

PENOBSCOT RIVER MERCURY PROJECT

[illegible]

STUDY AREA: Mendall W21-UM - West-A min-Carb  
 SAMPLING DATE: 9/17/2017  
 TIME OF SAMPLING: 3:30 - 4:15 pm 9:30 am  
 TIME OF FILTRATION: 7:30 - 8:15 pm ready ASAP  
 FIELD SAMPLING DONE BY: STB, CG, ABS freezer on dry ice  
 SAMPLING METHOD: pre water sample in field  
0.30 filtration time

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7012	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refrig	all samples placed on wet ice in PP syring
PB17-7013	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	pH	none	15 ml PP tube	none	in field
PB17-7014	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	keep in ice til frozen
PB17-7015	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	Freeze very sample for CBL
PB17-7016	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7017	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7020	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	cell mirrors 0-3um
PB17-7023	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7024	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	pH	none	15 ml PP tube	none	
PB17-7025	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	
PB17-7026	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7027	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7028	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7031	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7034	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7035	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	pH	none	15 ml PP tube	none	
PB17-7036	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	
PB17-7037	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7038	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7039	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7042	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	

No sulfide smell in field or in samples!  
 Western Central  
 NH4 probe misbehaving  
 Free NH4 samples for analysis by CBL

Pro water

Mini-Cores

STUDY AREA:	W21-UM - West-A
SAMPLING DATE:	9/17/2017
TIME OF SAMPLING:	3:30 - 4:15 pm
TIME OF FILTRATION:	7:30 - 8:15 pm
FIELD SAMPLING DONE BY:	JTB, CG, ABS
SAMPLING METHOD:	pro water sippers

9/18/2017  
3-4:30 pmShaded/Asap  
6:00 to 4:15 pm  
5:00 to 4:15 pm  
5:00 to 4:15 pm

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7045	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refridge	
PB17-7046	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	pH	none	15 ml PP tube	none	
PB17-7047	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	
PB17-7048	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7049	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7050	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7053	P8 plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7056	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refridge	
PB17-7057	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	pH	none	15 ml PP tube	none	
PB17-7058	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	
PB17-7059	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7060	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7061	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7064	P8 plots 2017	W21-UM - West-A	Control	R2.4-Control	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7067	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	FMHg/FTHg/OES	WHATMAN GDX STACKED	125 ml PETG	0.5% HCl-refridge	
PB17-7068	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	pH	none	15 ml PP tube	none	
PB17-7069	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	Sulfide	WHATMAN GDX STACKED	50 ml PP tube	SAOB	
PB17-7070	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	Organics/Anions/SUVA	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7071	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	NH4	WHATMAN GDX STACKED	50 ml PP tube	none	
PB17-7072	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	Nutrients	WHATMAN GDX STACKED	3 ml PP snap cap vial	freeze	
PB17-7075	P8 plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	

F-10 to all NH4 samples

STUDY AREA: Mendall W21-UM - West-A pre water 9/18/2017

SAMPLING DATE: 9/17/2017

TIME OF SAMPLING: 3:30-4:15pm 9:30 AM 3-4:30pm

TIME OF FILTRATION: 7:30-8:15pm submerge ASAP

FIELD SAMPLING DONE BY: JTB, CS, ABS Freeze 11pm Freeze in dry ice

SAMPLING METHOD: pre water sippers SAOB filtration SAOB filtration

LAB SAMPLE ID	Experiment	PLOT	Treatment	Site	ANALYTICAL GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7078	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	PMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7079	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	pH	none	15 ml PP tube	none	
PB17-7080	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7081	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7082	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7083	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7086	P8 plots 2017	W21-UM -West-A	Biochar	R3.3-Biochar	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7089	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	PMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7090	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	pH	none	15 ml PP tube	none	
PB17-7091	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7092	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7093	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7094	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7097	P8 plots 2017	W21-UM -West-A	Control	R3.2-Control	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7100	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	PMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7101	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	pH	none	15 ml PP tube	none	
PB17-7102	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7103	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7104	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7105	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7108	P8 plots 2017	W21-UM -West-A	Sediment	R3.4-Sediment	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	

