

# APPENDIX C FIELD DATA RECORDS (FDRS)



# APPENDIX C-1 SUSPENDED MATERIAL COLLECTION FDRS



SUSPENDED SOLIDS AND PONAR GRAB LO	SUSF	PENDED	SOLIDS	AND	PONAR	GRAB	LOG
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VIEElei			CONTRACTOR OF THE OWNER	Contractor of the local division of the loca	lan panan di Secol di
Owner: USDC, District of Maine	Project N	0.: 3616166052	Tidal Target Depth (+/- M		Logger: +M3 KC
Date: "1/24/117	WO: 4A-0	60	Tidal Target Time: 1		Crew: KC, MB; MM
Fime: i O O 1	Tablet #:	4	Tidal Phase: Rising	) Falling	Vessel: Pamola 2
ocation ID (GPS Point Name):	A01 1	-	Coordinates: Lat 44:1	0756907	Long - 68, 834225
ample Name (Tidal Traget SS)	-		Sample Name (Ponar):	-	
Veather: Citudy, 68Wind	ls: —	Waters: -	Traffic: -	-	Water Temp: <u>-</u> °F
1=meter Below MWD Water	Parameters	Midpoi	int Water Parameters	1-meter Above	e Mudline Water Parameters
рН: 🚤		pH:			
EC (mS/cm): 🛥		EC (mS/cm):	-	EC (mS/cm)	
DS (ppm/ppt): 😁		TDS (ppm/ppt):		TDS (ppm/ppt)	
Salinity (ppt): 👝		Salinity (ppt):		Salinity (ppt)	
Temp. (ºF):		Temp. (°F): Comments:		Temp. (°F) Comments:	
Depth		Pupth .	= 201' MWD	DepTh	
Tidal Target SS Intak	e Depth Para	meters	Measured	Water Depth (ft.)	: 23,
oprox. Pump Depth: 2.1	١		Co	rrection to MLLW	A lought to the second s
orrection to MLLW:			Mudline (Corrected		
udy Depth (-MLLW):		and hitse the second	sector and sector in the line we have been a sector of the	ly Depth (-MLLW)	The second se
Beginning Water Parameters			End Water Para	imeters	EC (mS/cm):
ump Started: —	TDS (ppm/		Pump Stopped:		TDS (ppt):
ow Rate:	Salinity (pp		Flow Rate:		Salinity (ppt): -
1:	Temp. (°F)	:	pH:		Temp. (°F):
unable to ver unrent creation	ich tar	jet depth bend pais	due to reglate	nnertick	lure form
Number of containers and		Ī		ation Photo Nu	
estimated amount:		_			
2-Gallon Buckets with Sample	e: Ponar	Tidal Target SS	1		
Ponar Recovered	Quantitie	es are in P	ercent measured	cm by cm	(approximately)
eployment # Recovery			Description		Sample ID
PG	nar v	bluou	not close		-
eneral Ponar Comments:					Ponar Size Collected In
lowifying Info	item 70	on Reco	rded by (F.Las	+;Date):	Standard or Petite
0 0			ch	ecked: 1	MT 12/21/17

Penobscot River M	ercury Study	/ - Phase I	ll Engin	eering Fv	aluation	
amec	DED SOLIDS				andanon	
Owner:USDC, District of MaineProject NDate: $7   28   17$ WO: 4A-0Time:1015Tablet #:Location ID (GPS Point Name): $A   0 ]$	lo.: 3616166052 Ti 60 Ti 7 Ti 1 DI C	idal Target Der	ne: 9.15 Rising at 44. 6	$\frac{1}{23}$ Falling $0619571$	Logger: KC Crew: famale 2 C Vessel: Paniel a 2 Long - 68.834156	Р, КС, МВ,М 07
Sample Name (Tidal Traget SS):		100	N. 1993 M.		Water Temp: <u>///</u> °F	
1 meter Below MWD Water Parameters	CONTRACTOR OF THE OWNER.	Water Paramete	and the second second second	the second data in the second s	Mudline Water Parameters	
pH: -	pH:			pH:		1
EC (mS/cm):	EC (mS/cm):	and the second se		EC (mS/cm):		1
TDS (ppm/ppt):	TDS (ppm/ppt):			TDS (ppm/ppt):		1
Salinity (ppt):	Salinity (ppt):	and the second sec		Salinity (ppt):		1
Temp. (°F):	Temp. (°F):			Temp. (°F):		1
Comments:	Comments:			Comments:		1
Tidal Target SS Intake Depth Para	ameters	N	leasured W	ater Depth (ft.):	130	1
Approx. Pump Depth:		Tida	the second se	ction to MLLW:		1
Correction to MLLW:	-	and the second se	-	epth) @ MLLW:		1
Study Depth (-MLLW):			the second s	Depth (-MLLW):	and the second statement of th	1
Beginning Water Parameters EC (mS/cr	n): —	End Wa	ater Paramo	And the second se	EC (mS/cm):	1
Pump Started: — TDS (ppm	the second se				TDS (ppt):	
Flow Rate:	a film of the second	Pump Stopped: TDS (ppt): Flow Rate: Salinity (ppt):				1
pH: - Temp. (°F)		pH: Temp. (°F):				
Plankton Net Comments: HOSE 2 UP SOME WCH General Tidal Target SS Comments: HOS Mudline), HOSE 2 15 Fu to be too close to the		rer and rom th It was	hock e mu adjus	ed up se ted bef	condicioser to Hose 1 was det one next depoly	the irmed
Number of containers and estimated amount:	2-25al =	MG-D	Locati	on Photo Nu	mbers n-0478	
2-Gallon Buckets with Sample: Ponar	Tidal Target SS					5
Ponar Recovered Quantitie	es are in Per	cent meas	sured c	m by cm (	approximately)	
i 201. Bistom 1 un	Des ilt, coli, Dei Silt, sume fine	cription w plas, T saud, TR+	R have	, TR sawd	Sample ID Wit Wett 104R 5/55	-
						-
						-
					Denes 8' 0'' 1'	-
General Ponar Comments: I Clanifying Information Reco	115 Sam. rdea By (F.	Last Date)	r.K. Eas	ked by	Ponar Size Collected In Standard or Petite 7/2017 : LMT 12/21/1	- -

Owner: USDC, District of Maine		Tidal Target Depth (+/-	
Date: 7 (29/11 Time:	WO: 4A-060 Tablet #:	Tidal Target Time:	
1 Sec. 10	: AOI 1A-falling	and the second	
		Sample Name (Ponar):	
Sample Name (Tidal Traget S		e compressioner and the second se	5 5 5 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	nds: 0-5 kutj Waters: 0 -		1 meter Above Mudline Water Paramet
1 meter Below MWD Wate pH:		int Water Parameters	pH: -
EC (mS/cm):	EC (mS/cm)		EC (mS/cm):
TDS (ppm/ppt):	TDS (ppm/ppt)		TDS (ppm/ppt):
Salinity (ppt): -	Salinity (ppt)		Salinity (ppt):
Temp. (ºF): 🔔	Temp. (ºF)	and a state of a state	Temp. (°F): 🥌
Comments:	Comments: -	-	Comments:
Tidal Tarrat 00 hat	ke Denth Denemators	1	ad Water Depth (A ): 07 al
Approx. Pump Depth: 18" a	ake Depth Parameters		ed Water Depth (ft.): 27.8 <sup>1</sup>
Correction to MLLW:	JUNC AMOUNTING L		ed Depth) @ MLLW:
Study Depth (-MLLW):			udy Depth (-MLLW):
Beginning Water Paramet	ers EC (mS/cm): 🥌	End Water Pa	rameters EC (mS/cm):
		Pump Stopped:	TDS (ppt):
Pump Started: 🛩	TDS (ppm/ppt):	Fullip Stopped.	
Flow Rate:	Salinity (ppt): — Temp. (ºF): —	Flow Rate: pH: Underwater Camera Ob	Salinity (ppt): Temp. (°F):
Flow Rate: pH: Plankton Net Comments:	Salinity (ppt): Temp. (ºF):	Flow Rate: pH: Underwater Camera Ob	Salinity (ppt): Temp. (°F): servations:
Flow Rate: pH: Plankton Net Comments:	Salinity (ppt): Temp. (ºF):	Flow Rate: pH: Underwater Camera Ob	Salinity (ppt): Temp. (°F):
Flow Rate: pH: Plankton Net Comments:	Salinity (ppt): - Temp. (oF): -	Flow Rate: pH: Underwater Camera Ob dodn't Us (diad M	Salinity (ppt): Temp. (°F): servations:
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Com PUMP type N/ th No There M Number of containers an estimated amount:	Salinity (ppt): - Temp. (oF): - imments: T2 Mart left TR afenial ebsented d - 2-2 ga	Flow Rate: pH: Underwater Camera Ob  detnitus(diad M	Salinity (ppt): - Temp. (oF): - servations:- 1.(ufh grow) in HAU SILVE;
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W/ H NO THE W/ H Number of containers an estimated amount: 2-Gallon Buckets with Sam	Salinity (ppt): - Temp. (oF): - imments: There of the second s	Flow Rate: pH: Underwater Camera Ob detrifus (diad M Lo	Salinity (ppt): - Temp. (oF): - servations:- nuth grow) in HAU SILVE; pocation Photo Numbers
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W/ H NO THE W/ H Number of containers an estimated amount: 2-Gallon Buckets with Sam	Salinity (ppt): - Temp. (oF): - imments: There of the second s	Flow Rate: pH: Underwater Camera Ob detrifus (diad M Lo	Salinity (ppt): - Temp. (oF): - servations:- 1.(ufh grow) in HAU SILVE;
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W/ H NO THE W/ H Number of containers an estimated amount: 2-Gallon Buckets with Sam	Salinity (ppt): - Temp. (oF): - Temp. (oF): - Temp. (oF): - Temp. (oF): - Tidel Target SS Ponar Tidel Target SS Ponar Tidel Target SS Ponar Tidel Target SS	Flow Rate: pH: Underwater Camera Ob detrifus (diad M Lo	Salinity (ppt): - Temp. (oF): - servations:- nuth grow) in HAU SILVE; pocation Photo Numbers
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovery	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Temp. (oF): - Temp. (oF): - Temp. (oF): - Tidel Target SS Ponar Tidel Target SS Ponar Tidel Target SS Ponar Tidel Target SS	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovery	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Corr PUMP type W type Number of containers an estimated amount: 2-Gallon Buckets with Sam Ponar Recovered Deployment # Recovered	Salinity (ppt): - Temp. (oF): - Te	Flow Rate: pH: Underwater Camera Ob dotn'tus(diad M Lo Percent measured Description	Salinity (ppt): - Temp. (oF): - servations: - nuth grow in HAU SIME, cation Photo Numbers d cm by cm (approximately)

oster		0040100
wheeler SUSPEN		-MLLW): - Logger: KC 
Ocation ID (GPS Point Name): ADI1		4.6095762 Long -62.8365
Sample Name (Tidal Traget SS): AOT ib.	173817_SS_N Sample Name (Ponar)	
Veather: SVN 75 Winds: 5 -100	Waters: 0-5 Knot Traffic:	O − I Water Temp: <u>65</u> °F
1 meter Below MWD Water Parameters	Midpoint Water Parameters	1 meter Above Mudline Water Parameters
pH:	pH:	pH:
EC (mS/cm):	EC (mS/cm):	EC (mS/cm):
DS (ppm/ppt):	TDS (ppm/ppt):	TDS (ppm/ppt):
Salinity (ppt): Temp. (ºF):	Salinity (ppt): Temp. (ºF):	Temp. (°F):
comments:	Comments: ~	Comments:
Tidal Target SS Intake Depth Pa	rameters Measur	red Water Depth (ft.): 15.5
pprox. Pump Depth:		Correction to MLLW: + 4.3
orrection to MLLW:		ed Depth) @ MLLW: -10.2
tudy Depth (-MLLW):		tudy Depth (-MLLW):
Beginning Water Parameters EC (mS/	cm): End Water Pa	arameters EC (mS/cm):
ump Started: TDS (ppr	m/ppt): Pump Stopped:	TDS (ppt):
	ppt): Flow Rate:	Salinity (ppt):
H: Temp. (%)	F): pH: Underwater Camera Ot	Temp. (°F):
2-buckets taken from	usted hose #1 to a AOI 1A and 2 buck	a slightly higher position atstrom ABI1B,
Number of containers and estimated amount:		ocation Photo Numbers
Number of containers and		ocation Photo Numbers
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar	2 - 2 gul IMG1 _ 04 70 Tidal Target SS	ocation Photo Numbers
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	2 - 2 gul IMG1 _ 04 70 Tidal Target SS	ocation Photo Numbers もゴがGi_0474
Number of containers and estimated amount:         2-Gallon Buckets with Sample:         Ponar         Ponar Recovered Quantit         Deployment #	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit eployment # Recovery	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 IMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount:         2-Gallon Buckets with Sample:         Ponar         Ponar Recovered Quantit         Deployment #	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount:	2 - 2 gul Tidal Target SS Tidal Target SS ies are in Percent measure Description	ocation Photo Numbers 너너 TMGI_0474 d cm by cm (approximately)
Number of containers and estimated amount:	2-2gu Tidal Target SS ies are in Percent measure Description x to ACT 1A	Decation Photo Numbers

