
		HDPE Glass	

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



Chain of Custody Record

[illegible]

Matrix Codes: A=Air GW=Groundwater SE=Sediment SO=Soil SW=Surface Water W=Water (blanks) M=Material O=Other (specify)

FIELD LOG SHEET

Project Name: StormGarden Bio-Filtration System

Project #: 15-05988-000

Site Location: WSDOT TEST FACILITY

Client: Rotondo Environmental Solutions, LLC

Site ID: WB

Event ID: 20181122



HERRERA

Pre-Storm Visit

Date: 11/22/18	Time: 13:00	Field Staff: D. Ahearn	Weather: cloudy
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Sampler Battery Volt. (V):	no flow gage at this station	Sampler Battery Volt. (V):	Yes No
Primary Device Level?	no flow gage at this station	Primary Device Level?	Yes No
Offset Before Adj. (ft):	no flow gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no flow gage at this station	Offset After Adj. (ft):	Yes No
Actual Pump Vol (ml):	210	Actual Pump Vol (ml):	210
Pump Vol Before Adj. (ml):	230	Pump Vol Before Adj. (ml):	260
Pump Vol After Adj. (ml):	210	Pump Vol After Adj. (ml):	210
Intake Checked?	Yes No	Intake Checked?	Yes No
Desiccant Dry?	no flow gage at this station	Desiccant Dry?	Yes No
Sample Line Rinsed?	Yes No	Sample Line Rinsed?	Yes No
Clean Bottle?	Yes No	Clean Bottle?	Yes No
Pacing (ml/gal)	180	Pacing (cf):	180
Ice Added?	Yes No	Ice Added?	Yes No
Program Started?	Yes No	Program Started?	Yes No
Tubing Connected?	Yes No	Tubing Connected?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

small amount of "baseflow" occurring on arrival
6" Valve set at 3 turns

Post-Storm Visit

Date: 11/23/18	Time: 12:00	Field Staff: D. Ahearn	Weather: clear
Station Name: WB-In		Station Name: WB-Out	
Station Name: Wall-RG			
Date/Time End:	11/23/18 21:25	Date/Time End:	11/23/18 21:49
# of Samples:	59	# of Samples:	36
Sampled Without Error?	Yes No	Sampled Without Error?	Yes No
Offset Before Adj. (ft):	no gage at this station	Offset Before Adj. (ft):	Yes No
Offset After Adj. (ft):	no gage at this station	Offset After Adj. (ft):	Yes No
Est. Sample Vol (L):	11.6	Est. Sample Vol (L):	5.6
Visual Condition:	cloudy	Visual Condition:	clear
Bottles Replaced?	Yes No	Bottles Replaced?	Yes No
Sent to Lab?	Yes No	Sent to Lab?	Yes No
Duplicate Sample?	Yes No	Duplicate Sample?	Yes No
Flow Conditions:	Rise Peak Fall None	Flow Conditions:	Rise Peak Fall None

Notes/Visual Conditions: (if 'no' to any questions above, explain why and remedial actions taken)

Grab Sample Visit

Date:	Time:	Field Staff:	Weather:
Station	Parameter	Time collected	Bottle Type
	NWTPH-Dx		HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass
			HDPE Glass

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



Chain of Custody Record

 **HERRERA**
Page 1 of 1