Freeze NH4 samples

STUDY AREA: *Mendall* W21-UM-Central-B *mini-core*

SAMPLING DATE: *9/17/2017*

TIME OF SAMPLING: *4:15 - 5:30 pm* TIME OF PRESERVATION: *9:30 a.m.*

TIME OF FILTRATION: *8:00 - 8:45 pm* *1600-2011 pm*

FIELD SAMPLING DONE BY: *STB, ABS, CCG*

SAMPLING METHOD: *pro water-siphon* *SAOB filtration* *frozen in dry ice in field*

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7111	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	FMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7112	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	pH	none	15 ml PP tube	none	
PB17-7113	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7114	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7115	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7116	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7119	PB plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7122	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	FMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7123	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	pH	none	15 ml PP tube	none	
PB17-7124	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7125	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7126	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7127	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7130	PB plots 2017	W21-UM-Central-B	Control	R1.3-Control	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7133	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	FMethg/THg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7134	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	pH	none	15 ml PP tube	none	
PB17-7135	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7136	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7137	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7138	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7141	PB plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	

*cell mini - no 0-3m depth*

*Frozen NH4 Samples*

STUDY AREA: <u>Mudball</u>		W21-UM-Central-B	
SAMPLING DATE:	<u>9/17/2017</u>	TIME OF PRESERVATION:	<u>pre water</u>
TIME OF SAMPLING:	<u>4:15 - 5:30 pm</u>	TIME OF FILTRATION:	<u>9:20 acid</u>
FIELD SAMPLING DONE BY:	<u>JTB, CG, ABS</u>	SAMPLING METHOD:	<u>pre water</u>
	<u>8:00 - 8:45 pm</u>		<u>9/18/2017</u>
	<u>pre water sippers</u>		<u>1-2:30p</u>
	<u>5000 filtration</u>		<u>pre water</u>
			<u>in field</u>

only 50-60% and  
it's good, not even worse

Frozen 154g Samples

pre water mini-Cus

STUDY AREA: Mendall W21-UM-Central-B

SAMPLING DATE: 9/17/2017 9/18/2017

TIME OF SAMPLING: 4:15-5:30pm 9:30 a.m.

TIME OF FILTRATION: 8:00-8:45pm 1-2:30pm

FIELD SAMPLING DONE BY: DTB, CGS, ABS 1-2:30pm

SAMPLING METHOD: pre water sippers 500-600 filtration

LAB SAMPLE ID	Experiment	PLOT	Treatment	Site	ANALYTICAL GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7177	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	FMethg/FTHg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7178	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	pH	none	15 ml PP tube	none	
PB17-7179	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7180	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7181	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7182	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7185	P8 plots 2017	W21-UM-Central-B	Biochar	R3.3-Biochar	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7188	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	FMethg/FTHg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7189	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	pH	none	15 ml PP tube	none	
PB17-7190	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7191	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7192	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7193	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7195	P8 plots 2017	W21-UM-Central-B	Control	R3.2-Control	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	
PB17-7199	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	FMethg/FTHg/OES	WHATMAN GDx STACKED	125 ml PETG	0.5% HCl-refrig	
PB17-7200	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	pH	none	15 ml PP tube	none	
PB17-7201	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	Sulfide	WHATMAN GDx STACKED	50 ml PP tube	SAOB	
PB17-7202	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	Organics/Anions/SUVA	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7203	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	NH4	WHATMAN GDx STACKED	50 ml PP tube	none	
PB17-7204	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	Nutrients	WHATMAN GDx STACKED	3 ml PP snap cap vial	freeze	
PB17-7207	P8 plots 2017	W21-UM-Central-B	Sediment	R3.4-Sediment	Bulk density/Hg-solid/Methg-solid/OES	none	ziplock	freeze	

Pre 1000 NH4 Samples

STUDY AREA: *Mendall* W21-UM -West-A  
 SAMPLING DATE: *9/19/2017*  
 TIME OF SAMPLING: *7:45 - 10:30 am* TIME OF PRESERVATION: *in frozen by 11:30 am*  
 FIELD SAMPLING DONE BY: *STB, ABS*  
 SAMPLING METHOD: *4.8 cm cores, hand-coring*