Penobscot River N	lercury Stu	ıdy - Phase III Engi	neering Ev	aluation	
amec foster wheeler SUSPEN		DS AND PONAR GF	RAB LOG		
Owner: USDC, District of MaineProject IDate: $7/29/17$ WO: 4A-Time: $+6:+75^{-6}17'$ Tablet #Location ID (GPS Point Name): $A01167$	060 : 4	Tidal Target Depth (+/- ML Tidal Target Time: — Tidal Phase: Rising Coordinates: Lat 1-4, Sample Name (Ponar): —	Falling 40 125 25	Logger: I <c Crew: MM, MB, KC Vessel: Panula Long - 68 · 8363155 2</c 	)
Sample Name (Tidal Traget SS):	11Maters:	1950 A) 19 (1950)		Water Temp: <u>2</u> °F	
Weather: GM 79° Winds: 0-5 KM 1 meter Below MWD Water Parameters		int Water Parameters	the second part of the second s	Mudline Water Parameters	
pH: -	pH			-	
EC (mS/cm):	EC (mS/cm)		EC (mS/cm)	-	
TDS (ppm/ppt):	TDS (ppm/ppt):		TDS (ppm/ppt)	-	
Salinity (ppt):	Salinity (ppt)		Salinity (ppt)		
Temp. (°F):	Temp. (°F):		Temp. (°F)		
Comments:	Comments: 🛩		Comments:		
Tidal Target SS Intake Depth Par	ameters	Measured	Water Depth (ft.)	22.5	
Approx. Pump Depth: 18" above mudline			rection to MLLW		
Correction to MLLW: +10,4		Mudline (Corrected I			
Study Depth (-MLLW): -10.5			the state of the s	=14.0x1-12.0	
Beginning Water Parameters EC (mS/c		End Water Parar	neters	EC (mS/cm):	
	n/ppt):	Pump Stopped: -		TDS (ppt):	
Flow Rate: — Salinity (p pH: — Temp. (PF		Flow Rate:		Salinity (ppt):	
Plankton Net Comments: Sieve + Flo Total time = 5 min He # OF 5 gallon buckets Sieves # 40 -> #60 Were 0 mitted Nothin General Tidal Target SS Comments: 1705 Total Time = 5 min # OF G1 allons = 7.5 g Some SUS Dended Sol	r vetein er vetein er vetein er vetein ertes 1.	the not retain the the the day from bothe 5 G.P.M	ned mat	s observed via D135	= 701
Number of containers and	Δ.		tion Photo Nu	mbers	
estimated amount:	1-2gal				
2-Gallon Buckets with Sample: Ponar	Tidal Target SS				
Ponar Recovered Quantit	ies are in P	Percent measured of	cm by cm (	approximately)	
Deployment # Recovery		Description		Sample ID	
1 20% 2cm. co	itse grav	relps cattered sa	nd, sem	mussels, 10YR43	
General Ponar Comments: - Clarifying Information P	ecorded	by (F. Last; Da	ite): K. (	Ponar-Size Collected In (Standard) or (Petite) (Ser 12/17/17 Ked by: LMT 12/21	17

oster vheeler SUS	SPENDED SOL	IDS AND PONAR	GRAB LUG	
		2 Tidal Target Depth (+/		Logger: KC
Date: 7/28/17 \	WO: 4A-060	Tidal Target Time: -	-	
Fime: 16:00	Tablet #: 4	Tidal Phase: Rising	(Falling)	Crew: MM, MB, KC Vessel: famila 2
ocation ID (GPS Point Name):	I NIM L	Coordinates: Lat 4	4 500ma 92	
Sample Name (Tidal Traget SS): AC	Than 1 07-1047 5	Sample Name (Ponar)	1.58 \$105	
Noethori Curran Curr Minder 5	L-MVILL - ROIT+J	2-N15	and first	P Water Town Lotte
Veather:Svn」フラッデWinds:む				
1 meter Below MWD Water Parar		oint Water Parameters		e Mudline Water Parameters
pH: ~		H:		:
EC (mS/cm):	EC (mS/cm	A second and a second	EC (mS/cm)	
rDS (ppm/ppt):	TDS (ppm/pp		TDS (ppm/ppt)	
Salinity (ppt):	Salinity (pp		Salinity (ppt)	
Temp. (°F): —	Temp. (•F		Temp. (°F)	
Comments:	Comments:	~	Comments: -	
3				
Tidal Target SS Intake De			ed Water Depth (ft.)	
	e mud IIW		Correction to MLLW	
Correction to MLLW: +11.3			ed Depth) @ MLLW	
Study Depth (-MLLW): -2.5		- Containing the state of the s	udy Depth (-MLLW)	
Beginning Water Parameters	C (mS/cm):	End Water Pa	arameters	EC (mS/cm):
the second s		and the second statement of th		
and the second	DS (ppm/ppt):	Pump Stopped:		TDS (ppt):
low Rate: 🥌 S	Salinity (ppt): —	Flow Rate:		Salinity (ppt): 🦟
low Rate: - S H: - T tankton.Net Comments: Flow	Salinity (ppt): $-$ Temp. (oF): $-$ Nate experive (ots = 14t = $+$ = 200 $\rightarrow N$	Flow Rate: pH: - Underwater Camera Ot Ment, Total to GAP M= 5 pe 0 observed	suspender	Salinity (ppt): - Temp. (oF):
Tow Rate: - S SH: - T Plankton Not Comments: T Began Sieve and Flow He of 5 gallon buch Sieves #40, #60, Beneral Tidal Target SS Comments:	ialinity (ppt): - iemp. (oF): - Nate experi- Lets - 14t + #200 -> N	Flow Rate: pH: - Underwater Camera Ot Ment, Total th SGR M= 500 Cobserved O thing ve mped out (igui	tained	Salinity (ppt): Temp. (oF): tps (Hose 2 18 <sup>11</sup> above te 1 sollds insieve 0 pears to be on
Tow Rate: - S Sold Sieve and Flow H: - T Plankton Not Comments: Began Sieve and Flow H: of 5 gallon buch Sieves #40, #60, Beneral Tidal Target SS Comments: Mudline, Pump FUM	ialinity (ppt): - iemp. (oF): - Nate experi- Lets - 14t + #200 -> N	Flow Rate: pH: - Underwater Camera Ot Ment, Total th SGR M= 560 O observed O thing ve mped out ligue revent pump	tained tained d that ay damage	Salinity (ppt): Temp. (oF): tes (Hose 2 is" above te Solicis insieve opeans to be on TSS samples tal
Tow Rate: - S H: - T Mankton Not Comments: T Began Sieve and Flow H: 0F 5 gallon buch Sieves #40, #60, Beneral Tidal Target SS Comments:	ialinity (ppt): - iemp. (oF): - Nate experi- Lets - 14t + #200 -> N	Flow Rate: pH: - Underwater Camera Ot Ment, Total th GAP M= 5 po O observed D thing ve mped out ligue revent pump	tained	Salinity (ppt): Temp. (oF): tes (Hose 2 is" above te Solicis insieve opeans to be on TSS samples tal
Iow Rate: - S H: - T Iankton Net Comments: Flow Began S: eve and Flow S: eves Hug, Hoo, buck S: eves Hug, Hoo, hughine, pump tum Number of containers and estimated amount:	ialinity (ppt): - iemp. (oF): - Nate experily (ets = 14t. + #200 -> N - itose 1, pur Ned of to pri 	Flow Rate: pH: - Underwater Camera Ob Ment, Total th DG Char 500 Co thing Ne mped out light revent pump Lo IMCL-0469	tained tained d that ay damage	Salinity (ppt): Temp. (oF): tes (Hose 2 is" above te Solicis insieve opeans to be on TSS samples tal
Iow Rate: - S H: - T Iankton Net Comments: Flow Began Sieve and Flow H: - T Began Sieve and Flow H: - T Began Sieve and Flow H: - T Sieves H:	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Ment, Total th D GAP M= 5 pp D Observed D Thing ve mped out liquit revent pump Lo IMB-0469	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): these (Hese 2 is "above the contraction of the contract
Iow Rate:       S         H:       T         Hankton-Net-Comments:       Flow         Began Sieve and Flow       Seven and Flow         Sieves Sieve and Flow       Seven buck         Sieves Hullor, Holl, Holl	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Plankton Net Comments: Flow Began Sieve and Flow H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - T H:	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Ment, Total th D GAP M= 5 pp D Observed D Thing ve mped out liquit revent pump Lo IMB-0469	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): these (Hese 2 is "above the contraction of the contract
Iow Rate:       S         H:       T         Hankton Net Comments:       T         Began Sieve and Flow       For Sieve and Flow         Sieves # 40, # 60,       Sieves # 40, # 60,         Beneral Tidal Target SS Comments:       Multime, Pump + VM         Number of containers and estimated amount:       2-Gallon Buckets with Sample:         Ponar Recovered Qu	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Plankton Net Comments: Flow Began Sieve and Flow H: J 5 gallon buck Sieves H 40, H 60, Peneral Tidal Target SS Comments: Multine, Pump F VM Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Recovered Qu	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Hankton Net Comments: Flow Began Sieve and Flow H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - S H: - T How H: - T H: - T How H: - T How H: - T How H: - S H:	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate:       S         H:       T         Hankton-Net-Comments:       Flow         Began Sieve and Flow       Seven and Flow         Sieves Sieve and Flow       Seven buck         Sieves Hullor, Holl, Holl	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate:       S         H:       T         Iankton-Net-Comments:       Flow         Began Sieve and Flow       Seven and Flow         Sieves Sieve and Flow       Seven buck         Sieves Hullon buck       Seven buck         Sieves Hullon Flow       Seven buck         Number of containers and estimated amount:       2-Gallon Buckets with Sample:         Ponar Recovered Que	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate:       S         H:       T         Iankton-Net-Comments:       Flow         Began Sieve and Flow       Seven and Flow         Sieves Sieve and Flow       Seven buck         Sieves Hullon buck       Seven buck         Sieves Hullon Flow       Seven buck         Number of containers and estimated amount:       2-Gallon Buckets with Sample:         Ponar Recovered Que	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Plankton Net Comments: Flow Began Sieve and Flow H: J 5 gallon buck Sieves H 40, H 60, Peneral Tidal Target SS Comments: Multine, Pump F VM Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Recovered Qu	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Hankton Net Comments: Flow Began Sieve and Flow H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - S H: - T How H: - T H: - T How H: - T How H: - T How H: - S H:	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Plankton Net Comments: Flow Began Sieve and Flow H: J 5 gallon buck Sieves H 40, H 60, Peneral Tidal Target SS Comments: Multine, Pump F VM Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Recovered Qu	ialinity (ppt): emp. (oF): Nate expendent (ets = 14t = + # 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate: - S H: - T Hankton Net Comments: Flow Began Sieve and Flow H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - T H: - T Began Sieve and Flow H: - S H: - T How H: - T H: - T How H: - T How H: - T How H: - S H:	ialinity (ppt): iemp. (oF): Nate expendent (ets = 14t = t = 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate:       S         H:       T         Hankton Net Comments:       T         Began Sieve and Flow       For Sieve and Flow         Sieves # 40, # 60,       Sieves # 40, # 60,         Beneral Tidal Target SS Comments:       Multime, Pump + VM         Number of containers and estimated amount:       2-Gallon Buckets with Sample:         Ponar Recovered Qu	ialinity (ppt): iemp. (oF): Nate expendent (ets = 14t = t = 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)
Iow Rate:       S         DH:       T         Hankton Not Comments:       T         Began Sieve and Flow       Flow         Steves Sieve and Flow       Flow         Steves Steve and Flow       Flow         Number of containers and estimated amount:       Flow         2-Gallon Buckets with Sample:       Ponar Recovered Qu	ialinity (ppt): iemp. (oF): Nate expendent (ets = 14t = t = 200 = N No Hose L, pur Ned of to pr Ponar Tidal Target St	Flow Rate: pH: - Underwater Camera Ot Merry, Total to S GR M= 500 O thing ve mped out light revent pump Lo IMCL-0469 Percent measure	diens/mini suspender danege damage	Salinity (ppt): Temp. (oF): tps (Hose 2 15" above te Solids insieve opeans to be on TSS samples to imbers (approximately)

amec Penobscot Rive	r Mercury Stu	dy - Phase	e III Engir	neering Ev	aluation
Foster	ENDED SOLID	S AND PC	NAR GR	AB LOG	
	ect No.: 3616166052	Tidal Target [	Depth (+/- MLL	w):	Logger: KC
Date: AUF OR-1 WO	: 4A-060	Tidal Target	Time:		Crew: MB, KC, MM
Time: 13:50 Tab	let #: 4	Tidal Phase:		Falling	Vessel: panida 2
Location ID (GPS Point Name): AUI-	OR-1	Coordinates:	Lat 99.51	6038076	Long-68:1446072
Sample Name (Tidal Traget SS):		Sample Nam	e (Ponar):	tQI-C	R-A
Weather: Sun, 75 Winds: 0-	5 with Waters: 2-				Water Temp: 61 °F
1 meter Below MWD Water Parameter		int Water Paran		Contract of the second probability of the second	Mudline Water Parameters
pH: -			leters		
EC (mS/cm): -	EC (mS/cm):			EC (mS/cm):	
TDS (ppm/ppt):	TDS (ppm/ppt):			TDS (ppm/ppt):	
Salinity (ppt):	Salinity (ppt):	and the second se		Salinity (ppt):	
Temp. (°F):	Temp. (°F):	-		Temp. (•F):	
Somments: JTSS; AOI-1-01	Comments: 1	1.55-N	08-R1	Comments:-	
+ Total Ha	Frant	1	-K2		-
Tidal Target SS Intake Depth			and the second se	Vater Depth (ft.):	
Approx. Pump Depth: 10" alare hotto	M			ection to MLLW:	
Correction to MLLW: +7,0 Study Depth (-MLLW): -2,2		Mudline		epth) @ MLLW: Depth (-MLLW):	
	mS/cm):	End	Water Param	the product of the local division of the loc	EC (mS/cm):
	(ppm/ppt):	Pump Stopped			TDS (ppt): -
	ity (ppt):	Flow Rate: -	the second se		Salinity (ppt):
	p. (°F):	рН:			Temp. (°F):
Plankton Net Comments: Observed mulch possible Mising Hobe Stopped Weight. General Tidal Target SS Comments: Hithly Variable amo					
Highly variable amo timed inter	vals de fi	eldbool	$<_i  \ell$	0 -	)
Number of containers and estimated amount:	gul 3-TSS		Locat	ion Photo Nu	mbers NGI-0499
	nar Tidal Target SS	TWC	-0442	10 21	101-0944
Ponar Recovered Quar	a second s	And the second sec	asured c	m by cm (	
Deployment # Recovery	14-70 61.50	Description		low the de	Sample ID
[ 90% nonter	ind Trades 42	ha inve	5/	were see	me fiberais
	the just is	10 10,10	-/ [		
			the second s		
General Ponar Comments:		000	D	No. ()	Ponar Size Collected In
NOUN CICO	2 IN YON	ALL CI	al der	orvee	Standard or Petite
General Ponar Comments: WUK OW Clawifying Informa	the Don	1 Andres	to per	100.17	K LACOUNTRA
rundid 3 Tutolma	nime crea	united b	ylr.La	st. vate	buil marching +
			U (	neekea	y. un 1 44/21/1

Penobscot River M	ercury Stu	ıdy - Phase III Engi	neering Ev	aluation
amec foster SUSPEND		DS AND PONAR G	RAB LOG	
Owner: USDC, District of Maine Project N Date: フレユーノレコ WO: 4A-00	0.: 3616166052 50 7 V-1(AOT-D)	Tidal Target Depth (+/- ML Tidal Target Time: Tidal Phase: Rising Coordinates: Lat 44.5 Sample Name (Ponar):	LW):	-1
1 meter Below MWD Water Parameters		int Water Parameters	Contraction of the local data	Mudline Water Parameters
рН:	рH			~
EC (mS/cm):	EC (mS/cm)	:	EC (mS/cm):	-
TDS (ppm/ppt): -	TDS (ppm/ppt)		TDS (ppm/ppt):	-
Salinity (ppt): ~	Salinity (ppt)		Salinity (ppt):	-
Temp. (°F): -	Temp. (°F)		Temp. (°F):	-
Comments:	Comments: -	These states and states	Comments:	
Tidal Target SS Intake Depth Para	meters	Measured	Water Depth (ft.)	6-01 MB 7.01
Approx. Pump Depth: 18" above bettom (Ho.		A second se	rection to MLLW:	
Correction to MLLW: +Ø, 7	n El	Mudline (Corrected	Depth) @ MLLW:	-63
Study Depth (-MLLW): -4,5		Study	Depth (-MLLW):	-6.0 -6.5
Beginning Water Parameters EC (mS/cr	n):	End Water Para	the structure have been all the structure has been and the structure of the	EC (mS/cm):
Pump Started: TDS (ppm)	And the second sec	Pump Stopped:		TDS (ppt):
Flow Rate:		Flow Rate:		Salinity (ppt):
pH: Temp. (°F)		рН: —		Temp. (°F):
HOSE #2: 5GPM TR With retained in 40 st. wwyh to bag General Tidal Target SS Comments: 24,5 HOSE #1: GPM = 5		GIRM		
TR WGH retained UII #91	1160 1720	v steves, vor eva		
Number of containers and estimated amount:     1       2-Gallon Buckets with Sample:     Ponar	Tidal Target SS	Loca IMG _0482	tion Photo Nu to エMG	nbers 20485
Ponar Recovered Quantitie	es are in F	Percent measured	cm by cm (	approximately)
Deployment # Recovery		Description		Sample ID
1 10%. Sitty day,	Scattered TR. V	gravel TR da	undy ceh, n	on-plas, ioyr4/
				~
			-	
General Ponar Comments: ~ Clanifying Infor matter T	Recorde	d by (F. Last, ' checked	Darte); V by: LMT	Ponar Size Collected In Standard or Petite (ASEY 12/7/14

	Demek					a ala se ala a Es	-1	
amec foster	Penop				dy - Phase III E		aluation	
wheeler		a provide the second second	Contract of the Owner of the Owner of the	the second s	S AND PONAR		and the second	1
Owner: USDC,		ine	WO: 4A-06		Tidal Target Depth ( Tidal Target Time:	6	Logger: KC Crew: KC, MB, MM	
Date: 7/2 Time: 120				4	Tidal Phase: Risi		Vessel: Parnola 2	
Location ID			2		- (		Long - 68. 82565	41.7
8		1	AUI	and a second sec			Long - 60. 00365	162
Weather: U					Sample Name (Pona		vu Water Temp: <u>57</u> °F	
Company and an and a second	low MWD V	100 Mar	And the second second	And the second state of th	nt Water Parameters		Mudline Water Parameters	
pH:			ineters	pH:	1 - 344			1
EC (mS/cm):		99		EC (mS/cm):		EC (mS/cm):		1
TDS (ppm/ppt)				TDS (ppm/ppt):		TDS (ppm/ppt):	(0.00	1
Salinity (ppt):		00		Salinity (ppt):	13 m	Salinity (ppt):	- 1 - P	1
Temp. (°F):	1	d, c		Temp. (°F):	18.600	Temp. (°F):	1800	1
Comments:	- 16	۱ <sup>1</sup>		Comments:	m (	Comments:	· · ·	
defilh	= 1(	) .		dyph =	3'	dyth=	6	
Tidal 1	Target SS	ntake D	epth Para	meters	Meas	ured Water Depth (ft.):	10.1'	1
Approx. Pump		8' - V			Tidal	Correction to MLLW:	and all shared and an and a state of the sta	1
Correction to N	ILLW: 🔸	13.3			Mudline (Corre	cted Depth) @ MLLW:		
Study Depth (-I	The second s					Study Depth (-MLLW):		
Beginning			EC (mS/cn		End Water	Parameters	EC (mS/cm):	-
Pump Started:			TDS (ppm/		Pump Stopped:		TDS (ppt):	
Flow Rate:			Salinity (pp	and the second second second	Flow Rate: 🕶		Salinity (ppt):	
pH: Plankton Net (	Commonte:		Temp. (°F)		Underwater Camera (	been/ations:	Temp. (°F):	-
General Tidal	Target SS C Vdline	comments	"3-) gnal	gallon	buckets at	6;8; and	10°07 unsieve	\$
	f containers ited amount		1	3-Igallor	buckets	Location Photo Nu	mbers	
2-Gallon Bud	ckets with S	ample:	Ponar	Tidal Target SS				
Ponar	Recove	ered Q	uantitie	es are in P	ercent measur	ed cm by cm (	approximately)	
Deployment #	Recovery			C	Description		Sample ID	
1	30%	101	(R 4):	3 SIH	" Non plustic	, hon-coh., -	TR particle W	CH;
		Silt	TR	clay, a	oh, low p	lasticity	IDYR 5/4 TR	
2	207.	1 Qn	1 J 6	silt, non	-plas, hon-c	oh ,10 YR 5/	î.	Cidina
		beler	U I WAT	à sit, t	ine rands, n	on-picos, nou	-coh, 10 YR \$%	
3	νØ Ί				- why non-p			1
					non-wh,n			-
General Ponar	r Comments						Ponar Size Collected In	
						1	Standard or Petite	
clarify!	ing Inf	ormat	for P	ecked b	by (F. Last 1: EMT 12/21	· Date): 12.	Casey; 12/6/17	