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL_GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7210	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	0-1cm
PB17-7211	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	1-2
PB17-7212	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	2-3
PB17-7213	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	3-4
PB17-7214	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	4-5
PB17-7215	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	5-6
PB17-7216	P8 plots 2017	W21-UM -West-A	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	6-7
PB17-7217	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7218	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7219	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7220	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7221	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7222	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7223	P8 plots 2017	W21-UM -West-A	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7224	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7225	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7226	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7227	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7228	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7229	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7230	P8 plots 2017	W21-UM -West-A	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	

All cores cut in 1cm intervals to 7cm.

STUDY AREA: *Mondak* W21-UM - West-A

SAMPLING DATE: *9/19/2017*

TIME OF SAMPLING: *7:45 - 10:30 am* TIME OF PRESERVATION: *in frozen by 11:30 am*

FIELD SAMPLING DONE BY: *DTB, ABS*

SAMPLING METHOD: *4.8cm can taken by hand*

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL_GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
PB17-7231	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7232	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7233	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7234	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7235	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7236	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7237	PB plots 2017	W21-UM - West-A	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7238	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7239	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7240	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7241	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7242	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7243	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7244	PB plots 2017	W21-UM - West-A	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7245	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7246	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7247	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7248	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7249	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7250	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
PB17-7251	PB plots 2017	W21-UM - West-A	Sediment	R2.1-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	

## MICROBIAL ECOLOGY LAB

**SAMPLING DATE:**

STUDY AREA:	W21-UM - West-A
SAMPLING DATE:	9/19/2017
TIME OF SAMPLING:	7:45 - 10:30 am
FIELD SAMPLING DONE BY:	JTB, ABS
SAMPLING METHOD:	4.8 cm core by hand
TIME OF PRESERVATION:	in freezer by 11:30

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SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER  
MICROBIAL ECOLOGY LAB

PENOBSCOT RIVER MERCURY PROJECT

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STUDY AREA: *Mendall* W21-UM-Central-B  
 SAMPLING DATE: *9/19/2017*  
 TIME OF SAMPLING: *1-3:15pm* TIME OF PRESERVATION: *in freezer by 4:30pm*  
 FIELD SAMPLING DONE BY: *DTB, ABS*  
 SAMPLING METHOD: *4.8 cm core by hand*

LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL_GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
P817-7273	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7274	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7275	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7276	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7277	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7278	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7279	P8 plots 2017	W21-UM-Central-B	Biochar	R1.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7280	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7281	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7282	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7283	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7284	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7285	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7286	P8 plots 2017	W21-UM-Central-B	Control	R1.3-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7287	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7288	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7289	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7290	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7291	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7292	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7293	P8 plots 2017	W21-UM-Central-B	Sediment	R1.5-Sediment	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	

SAMPLING DATE: 9/19/78

SAMPLING DATE:

TIME OF SAMPLING: 1-3215 am

**TIME OF PRESERVATION:**

TIME OF PRESERVATION: In her 70s by 9:50pm

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LAB_SAMPLE_ID	Experiment	PLOT	Treatment	Site	ANALYTICAL_GROUP	Filter	CONTAINER TYPE	PRESERVATION	COMMENTS
P817-7294	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7295	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7296	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7297	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7298	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7299	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7300	P8 plots 2017	W21-UM-Central-B	Biochar	R2.2-Biochar	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7301	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7302	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7303	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7304	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7305	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7306	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7307	P8 plots 2017	W21-UM-Central-B	Control	R2.4-Control	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7308	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7309	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7310	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7311	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7312	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7313	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	
P817-7314	P8 plots 2017	W21-UM-Central-B	Sedimite	R2.1-Sedimite	bulk density, porosity, LOI, black carbon	none	ziplock	freeze	

## MICROBIAL ECOLOGY LAB

418716115

**SAMPLING DATE:**

**TIME OF SAMPLING:**

7-5:15 pm

**TIME OF PRESERVATION:**

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