	Mercury Stu	ıdy - Phase III Engi	neering Ev	aluation	
foster SUSPEI	NDED SOLI	DS AND PONAR GI	RAB LOG		
Owner: USDC, District of Maine Project		Tidal Target Depth (+/- ML		Logger: KC	
Date: 7/24/17 WO: 4/ Time: 1355 Tablet	4-060 #: 4	Tidal Target Time: 10 Tidal Phase: Rising	I SO Falling	Crew: KC, MB, MM Vessel: Pamalaz	
Location ID (GPS Point Name): ROI				Long - 68.836527	1
Sample Name (Tidal Traget SS): AOT -7			5.000	<b>J</b>	
Weather: clay dy 67 "Winds: mild	Waters: Cor	10 meruhat color Traffic: N	ICINE	Water Temp: SIL2°F	
1 meter Below MWD Water Parameters	And the second se	int Water Parameters	PROPERTY AND ADDRESS OF THE OWNER.	e Mudline Water Parameters	
pH: 7.90	рH	and the second se	pН		
EC (mS/cm): 19,64	EC (mS/cm)		EC (mS/cm)		
TDS (ppm/ppt):         (0.00           Salinity (ppt):         (0.00	TDS (ppm/ppt) Salinity (ppt)		TDS (ppm/ppt) Salinity (ppt)	the second se	
Temp. (°F): 17.9"	Temp. (°F)		Temp. (°F)	: 18.100	
Comments:	Comments:	depth = 4'	Comments:	47th = 3'	
depth= 5'		septin - 1	04	upin - S	
Tidal Target SS Intake Depth Pa	arameters	station and an extension of the second se	Water Depth (ft.)		
Approx. Pump Depth: A				+12.0	
Correction to MLLW: +12,0 Study Depth (-MLLW): +8,0		Mudline (Corrected Study	Depth) @ MLLVV ( Depth (-MLLW)		
	/cm):	End Water Para	CONTRACTOR OF THE OWNER.	EC (mS/cm):	
	om/ppt):	Pump Stopped:		TDS (ppt):	
	(ppt): •F):	Flow Rate:		Salinity (ppt):	
Plankton Net Comments:	<u>.</u>	Underwater Camera Obse	rvations:		
General Tidal Target SS Comments: 6ー、 いい	l gallon l sieved g	ouckets of sinab samples	S at 3;	4% and 5° of	
Number of containers and	Y	Loca	tion Photo Nu	Imbers	
2-Gallon Buckets with Sample: Pona	Tidal Target SS				
Ponar Recovered Quanti	ties are in P	Percent measured	cm by cm (	(approximately)	
Deployment # Recovery		Description		Sample ID	
1 30%. 1 mm sil	+ IDYR 4	12, non-coh, n	on-play, T	Plastic, TR Kibenz	chips
TR partice	, wooden	Ŷ;	0	the providence	
lylow In	nm = sil-	t, 10YR 73,0	ot, non-	prastic 112 Bread	i vocis
				2	
			and the second second		
General Ponar Comments: ****				Ponar-Size Collected In	
		a strategy and		Standard or Petite	
Clamitying Information	fron Reco	nded by (F. Last 12/=1/17	(Date): K	- (asey; 12/6/17)	1

Penobscot River I	Mercury Stu	udy - Phase III Engi	neering Ev	aluation	
amec v foster SUSPEN	IDED SOLI	DS AND PONAR G	RAB LOG		
Owner: USDC, District of Maine Project	No.: 3616166052	Tidal Target Depth (+/- ML	LW): 🛩	Logger: KC	1
Date: 7/25/17 WO: 4A	-060	Tidal Target Time:	155	Crew: KC, MD, MM, KA	-
Time: 1155 Tablet		Tidal Phase: Rising	Falling	Vessel: Pamola 2	
Location ID (GPS Point Name): ADI 1				Long ~ 68.77 088	00
Sample Name (Tidal Traget SS): AOT. 11	.072517.55	Sample Name (Ponar):	10I 11		
Weather: (Lovdy 68' Winds: D-5 Kno	I Waters: Mos	Hycalm Traffic: N	ione	Water Temp: <u>59</u> °F	
1 meter Below MWD Water Parameters	Midpo	bint Water Parameters	1 meter Above	Mudline Water Parameters	5
рН: —	рН	1: 🕶			
EC (mS/cm):	EC (mS/cm)	and a first of the second s	EC (mS/cm)		-
TDS (ppm/ppt): -	TDS (ppm/ppt)		TDS (ppm/ppt)		-
Salinity (ppt):	Salinity (ppt) Temp. (°F)		Salinity (ppt) Temp. (°F)		1
Comments: -	Comments:		Comments:		1
					_
Tidal Target SS Intake Depth Pa	rameters	Measured	Water Depth (ft.)		]
Approx. Pump Depth: 9.5		and the second se	rection to MLLW		
Correction to MLLW: +10.8		Mudline (Corrected I	and the second state of th		
Study Depth (-MLLW): + 1, 3 Beginning Water Parameters EC (mS	(cm):	End Water Parar	/ Depth (-MLLW)	EC (mS/cm):	-
	m/ppt):	Pump Stopped: -	netera	TDS (ppt): *	-
Flow Rate: Salinity	and the second statement of the se	Flow Rate: -		Salinity (ppt):	1
pH: - Temp. (	PF): 💳	рН: 🛥		Temp. (°F):	1
Plankton Net Comments:		Underwater Camera Obser	rvations: 🦟		1
General Tidal Target SS Comments: Nり の好い		2.01			-
IMG_6274 Shows 5-29 Number of containers and			tion Photo Nu	and the second	4
estimated amount:	a V	IM CIS 6274 -629	10 based	on the time	-
2-Gallon Buckets with Sample: Ponar		and date to			
Ponar Recovered Quanti	ies are in F	Percent measured (	cm by cm (	approximately)	7
Deployment # Recovery		Description		Sample ID	1
1 0/ No rec	overy				]
2 5% Silfith	clay,	toh non-pices, Tr	, TR sau	iduit, NKH	104R 5/
2 11 014 12	(len 100	le mariolun To	2 6 1 4	VOSI	1
3 11 SIH, TR	<u>( ( )</u>	a juin pices (10	c Scontont	WIT, WIR13	-
				-	-
				Dener Circ Collected	_
General Ponar Comments: 🛩				Ponar Size Collected In Standard or Petite	-
(las) P. T. P.	11 0		1 6		
Clarifying Informe	ution te	corded by F.L	ast; Date	J.K. Casey; 12/6	117
check	eaby: LMT	12/21/17			

foster wheeler	SUSPENDED SOLIE	CONTRACTOR DATA AND A CONTRACTOR OF THE OWNER		
Owner: USDC, District of Maine		Tidal Target Depth (+/- MLL		
Date: 7/25/17	WO: 4A-060 Tablet #: 4	Tidal Target Time: 125 Tidal Phase: Rising	Falling	Crew: KC,MB,MN Vessel: Panulu 2
Time: 1355				
Location ID (GPS Point Name):	AOI 14.	Coordinates: Lat 44,5	16723967	Long - 68. 1443 1
Sample Name (Tidal Traget SS	):	Sample Name (Ponar): 🛩		
Weather: Parnally Cloudy Win	ds: 0-5 Knots Waters: Mut	ly when Traffic: 0	-1 boils	Water Temp: <u>59</u> °F
1 meter Below MWD Water	Parameters Midpol	nt Water Parameters	1 meter Above M	Mudline Water Paramet
рН:	pH:	-	pH:	71000
EC (mS/cm): -	EC (mS/cm):		EC (mS/cm):	
TDS (ppm/ppt): -	TDS (ppm/ppt):		TDS (ppm/ppt):	
Salinity (ppt): -	Salinity (ppt):		Salinity (ppt):	
Temp. (°F):	Temp. (°F):		Temp. (°F):	PUMP)
Comments:	WD = 5.5' 2) DTB	3.5' MWD=55	Comments:	
053=1.5	DP3	2' PUMP)	DFB=	· · · · · · · · · · · · · · · · · · ·
recorders, education and a contract of the core			went the Oster Schutz for the State	
	e Depth Parameters	Tidal Corr	Vater Depth (ft.):	+11.5
Approx. Pump Depth: $4^{\circ}$ . Correction to MLLW: $+ 11$ .	5.	Mudline (Corrected D		
Study Depth (-MLLW): + +		Contraction of the local section of the section of	Depth (-MLLW):	( ( ) ( ( ) )
Beginning Water Paramete		End Water Paran	the second s	EC (mS/cm):
Pump Started: -	TDS (ppm/ppt): -	Pump Stopped: '		TDS (ppt): -
Flow Rate: -	Salinity (ppt): -	Flow Rate: 🛩		Salinity (ppt): 💳
		Construction of the second	5	Salinity (ppt): — Temp. (°F): —
Flow Rate: - pH: -	Salinity (ppt):	Flow Rate:	5	
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Comm Number of containers and	Salinity (ppt): Temp. (oF):	Flow Rate: pH: Underwater Camera Obser	5	Temp. (°F):
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Comr Number of containers and estimated amount:	Salinity (ppt):	Flow Rate: pH: Underwater Camera Obser	vations:	Temp. (°F):
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Comm Number of containers and estimated amount: 2-Gallon Buckets with Samp	Salinity (ppt): Temp. (°F): nents: le: Ponar Tidal Target SS	Flow Rate: pH: Underwater Camera Obser	vations:	Temp. (°F):
Flow Rate:	Salinity (ppt): Temp. (oF): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser Loca ercent measured c	vations:	Temp. (°F):
Flow Rate: pH: Plankton Net Comments: General Tidal Target SS Comm Number of containers and estimated amount: 2-Gallon Buckets with Samp	Salinity (ppt): Temp. (oF): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser	vations:	Temp. (°F):
Flow Rate:	Salinity (ppt): Temp. (oF): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser Loca ercent measured c	vations:	Temp. (°F):
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Flow Rate:	Salinity (ppt): Temp. (oF): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser Loca ercent measured c	vations:	Temp. (°F):
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Flow Rate:	Salinity (ppt): Temp. (oF): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser Loca ercent measured c	vations:	Temp. (°F):
Flow Rate:	Salinity (ppt): Temp. (°F): nents: le: Ponar Tidal Target SS d Quantities are in P	Flow Rate: pH: Underwater Camera Obser Loca ercent measured c	vations:	Temp. (°F):

wheeler	A DESCRIPTION OF THE OWNER OF THE	the second protocol distances of the	Tidal Target Depth (+/- M	and the second	Logger: KC
Owner: USDC, District of Maine Date: 7(25)(7	WO: 4A-060	3616166052	Tidal Target Time: 151		Crew: KC,MB,MM, KA,
Time: 1600	Tablet #: 4		Tidal Phase: Rising	Falling	Vessel: Pamola
					the second second second second
Location ID (GPS Point Name):	AUI 20			5466483	Long - 68.7514 cm
Sample Name (Tidal Traget S			Sample Name (Ponar):		
Weather: Sunny, 72° Wir	ids: 0-3 kmit Wa	aters: O	· 5 Knots C Port Traffic!	Jone	Water Temp: 57 °F
1 meter Below MWD Water		And and a state of the state of	nt Water Parameters	ALCONTRACTOR AND A DESCRIPTION OF A DESC	Mudline Water Paramete
pH: 🖛		pH:	- Jani	рН	and a
EC (mS/cm): 🗂	E	EC (mS/cm):		EC (mS/cm)	
TDS (ppm/ppt): 🛩	TDS	S (ppm/ppt):	-	TDS (ppm/ppt)	. –
Salinity (ppt):	and the second sec	Salinity (ppt):	the second se	Salinity (ppt)	
Temp. (°F): -	Cor	Temp. (°F):	-	Temp. (°F)	
comments: Attempted to low resistance on W	au down c	aused	pipes (made	Falumi	num to break
Tidal Target SS Inta				Water Depth (ft.)	
Approx. Pump Depth: 0.81			Contract of the second s	rrection to MLLW	
Correction to MLLW:	above mouthly	(	Mudline (Corrected	No. of the second s	
Study Depth (-MLLW):				y Depth (-MLLW)	
Beginning Water Paramete	rs EC (mS/cm):		End Water Para	meters	EC (mS/cm):
Pump Started: 🛁	TDS (ppm/ppt)	): 🛥	Pump Stopped: 🛶		TDS (ppt):
Flow Dates	Salinity (ppt): -		Flow Rate:		Salinity (ppt):
Flow Rate: -	Gamily (ppt).		rion ridic.		
pH: - Plankton Net Comments: Changed TSS CC	Temp. (OF): -	- nethod	pH: - Underwater Camera Obse due to Eroky	nvations: N Pipes: N attatchi Littot Littov	Temp. (°F):
pH: - Plankton Net Comments: Changed TSS CC	Temp. (°F): - Nection W Using PON Ptho Hose W/garmin Ling Sample ments 4 755 (	nethod succes to cov	pH: - Underwater Camera Obse a weight and sight and Firmed hose of mptes conjected b upper	insert ,	Temp. (oF): Lowered hose ed YST to point ne bottom. VS consultant o for lab on 2/27/17
pH: Plankton Net Comments: Changed TSS CC pump to bottom to determine de choss-reterenced on and begain to General Tidal Target SS Comm VE_AOI_072517- AOI_072517-	Temp. (oF): - Nection W Using PON Ptho Hose W garmin Ling sample nents 4 755 SS-N20 BS-N20 BS-N20 R1 -R2	nethod succes to cov	pH: - Underwater Camera Obse a weight and ssfully made Firmed hose of mples Collectored b UT_072517_55	inent -NOS als	Temp. (°F): Lowered hose ed YST to point to bottom. VS crew turned o for lab on 7/27/17 so glaty zed Fo
pH: - Plankton Net comments: Changed TSS CC pump to bottom to determine de choss referenced choss referenced chos	Temp. (oF): - Nection W Using PON Ptho Hose W garmin Ling sample nents 4 755 SS-N20 BS-N20 BS-N20 R1 -R2	nethod succes to cov	pH: - Underwater Camera Obse a weight and ssfully made Firmed hose of mples Collectored b UT_072517_55	insert ,	Temp. (°F): Lowered hose ed YST to point to bottom. VS crew turned o for lab on 7/27/17 so glaty zed Fo
pH: Plankton Net Comments: Changed TSS CC pump to bottom to determine de choss-reterenced an and begain to General Tidal Target SS Comm VE_AOI_072517- AOI_072517- Number of containers and	Temp. (oF): - Ilection W Using POIN Ptho Hose W gample nents 4 755 S-N20 B-N32-R1 -R3 -R3	nethod succes to cov	pH: - Underwater Camera Obse a weight and ssfully made Firmed hose of mples Collectored b UT_072517_55	inent -NOS als	Temp. (°F): Lowered hose ed YST to point to bottom. VS crew turned o for lab on 7/27/17 so glaty zed Fo
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oster SUSPEN	IDED SOLIDS A		ABLOG	
		CONTRACTOR OF THE OWNER	and the second second second second	Loggor:
	No.: 3616166052 Tida	I Target Time: —		Crew: Cf, FA, DY, MB, MM,
Date: 7/26/17 WO: 4A ime: 1545 Tablet		Phase: Rising		Vessel: panala 2
v,				
ocation ID (GPS Point Name): A01	3 - 1		0671000	Long -13.769904
ample Name (Tidal Traget SS):		ple Name (Ponar): -	-	
Veather: SWMU, 80 Winds: 5-10 KM	式 Waters: 1-5	Knots Traffic: 1-	the second se	Water Temp:51°F
1 meter Below MWD Water Parameters		ter Parameters		Mudline Water Parameters
pH:	pH: ~~		pH:	
EC (mS/cm): -	EC (mS/cm): -		EC (mS/cm):	
DS (ppm/ppt):	TDS (ppm/ppt):		TDS (ppm/ppt):	
Salinity (ppt): -	Salinity (ppt): -		Salinity (ppt):	-
Temp. (°F):	Temp. (°F):	A arm at Da	Temp. (°F): Comments:	DON CUI DA
omments: AOI -21-0801	1+-55-17-			2014_SW_R1
Natorial Retained Solid	AOI_21_	080117_SS-1	106-R1;	_RQ, ±R3 _R3
Tidal Target SS Intake Depth Pa			Vater Depth (ft.):	441
	bottom		rection to MLLW:	+9.8
orrection to MLLW: $\uparrow 9.8$	201 torvi	Mudline (Corrected D		-34
tudy Depth (-MLLW): -36			Depth (-MLLW):	~
	/cm):	End Water Paran	the second s	EC (mS/cm): 🛶
		p Stopped:		TDS (ppt):
		Rate: -		Salinity (ppt):
H: / Temp. (9	PF): pH:			Temp. (°F):
Mankton wet to asses	s amount of	i with colle	icted ov	15 minutes in er times.
eneral Tidal Target SS Comments: USe From AOIZO The mod S & weight & A lower UC	a modified	appenatus us used a bei	basied or the press	on the experient with 100 Us and on the apparent
plankton wet to asses	a modified	appenatus us used a bei	basied or the press	on the experient with 100 Us and on the apparent
eneral Tidal Target SS Comments: USe From AOIZO The mod S & weight & A lower UC	a modified itied apparate ities nose an	appenatus us used a bei a pump we de were c	based or the press re used lamped of	on the experient with 100 los on gr on the apparent on above the with nbers
eneral Tidal Target SS Comments: USe From AOI 200 The mod IS a weight, Alower Vo The hose influent, Came	A modified Fied apparation	appenatus us used a ber a pump we de mere c Loca	based or the press re used lamped tion Photo Nur	on the experien with 100 Us on gr on the apparent on above the w nbers tets, 1755, and
reneral Tidal Target SS Comments: USe From AOI 20 The mod G a weight, Alower Vo he hose influent, Came Number of containers and	A modified Fied apparation	appenatus us used a ber a pump we de mere c Loca	based or the press re used lamped tion Photo Nur	on the experient with 100 los on gr on the apparent on above the with nbers
eneral Tidal Target SS Comments: USe From AOI 20 The mod G & weight: A lower UC he hose influent, Came Number of containers and estimated amount:	A modified the apparate the nose at the nose at	appenatus us used a ber de mere c Loca Mon bago	based or the press re used lamped tion Photo Nur allows built	on the experien with 100 Us on gr on the apparat on above the w nbers lets, 1755, and halve tained in
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eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us on a on the apparent on above the w not bove the w not solve the w halve tained in approximately)
eneral Tidal Target SS Comments: USe From ACT 20 The mod S a weight A lower Vo he hose in Flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us on a on the apparent on above the w not bove the w not solve the w halve tained in approximately)
eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us on a on the apparent on above the w not bove the w not solve the w halve tained in approximately)
eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us and on the apparent on above the w not bove the w not sets in the sets halve tained in approximately)
eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us and on the apparent on above the w not bove the w not sets in the sets halve tained in approximately)
eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce	apperatus ve beed a ber de mere c Loca Mon bag o ent measured c	based or the press re used lamped tion Photo Nur allows bud f mater	on the experient with 100 Us and on the apparent on above the w not bove the w not sets in the sets halve tained in approximately)
eneral Tidal Target SS Comments: USe From ACT 20. The mod So weight: Aloner Vo he hose influent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit peployment # Recovery	ties are in Perce Descri	apperatus us used a bei de mere c Loca lected in 2-2gi Mon bag o ent measured o ption	tion Photo Nur Manped a material com by cm (a	er times, on the experient with 100 Us on gr on the apparat photose the u notes tots 1755, and tot vetained in approximately) Sample ID
eneral Tidal Target SS Comments: USe From AOT 20 The mod S a weight Alower Vo he hose in flvent, Came Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantit	ties are in Perce Descri	apperatus us used a bei de mere c Loca lected in 2-2gi Mon bag o ent measured o ption	tion Photo Nur Manped a material com by cm (a	er times, on the experient with 100 Us on gr on the apparat photose the u notes tots 1755, and tot vetained in approximately) Sample ID

wheeler SUSPENI	DED SOLIE	DS AND PONAR G	RABIOG	
Owner: USDC, District of Maine Project N	A REAL PROPERTY OF A REAL PROPERTY OF	Tidal Target Depth (+/- M		Logger: KC
Date: 7/29/17 WO: 4A-0		Tidal Target Time:		Crew: MB, MM, KC
Time: 12.00 Tablet #:		Tidal Phase: (Rising)		Vessel: Panula 2-
		$\subseteq$		Long - 68.7869314
ocation ID (GPS Point Name): AUT-29				test source provide a state of the
Sample Name (Tidal Traget SS):		Sample Name (Ponar):		
Neather: Sin, 13" Winds: 5-10 with	f Waters: 0-	S Knuts Traffic:	0-2 boot	S Water Temp: <u>6.1</u> °F
1 meter Below MWD Water Parameters	Midpoi	nt Water Parameters	1 meter Above	Mudline Water Parameters
pH: ·	pH:		pH	. —
EC (mS/cm):	EC (mS/cm):	~	EC (mS/cm)	-
DS (ppm/ppt):	FDS (ppm/ppt):	<u>~</u>	TDS (ppm/ppt)	
Salinity (ppt):	Salinity (ppt):		Salinity (ppt)	
Temp. (°F):	Temp. (°F):		Temp. (°F) Comments:	
Comments:	Comments:	~	Comments.	
			1	
Tidal Target 00 lately David D	amotore	l .	Woles Death //	
Tidal Target SS Intake Depth Par	ameters		Water Depth (ft.)	
pprox. Pump Depth:			Depth) @ MILW	Second lands that it consists they are been different and an example
Correction to MLLW:		Mudline (Corrected	Depth) @ MLLW Iy Depth (-MLLW)	
Study Depth (-MLLW):	m):	End Water Para		EC (mS/cm):
Beginning Water Parameters EC (mS/c	and the second sec		lineters	
	n/ppt):	Pump Stopped: Flow Rate:		TDS (ppt):
Flow Rate: Salinity (p H: Temp. (°F		pH: -		Salinity (ppt): Temp. (°F):
DH: Temp. (°F Plankton Net Comments:	1.	Underwater Camera Obse	anyations:	10mp. (17,
				-
Hife 2 -> No masterial reta	ined (0, #1	40sieve) Hote		
General Tidal Target SS Comments: Histe 2 -> No meetenical neta 5 G.P.M ~18" From Bottom	ined (0, #1	40 sieve) Hote		to p mulline, ed of mulline, ed B-minute test
~ 18 From Bottom		Loc	Lenal	ed S-minute test cours
~18" from Bottom			Lenal	ed S-minute test cours
~18" from Bottom		Loc	Lenal	ed S-minute test cours
SGRM       Software         Number of containers and       1-2 gill         estimated amount:       1-2 gill         2-Gallon Buckets with Sample:       Ponar	Tidal Target SS	Loc IMG1_0487	end ation Photo Nu to TMC	mbers M-0491
SGRM Number of containers and estimated amount: 2-Gallon Buckets with Sample: Ponar Ponar Recovered Quantiti Deployment # Recovery	Tidal Target SS es are in P	Loc ImGI_0487 ercent measured	end ation Photo Nu to TMC cm by cm (	abers approximately) Sample ID
SGPM       Software         Number of containers and estimated amount:       1-2 gul         2-Gallon Buckets with Sample:       Ponar         Ponar Recovered Quantiti       Deployment # Recovery         1       90%         1       90%         1       90%         1       90%         1       90%         1       90%         1       90%         1       90%         1       90%         1       10%         1       10%	Tidal Target SS es are in P MovTh & O YR 6/3 O YR 6/3 JGI Silt, T	Loc IMGI_0487 ercent measured Description Silt, TR wch R twigs, TR sand	end ation Photo Nu to TMC cm by cm ( cm by cm ( cm by cm ) non- colin, non- colin,	approximately) Sample ID Sivery en board on-play, TR Stud hon-play, TR Stud
SGRM       From Bottom         Number of containers and estimated amount:       1-2 gill         2-Gallon Buckets with Sample:       Ponar         Ponar Recovered Quantiti       Ponar         Deployment #       Recovery         1       907.         1       907.         1       707.         1       707.         1       707.         1       707.         1       707.         1       707.         1       707.         1       707.	Tidal Target SS es are in P MovTh & O YR 6/3 O YR 6/3 JGI Silt, T	Loc ImGI_0487 ercent measured	end ation Photo Nu to TMC cm by cm ( cm by cm ( cm by cm ) non- colin, non- colin,	approximately) Sample ID Sivery en board on-play, TR Stud hon-play, TR Stud
SGRM       Software         Number of containers and estimated amount:       1-2 gill         2-Gallon Buckets with Sample:       Ponar         Ponar Recovered Quantiti       Deployment # Recovery         1       907.       Large rock in Top 2 cm = 1         1       907.       Top 2 cm = 1         1       1       Top 2 cm = 1	Tidal Target SS es are in P MovTh & O YR 6/3 O YR 6/3 JGI Silt, T	Loc IMGI_0487 ercent measured Description Silt, TR wch R twigs, TR sand	end ation Photo Nu to TMC cm by cm ( cm by cm ( cm by cm ) non- colin, non- colin,	approximately) Sample ID Sivery en board on-play, TR Stud hon-play, TR Stud



\_\_\_\_\_ B gpz \_\_\_\_\_ cz Z gkz

## SUSPENDED SEDIMENT/WOODY DEBRIS FIELD LAB PROCESSING LOG

wheeler Owner: USDC, District of Maine	Project No.: 3616	166052	Start Date: (Ø		and the second se	108/2017	Prepared by:	I. Tiller	
Sample ID: AOI20	WO: 4A-060		Start Time: / 2	- 0	End Time: -	-	12. Casas		field lead and assists)
Field Bucket ID		ar adult	Bucket	Observations		nās ir ar statu tarti statu tarti statu		ial Sample Wei	and the second se
			Ducket					a sample we	BIIC
Field Bucket ID	Biota	Settling Solids	Floating Solids	Sheen	Ot	ner:	Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Net wt contains of bucket (g)
1) AOI 20 bucket	8/20 0	(V) N	Ø N	Y KO	Ð	-	7500	420	7080
2AOIZObucket 5	120 0	Ø	Ø N	Y D	.e		7750	422	7328
"AOI 20 bucket!	15/20 1	<u>()</u> N	1 DN	۲Ď	0	·	8000	430	7570
ADE 20 bucket	18/20 0	Ø N	Ø N	Y Ø	€		7000	425	6575
5)ADIZO bucket	17/20 0	<u> N</u> N	<u> </u>	Y 🔊	Æ		7500	434	FOGE
6)A017.0 bucket	17/20 0	(V) N	N	Y 🔊	Æ		6000	428	3572
140120 bucket	14/20 0	Ø N Ø N	<u>Ø</u> ×	<u> </u>	€		7750	426	7324
a) nAOI 20 bucket	10/20 0	DN N	<u> </u>	Y E		¥	+250	14-34	6816
10) AD I 20 bucket		(DN)		Y D			1500	433	FOLS
1) MAD I 20 bucket	7120 0	ØN		Y 10			7756	TAD	7322
Wet Sieving	7100 0	0		342	and the second se		ying Dry Coarse	431	
Start End	# 40		Retained Photos	wet Co	arse Fraction Soli		ven Dry Coarse	e Fraction Solid	ls Weights
Date: 10.08.17 10.08.17	# 40 -			7542	2425	2108-	(5°F)	_	_
ime: 12:45 1615	# 200		Combine & Weigh (w	et) Fuil wt (g)	Empty wt (g)	Net wt (g)	Full wt (g)	Empty wt (g)	Net wt (g)
	Sieve Passing	the later of the			2	THE REAL PROPERTY.		couply on (B)	
Sieve Passing Mixing	Sieve Passing		2			Final Liqui	d Weight		
Date: 10.08.17 10.08.17		TSS Sample Name	@1315_	Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Net wt contains of bucket (g)	Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Net wt contains of bucket (g)
ime: 1627 1704	40120		082017_SWR	6250	425	50.75	1500	427	6023
Field Office TSS Calculation			2017-5W-R2		430	6070	57510	437	5318
Cw (B) 2108,0-		120320	17-SU-R3	6000	428	5572	3250	4200	3370
Fw (g) 217.27 - Ww (g) =	357 50	1825	TI-co-v	16500	427	6973		-LOF	224
Ca (B) 171.8	1018			6750	431	6319			_
$F_d(g)$ $GO, OO$ $W_d(g) = 2$				1500	426	6974		-	
S (g)125,865.00 Sal (ppm) =2				LEDRA	426	6074	_		-
Percent SS (%) =	KINC			10250	439	5820			-
Total Filter Passing Vol $(pri)(L) = ($	69.76			6250	417	5823			
Total Filter Passing Vol (mt)(L) = ( 117,0	19.000 - 117.0	2L	(i)	Si	- w		-		
Comments:	9			W/Fish	w/Elect	Teinic		and the second second	
				Seale	Balar	100			
				- m	A mus	-	١.		x . 1.
				Same	: meth	ed for a	ther w.	eights.	tallen
Clarifying Inform	ation Records	ed by	(F. Last ! [	Date): K	· Casey ; 1	2/7/201	7 1/10	011	LMTIZZ
0		T	/		(T		all	······································	LIN 1 19



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### SUSPENDED SEDIMENT/WOODY DEBRIS FIELD LAB PROCESSING LOG

	Project No.: 3616166052	Start Date: 10	510812017	End Date: 10/	08/2014	Prepared by:	K. Casey	
ample ID: AOエ えの	WO: 4A-060	Start Time: 1		End Time:	~		iller mitials of	Field lead and assists
Field Bucket ID		Bucket	Observations			<u>Ir</u>	itial Sample Wei	ight
Field Bucket ID	Biota Settling Soli	ds Floating Solids	Sheen	Ot	her:	Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Net wt contains o bucket (g)
"ADJODNILLET 720	<u> </u>	N	YN		2	7500	431	7069
2) A OF JO bucket 9/20	T _ QN	<u>`</u>	Y @	- 4	/	7500	426	7074
3)A0120 bucket 20/20	8_0×_0×	Er h	Y O	E	2	3750	427	2323
ADIJObucket 6/20	ON ON	Q_N	Y Ø	E	7	7500	425	7075
540120 bucket 13/20	N	(Y) N	YN	R		75DE	433	7067
"10120 bucket 19/20	D D ON	N	Y W	t	7	7500	427	7072
"AOI 20 bullet 16/20	Ø ON	0 N	Y Ø	¢	7	7250	425	6825
8) AOT 20 hucket 4/20	P ON	ØN	YØ	Ē	>	5500	428	5072
9)		+N	~ <del>~~N</del>		-			
ADX -		TN	-Y-W	-	-	-		-
Der -		XN	- TA				~	
Wet Sieving		Retained Photos	Wet Coa	arse Fraction Soli	ds Weights	Drying Dry Coal	se Fraction Solic	ls Weights
Start End	# 40		700 g	KC		(225°F)		
ate: —	# 60		► - ·	1.		-		
ïme:	# 200	Combine & Weigh (w	vet) Full wt (g)	Empty wt (g)	Net wt (g)	Full wt (g)	Empty wt (g)	Net wt (g)
Sieve Passing Mixing		Combine & Weigh (w	vet) Full wt (g)	Empty wt (g)	a succession and the second second	Section of the sectio	Empty wt (g)	Net wt (g)
Sieve Passing Mixing	# 200 Sieve Passing	Combine & Weigh (w			Final Lic	quid Weight		
Sieve Passing Mixing Start End	Sieve Passing		Full wt of full total	Empty wt of empty	Final Lic	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of
Sieve Passing Mixing Start End Date:				Empty wt of empty	Final Lic Net wt contains of bucket (g)	quid Weight		
Sieve Passing Mixing Start End Pate:	Sieve Passing TSS Sample N		Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Final Lic Net wt contains of bucket (g) 5821	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing Start End Date:	Sieve Passing		Full wt of full total	Empty wt of empty	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing Start End Pate:	Sieve Passing TSS Sample N		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket (g)	Final Lic Net wt contains of bucket (g) 5821	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing Start End ate:	Sieve Passing		Full wt of full total bucket (g)	Empty wt of empty bucket (g)	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
$\frac{\text{Sieve Passing Mixing}}{\text{start}}$ $\frac{\text{Start}}{\text{me:}}$ $\frac{\text{Field Office TSS Calculations}}{\text{w}(g)}$ $W_w(g) = \_$	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket (g)	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
$\frac{\text{Sieve Passing Mixing}}{\text{Start}}$ $\frac{\text{Start}}{\text{End}}$ $\frac{\text{Ind}}{\text{Ind}}$ $\frac{\text{Field Office TSS Calculations}}{\text{Ww}(g)} = \underline{\qquad}$	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket (g) 429 4224 4224 4223	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
$\frac{\text{Sieve Passing Mixing}}{\text{Start}}$ $\frac{\text{Start}}{\text{me:}}$ $\frac{\text{Field Office TSS Calculations}}{\text{W}_w(g)}$ $\frac{\text{G}_d(g)}{\text{G}_d(g)}$ $W_w(g) =$ $W_w(g) =$	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket $(g)$ 429 424 422 422 422 422 423 423 423 423	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing         Start       End         ime:	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket $(g)$ 429 424 422 422 422 422 422 422	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing         Start       End         Pate:         ime:	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket $(g)$ 429 424 422 423 424 424 424 424 424 424 424 424 424	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)
Sieve Passing Mixing         Start       End         Pate:         ime:	Sieve Passing		Full wt of full total bucket (g) 6000 5500	Empty wt of empty bucket $(g)$ 429 424 422 422 422 422 422 422	Final Lic Net wt contains of bucket (g) 582-1 557-1	quid Weight Full wt of fuli total	Empty wt of empty	Net wt contains of bucket (g)



# 1\_ or 1\_

## SUSPENDED SEDIMENT/WOODY DEBRIS FIELD LAB PROCESSING LOG

#### WET TO DRY WEIGHT CONVERSION FORM

(In General Accordance with ASTM D2216)



PROJECT NAME: PENOBSCOT RIVER PHASE III ENGINEERING STUDY PROJECT NUMBER: 3616166052

			ELAPSED	DATE: TIME: TIME (mins):	13:30	11/21/2017 18:45 315	11/22/2017 08:35 1,145	11/22/2017 09:45 1,215	11/22/2017 10:55 1,285	11/22/2017 12:05 1,355					
CORE L	LOCATION	SAMPLE NO.	SAMPLE DEPTH (ft)	TARE WEIGHT (g)	TARE + WET SOIL (g)	1 TARE + DRY SOIL (g)	2 TARE + DRY SOIL (g)	3 TARE + DRY SOIL (g)	4 TARE + DRY SOIL (g)	5 TARE + DRY SOIL (g)	PERCENT CHANGE (%)	WET WEIGHT OF SAMPLE (g) <sup>1</sup>	DRY WEIGHT OF SAMPLE (g)	WET CONTENT OF SAMPLE (%) <sup>2</sup>	DRY CONTENT OF SAMPLE (%) <sup>3</sup>
VE	-05-01	Sample 1	1-1.5	654.77	777.45	667.28	667.99	667.06	666.89	666.78	0.014%	141.99	12.01	1,182	8.5
VE	-05-01	Sample 2	1-1.5	185.55	298.39	194.49	195.12	194.49	194.34	194.32	0.007%	121.79	8.77	1,389	7.2
VE	-05-01	Sample 3	1-1.5	182.12	288.15	193.01	193.56	192.85	192.71	192.70	0.003%	117.48	10.58	1,110	9.0

#### Notes:

1. Determined during sample preparation.

2. With respect to dry basis (e.g., (wet weight / dry weight) \* 100).

3. With respect to wet basis (e.g., (dry weight / wet weight) \* 100).

Abbreviations:

% = Percent

ft = feet/foot g = grams

Page 1 of 1

Prepared by: DRY 5/8/2018 Checked by: KMC 5/8/2018



# APPENDIX C-2 EROSIONAL INDICATOR MEASUREMENT FDRS

emec						Phase III Engineering IENT LOG - FIELD RE												
Owner: USDC, District	of Maine	Project No.: 36					Measurement Taker: Julia Ti	llery										
Sub: NA		WO: 4A060					Crew: Karina Casey (CAPTA	IN), Julia Tillery, N	Meg Stemper									
Tablet #: PLAN: 10 AREAS: 10	MEASUREMENTS AT EACH	Date: 9-26-17	, 		Time : 7:00 am		Vessel(s): Skiff, kayak Tidal Restricted Location?	/FS			-							
ACTIVITIES:							I											
NOTE: Not able to ac Small (S) = 0 to 5 inch Conversion of estima S = 0 to 5 inches > co M = 5 to 10 inches > c L = 10 to 15 inches > (	ILET MEASUREMENTS AT cess mudline for direct mes es / Medium (M) = 5 to 10 ir tes in inches to centimeters nverted to average of 2.5 in converted to average of 7.5 converted to average of 12. ume 25.5 inches average) x	asurements. De nches / Large (L s is average of ches x 2.34 cm inches x 2.34 cd 5 inches x 2.34	eveloped estimated si L) = 10 to 15 inches / l each measurement (r h/inch = 6 cm m/inch = 18 cm cm/inch = 30 cm	ize as follows and Extra Large (XL) =	I marked on rulers: = Greater than 15 ir	iches	DRELINE (ON-RV-6 THROUGH C	DN-RV-10)						FIELD NOT	TES & OBSERVATIONS			
Weather: Sunny		Winds: Breez	zy	Water: Chopp	у		Traffic: Powerboats, yachts		Water Temp:	•F	-							
Erosive Feature Ident Naming Convention = M	ification IU(_NAME_)-RV(RIVULET)N	IUMBER_ (1-10),	, e.g. MM-RV-1 WAS 1S	T MEASUREMENT	TAKEN AT MENDAL	L MARSH AREA												
MEASUPEMENT # (	MANAGEMENT UNIT	RIVULET ID	TIME OF	WIDTH AT	MEASUREN VISUAL DEPTH /		ESTIMATED	GPS	PHOTO	LOCATION	Water Presen	t Overlying	Wood Waste (WW	) Uniform	Surface Water	Vegetation	Boulders	Approx. Distance To Vegetation,
of 10)	(MU)	NIVOLET ID	MEASUREMENT	WATERLINE (cm)	WATERLINE (cm)	RESISTANCE AT WATERLINE (cm)	MEASUREMENTS IF WATERLINE NOT ACCESSIBLE	RECORDED?	TAKEN?		in Rivulet?	Water Present	?	Straight Terraced Zig Zag Eroded Bank	Feeding In From River?	vigention	Douidera	Treeline, Rockline Estimate or GIS
1	Orrington	RV-1	9:00 AM	18	6	NA	M/S (MEDIUM WIDTH/SMALL DEPTH)	. yes	yes	East shoreline	yes	yes	yes, brown surface, black rivulets		yes	upslope grasses, reeds	yes	100 ft estimate
2	Orrington	RV-2	9:20 AM	6	6	NA	S/S	yes	yes	East shoreline	yes	yes	yes, brown surface, black rivulets		yes	upslope grasses, reeds	yes	100 ft estimate
3	Orrington	RV-3	9:40 AM	6	18	NA	S/M	yes	yes	East shoreline	yes	yes	yes, brown surface, black rivulets	continues upslope behind boulders or into treeline	yes	upslope grasses, reeds	yes	100 ft estimate
4	Orrington	RV-4	10:00 AM	18	18	NA	M/M	yes	yes	East shoreline	yes	yes	yes, brown surface, black rivulets	continues upslope behind boulders or into treeline	yes	upslope grasses, reeds	yes	100 ft estimate
5	Orrington	RV-5	10:30 AM	70	6	NA 17	M/S (deeper meters upslope)	yes	yes	East shoreline	yes	yes	yes, brown surface, black rivulets	continues upslope behind boulders or into treeline	ves	upslope grasses, reeds	yes	100 ft estimate 100 ft estimate
ь 7	Orrington	RV-6 RV-7	11:40 AM 11:50 AM	70	12	17 NA	M/L	yes	yes	East shoreline West shoreline	yes	ves	yes, brown coating on surface yes, brown coating	1 long zig zag rivulet that continues upslope behind boulders or into treeline 1 long zig zag rivulet that	yes	upslope grasses, reeds upslope grasses,	yes	100 ft estimate
8	Orrington	RV-8	12:20 PM	18	6	NA	M/S	ves	ves	West shoreline	ves	ves	on surface yes, brown coating	continues upslope behind boulders or into treeline	ves	upslope grasses, upslope grasses,	yes ves	100 ft estimate
9	Orrington	RV-9	12:30 PM	18	6	NA	M/S	ves	ves	West shoreline	yes	ves	on surface yes, brown coating	continues upslope behind boulders or into treeline	ves	upslope grasses,	ves	100 ft estimate
10	Orrington	RV-10	12:40 PM	30	6	NA	L/S	ves	Ves	West shoreline	yes	yes	on surface	continues upslope behind boulders or into treeline 1 long zig zag rivulet that	Ves	upslope grasses,	ves	100 ft estimate
11	Orrington	RV-11	12:40 PM	18	18	NA	M/M	yes	yes	West shoreline	yes	yes	on surface yes, brown coating	continues upslope behind boulders or into treeline 1 long zig zag rivulet that	yes	reeds upslope grasses,	yes	100 ft estimate
									PHOTOGRAPHS				on surface	continues upslope behind boulders or into treeline		reeds		
PHOTO 1				РНОТО 2				РНОТО 3				РНОТО 4				РНОТО 5		
PHOTO 6				PHOTO 7				PHOTO 8				РНОТО 9						
	RISING TIDE NEEDED TO BE A																_	
Aboard Vessel Information	n Recorded by (F. Last, date): M	eg Stemper, 9-26	5-17	MS 9-26-17		& PHOTOS & RECORD SUREMENTS			Checked By (F. L	ast; date)								
Clarifying Information Red	corded by (F. Last; date);			JT 9-26-17	GPS (	COORDINATES		1	D. Young; 12/0	06/2017								
Landside Information Rec	corded by (F. Last; date):			NA														



## Penobscot River Mercury Study - Phase III Engineering Study

foster wheeler	E	ROSIVE IND	ICATOR MEA	ASUREMENT	LOG - FIELD R	ECORD										
Owner: USDC, District of	f Maine	Project No.: 3616	6166052			Logger: KC										
Sub: NA		WO: 4A060				Crew: KC, CP, M	s									
Tablet #: Android		Date: 9/23/17		Time : 9:15AM -	- 3:15PM	Vessels: PONTO	ON, CANOE									
PLAN.: 10 AREAS, 10 M	IEASUREMENTS AT EAC	н				Tidal Restricted I	Location? YE	S								
	Y 10 AREAS WHERE ME ET MEASUREMENTS AT				HROUGH BU-RV-5						FIEL	D NOTES & OBSERVATIONS				
Weather: SUNNY	Winds: LIGHT BREEZE															
Erosive Feature Ide	entification				1				1							
Naming Convention :	= MU(_NAME_)-RV(RI	VULET)NUMI	BER_ (1-10), e.g	g. BU-RV-1 WA	S 1ST MEASUREM	ENT TAKEN AT	BUCKSPOR	T AREA								
			MEA	SUREMENT	s				1							
	MANAGEMENT UNIT (MU)	RIVULET #	WIDTH AT WATERLINE (cm)	VISUAL DEPTH AT WATERLINE (cm)	RULER RESISTANCE AT WATERLINE (cm)	GPS RECORDED?	PHOTO TAKEN?	LOCATION	Water Present in Rivulet?	Overlying Water Present?	Wood Waste (WW)	Uniform Straight Terraced Zig Zag Froded Bank	Surface Water Feeding In From River?	Vegetation	Boulders	Approx. Distance To Vegetation, Treeline Rockline
1	Bucksport	RV-1	56	8	12	YES	PHOTO 1 BELOW	BETWEEN GROINS	YES	NO	FINE BROWN WW FILM AT SHORELINE WIDE BAND OF THICKER WW TOP OF SHORELINE IN VEGETATED AREAWITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
2	Bucksport	RV-2	34	5	6		PHOTO 2 BELOW	BETWEEN GROINS	YES	NO	FINE BROWN WW FILM AT SHORELINE WIDE BAND OF THICKER WW TOP OF SHORELINE IN VEGETATED AREAWITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
3	Bucksport	RV-3	39	6	6	YES	NO	BETWEEN GROINS	YES	NO	FINE BROWN WW FILM AT SHORELINE WIDE BAND OF THICKER WW TOP OF SHORELINE IN VEGETATED AREAWITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
4	Bucksport	RV-4	54	7	7	YES	NO	BETWEEN GROINS	YES	NO	FINE BROWN WW FILM AT SHORELINE WIDE BAND OF THICKER WW TOP OF SHORELINE IN VEGETATED AREAWITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
5	Bucksport	RV-5	100	18	18	YES	NO	BETWEEN GROINS	YES	NO	FINE BROWN WW FILM AT SHORELINE WIDE BAND OF THICKER WW TOP OF SHORELINE IN VEGETATED AREAWITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
			1		1	1			PHOTOGRAPH	ls.			i	i	i	1



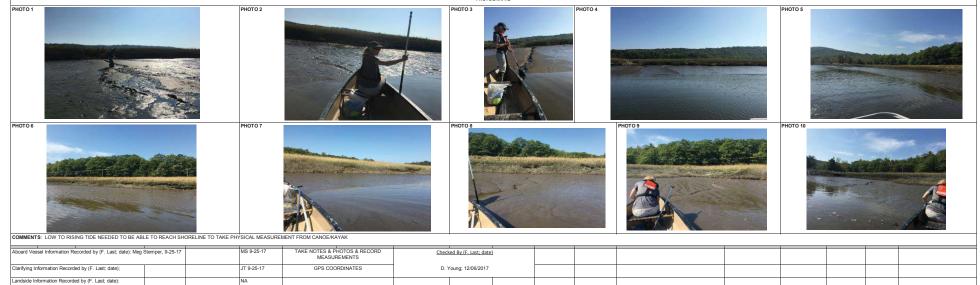


		Comments							
LOW TO RISING TIDE NEEDED TO BE ABLE	TO REACH SHORELINE TO	TAKE PHYSICAL MEASUREMENT	FROM CANOE						
Aboard Vessel Information Recorded by (F. La	ast; date): MS 9/23/17	TAKE NOTES & RECORD MEASUREMENTS	Che	cked By (F.	ast; date)				
Clarifying Information Recorded by (F. Last; d	ate); KC 9/2/317	GPS COORDINATES	D.	Young; 12/	06/2017				
Landside Information Recorded by (F. Last; da	ate): NA								

hea er				TOR MEASURE	MENT LOG - FIELD												
wner: USDC, District of Maine	2	Project No.: 3616	166052			Logger: KC											
ab: NA		WO: 4A060				Crew: KC, CP, MS											
ablet #: Android		Date: 9/27/17		Time : 9:15AM - 1	45 PM	Vessels: PONTOON, CANO											
AN.: 2 AREAS, 5-10 MEASU	JREMENTS AT EACH					Tidal Restricted Location	YES										
CTIVITIES: OLLECTED RIVULET MEAS	SUREMENTS AT BUCKSPORT V	VESTERN SHORELI	NE: BU-RV-6 THRO	DUGH BU-RV-10 & A	T FRANKFORT FLATS WE	STERN SHORELINE: FF-RV-	1 THROUGH FF-RV-	2				FIEL	D NOTES & OBSERVATIONS	•			
eather: SUNNY	Winds: LIGHT BREEZE		1		L			1	L	-							
rosive Feature Identific aming Convention = MU	cation J(_NAME_)-RV(RIVULET)M	UMBER_ (1-10),	e.g. BU-RV-1 WA	S 1ST MEASUREN	IENT TAKEN AT BUCKS	SPORT AREA				Ì							
		RIVULET ID	WIDTH AT	MEASURE			GPS	рното	LOCATION	Water Present in	1	I	Uniform	Surface Water	Vegetation	Bouldare	
MEASUREMENT # ( of 10)	(MU)		WATERLINE (cm)	AT WATERLINE (cm)	AT WATERLINE (cm)	WIDTH/DEPTH IF UNABLE TO MEASURE	RECORDED?	TAKEN?		Rivulet?	Overlying Water Present?	Wood Waste (WW)	Straight Terraced Zig Zag	Feeding In From River?		boulders	Approx. Distance 1 Vegetation, Treelin Rockline
	BUCKSPORT	RV-6	6	6	NA	SMALL WITH OVERLYING WATER	YES	YES	BETWEEN GROINS	YES	YES	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX.3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE INTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	BUCKSPORT	RV-7	8	3	5	NA	YES	YES	BETWEEN GROINS	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE NTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	BUCKSPORT	RV-8	9	3	4	NA	YES	YES	BETWEEN GROINS	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE NTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	BUCKSPORT	RV-9	12	5	6	NA	YES	YES	BETWEEN GROINS	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE INTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	BUCKSPORT	RV-10	1700	550	NA	17 METERS LONG PARALLEL TO SHORE 5-6 METERS WIDE PERPENDICULAR TO SHORE	YES	YES	BETWEEN GROINS	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE INTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM (ONE RIVULET) ZIG ZAG (SOFT CURVES)	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	FRANFORT FLATS	RV-1	1500	500	NA	15 METERS LONG ERODED BANK 5 METER WIDE PERPENDICULAR TO SHORE	YES	YES	EASTERN SHORE	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE INTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM ERODED BANK PARALLEL TO SHORE UNIFORM LARGE RIVULET PERPENDICULAR TO SHORE BEHIND ERODED BANK	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
	FRANFORT FLATS	RV-2	1500	500	NA	16 METERS LONG ERODED BANK 5 METER WIDE PERPENDICULAR TO SHORE	YES	YES	EASTERN SHORE	YES	NO	FINE REDDISH BROWN WW FILM AT SHORELINE APPROX. 3 METER WIDE BAND ALONG SHORELINE THAT FOLLOWS RIVULET UP SHORELINE INTO VEGETATED AREA WITH MANY SMALL RIVULETS IN WW	UNIFORM ERODED BANK PARALLEL TO SHORE UNIFORM LARGE RIVULET PERPENDICULAR TO SHORE BEHIND ERODED BANK	NO BUT LIKELY STREAMFED FROM TOP OF SHORELINE AT OTHER TIMES	GRASSES TOP OF SHORELINE	SOME TOP OF SHORELINE	>50 FEET TO GRASSES >100 FEET TO TREELINE
1									PHOTOGRAPH	s							
HOTO 1	1			i k				PHOTO 2		e.							
		-										1024 AD 1					
жното з	- 7	104	-3	2				PHOTO 4				X	3				

		Comme	nts												
OW TO RISING TOE REEDED TO BE ABLE TO REACH SHORELINE TO TAKE PHYSICAL MEASUREMENT FROM CANOE OR KAYAK															
Aboard Vessel Information Recorded by (F. Last; date):	MS 9/27/17	TAKE NOTES & RECORD MEASUREMENTS		Checked By (F. Last; date)											
Clarifying Information Recorded by (F. Last; date);	JT 9/27/317	GPS COORDINATES		D. Young; 12/0	06/2017										
Landside Information Recorded by (F. Last; date):	NA														

ne: TY ister havier					EMENT LOG - FIELD	RECORD											
ner: USDC. District of Main	1e	Project No.: 36161				RECORD	Measurement Taker: Ju	ia Tillery									
b: NA blet #:		WO: 4A060 Date: 9-25-17			Time : 9:15 am		Crew: Karina Casey (CA Vessel(s): Pontoon, can	Crew: Karina Casey (CAPTAIN), Julia Tillery, Meg Stemper									
AN.: 10 AREAS. 10 MEASI	IDEMENTS AT EACH	5410.0-20-17			1110.0.10 011		Tidal Restricted Locatio		-								
CTIVITIES:	OREMENTS AT EACT						ridar Resulcted Edcado	11 123									
) COLLECTED RIVULET M	IEASUREMENTS AT Mendall Ma	IRASTERN SHOP	ELINE (MM-RV-1 THROUG	3H MM-RV-5) & WE	STERN SHORELINE (MM-I	RV-6 THROUGH MM-RV-10	))						FIELD NOTES & OBSERVA	TIONS			
Weather: Sunny Winds: Breezy Water: Choopy						Water Temp: •F											
Erosive Feature Identifi	la stila a																
	ICATION I(_NAME_)-RV(RIVULET)NU	MBER_ (1-10), e.g	MM-RV-1 WAS 1ST ME	ASUREMENT TAI	KEN AT MENDALL MARS	SH AREA				1							
				MEASURE	MENTS					1							
MEASUREMENT # ( of 10)	MANAGEMENT UNIT (MU)	RIVULET ID	TIME OF MEASUREMENT	WIDTH AT WATERLINE (cm)	VISUAL DEPTH AT WATERLINE (cm)	RULER RESISTANCE AT WATERLINE (cm)	GPS RECORDED?	PHOTO TAKEN?	LOCATION	Water Present in Rivulet?	t Overlying Water Present?	Wood Waste (WW)	Uniform Straight Terraced Zig Zag Eroded Bank	Surface Water Feeding In From River?	Vegetation		Approx. Distance To Vegetation, Treeline Rockline Estimate or GIS
	Mendall Marsh	RV-1	10:00 AM	62	5.5	5.5	yes	yes	East shoreline	yes	yes	yes, fine brown film	1 main uniform rivulet, 2 smaller rivulets at waterline		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-2	10:05 AM	27	4	6.5	yes	yes	East shoreline	yes	yes	yes, fine brown film	1 smaller zig zag rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-3	10:10 AM	8	2	5	yes	yes	East shoreline	yes	yes	yes, fine brown film	1 smaller zig zag rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-4	10:20 AM	25	12	12	yes	yes	East shoreline	yes	yes	yes, fine brown film	1 deep cut uniform rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-5	10:30 AM	15	5	8	yes	yes	East shoreline	yes	yes	yes, fine brown film	1 deep cut uniform rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-6	10:50 AM	40	6	11	yes	yes	West shoreline	yes	yes	yes, fine brown film	1 shallow uniform rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-7	11:00 AM	70	11	15	yes	yes	West shoreline	yes	yes	yes, fine brown film	1 deep cut zig zag rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-8	11:15 AM	88	9	12	yes	yes	West shoreline	yes	yes	yes, fine brown film	1 deep cut zig zag rivulet		upslope grasses, reeds	no	100 ft estimate
	Mendall Marsh	RV-9	11:20 AM	25	5	7	yes	yes	West shoreline	yes	yes	yes, fine brown film	1 deep cut zig zag rivulet		upslope grasses, reeds	no	100 ft estimate
				1	1		ves	ves	West shoreline	1	ves	yes, fine brown film	1 deep cut zig zag	ves	upslope	no	100 ft estimate





APPENDIX D PHOTO LOGS



# APPENDIX D-1 SUSPENDED MATERIAL COLLECTION PHOTO LOG



### PHOTO 1: Phase 1 of sampling method using metal rods to extend sampling hose into water column.



### **PHOTO 2:**

Adaptation of phase 1 of sampling method using petite ponar to lower sampling hose and sonde probe into water column.



## PHOTO 3:

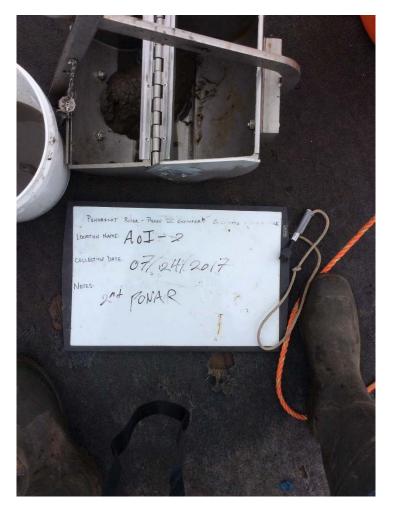
Phase 2 of sampling method using weighted apparatus and 2 hoses for sample collection.

Suspended Material Collection WO-4A-60



PHOTO 4: Adjusted and final phase 2 sampling method using weighted apparatus, sonde probe, single hose, and water camera for sample collection.





PENDESCOT RIVER - PHASE I ENDINGER EVILL LOCATION NAME: AOI - 7 COLLECTION DATE: 14. 2017 NOTES:

PHOTO 6: AOI-7 ponar grab sample. Sample was mixture of silt and wood waste.



PHOTO 7: AOI-11 ponar grab sample. Sample was mainly silt.



**PHOTO 8:** Petite ponar grab sample method.



РНОТО 9:

Potential suspended sediment (blue and red color) observed over river bottom (yellow color) on Garmin sonar at AOI-21.



PHOTO 10: Sonde and hose apparatus used for the September 19, 2017 sampling event.



**PHOTO 11:** Wood waste collected from the sonde and hose apparatus during the September 19, 2017 sampling event.



PHOTO 12: The net apparatus used for the September 19, 2017 sampling event.



**PHOTO 13:** 

Wood waste collected in the net apparatus during the September 19, 2017 sampling event.



# APPENDIX D-2 BEDROCK, BOULDER AND HARDPAN COVERAGE EVALUATION PHOTO LOG



PHOTO 1: Reach: Bangor Location Name: BBR-01 Photo Direction: North



PHOTO 2: Reach: Bangor Location Name: BBR-02 Photo Direction: Southeast



PHOTO 3: Reach: Orrington Location Name: BBR-03 Photo Direction: Southeast



PHOTO 4: Reach: Orrington Location Name: BBR-04 Photo Direction: Northwest



PHOTO 5: Reach: Winterport Location Name: BBR-05 Photo Direction: Northwest



PHOTO 6: Reach: Winterport Location Name: BBR-06 Photo Direction: Southeast



PHOTO 7: Reach: Verona Northeast Location Name: BBR-07 Photo Direction: Northwest



PHOTO 8: Reach: Verona Northeast Location Name: BBR-08 Photo Direction: Southeast



PHOTO 9: Reach: Bucksport Thalweg Location Name: BBR-09 Photo Direction: West



PHOTO 10: Reach: Bucksport Thalweg Location Name: BBR-10 Photo Direction: East

Penobscot River Phase III Engineering Study – Penobscot River, Maine 3616166052



PHOTO 11: Reach: Verona West Location Name: BBR-11 Photo Direction: East



PHOTO 12: Reach: Verona West Location Name: BBR-12 Photo Direction: West



PHOTO 13: Reach: Verona East Location Name: BBR-13 Photo Direction: Northwest



PHOTO 14: Reach: Verona East Location Name: BBR-14 Photo Direction: South

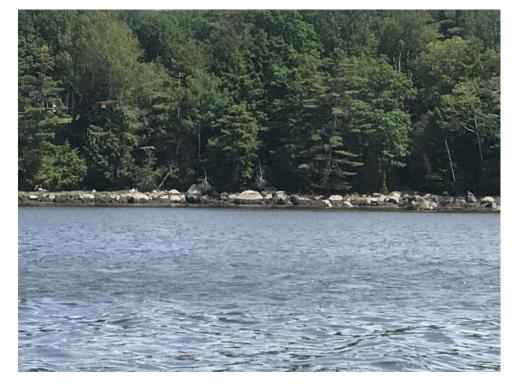


PHOTO 15: Reach: Orland River Location Name: BBR-15 Photo Direction: East



PHOTO 16: Reach: Orland River Location Name: BBR-16 Photo Direction: West