

APPENDIX D

EMNR CORE SAMPLING CQA REPORT

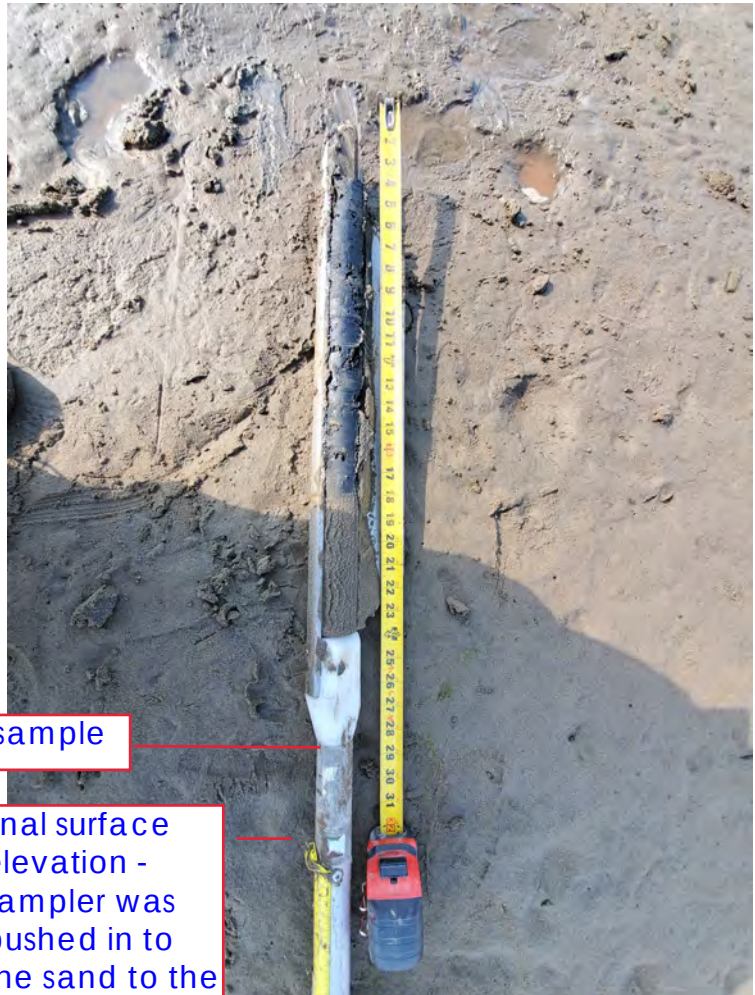


CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Page 1 of 2

Daily Report Number:	AMCCO-090420-GRK			 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971-544-2139		
Date:	9/4/2020					
Weather:	AM:	Overcast				
	PM:	Sunny				
Temperature:	Min:	54 °F				
	Max:	68 °F				
24hr Precipitation:	None			Dust Conditions:	Light	
Completed by:	Garrick Kalmeta, EIT			Number of Contractor Employees		
Contractor:				Supervisory	Operators	Laborers
				0	0	0
Work Performed Today						
Location	Sub Location	Description of Work	Time Started	Time Ended		
Lewis and Clark	EMNR Sand Layer Placement Area	EMNR Core Sampling	10:00	11:30		
CQA Officers on site: GRK						
Additional Remarks:						
CQA officer and Construction Team Manager (and the site owner) performed EMNR Core sampling after completion of Hot Spot 7 and 8 excavation/backfill. A russian pete bore sampler was used at depths of up to 2' to obtain visual EMNR sand/sediment profile data at 11 points within the EMNR sand placement area (see photo log and figure). The average sand placement depth over the sampling points resulted in an average sand layer thickness of approximately 12.5", with the minimum collected sand thickness being 10" and the maximum collected sand thickness being 15". Both the CQA officer and the site owner made an attempt to collect deeper samples at the dredged and backfilled areas, but the recently installed clean sand layer was too thick for the sampling instruments available on site. CQA Team and DEQ discussed this attempt during a weekly progress meeting, and have agreed to revisit the dredge area sand/sediment profile sampling in the upcoming weeks. All EMNR Core sampling work was conducted in the dry at low tide conditions.						
Visual Turbidity Monitoring						
Calibration Record		Technician	GRK	Time		
Time	Water Depth @ Station (ft)		Turbidity (NTU)		Delta NTU (Down-Up)	Direction
	Upcurrent	Downcurrent	Upcurrent	Downcurrent		
Start						
+2 Hours						
+4 Hours						
+6 Hours						
+8 Hours						
+10 Hours						
Comments						
No in-water work occurred today						
Inspections and Tests						
Inspection/Test Type				Location		Form No.
Additional Remarks:						
Daily Report Number:	AMCCO-090420-GRK					
Date:	9/4/2020	Completed by:	Garrick Kalmeta, EIT			
Subcontractors Onsite						
Company Name:		Work Area				Employees

Additional Remarks:				
Visitors				
Time	Name(s)	Agency/Company	Remarks	
Additional Remarks:				
Verbal Communications with Contractor				
Time	Name(s)		Remarks	Action Item?
Additional Remarks:				
Daily Report Number:		AMCCO-090420-GRK		
Date:		9/4/2020	Completed by:	Garrick Kalmeta, EIT
Equipment Onsite				
Contractor	Equipment	Quantity	Used Today?	Hours Used
Construction Issues Tracking				
Location	Description	Resolution	Action Item?	
Additional Remarks:				
CQA Officer Signature		Date	Project Manager Review	
<i>GRK</i>		9/4/2020	Cem Gokcora	9/8/2020



top of sample

final surface
elevation -
sampler was
pushed in to
the sand to the
yellow tape on
the side of the
driving bar

1: Photo showing a sand thickness of 14".



EMNR Sample 1: A look at the EMNR sand layer horizon.



EMNR Sample 2: A look at the 2nd sample location.



EMNR Sample 2: Photo showing a sand layer thickness of 11".



EMNR Sample 2: A look at the EMNR layer horizon.



EMNR Sample 3: A look at the 3rd sample location.



EMNR Sample 3: Photo showing a sand layer thickness of 10".



EMNR Sample 3: A look at the EMNR layer horizon.



EMNR Sample 4: A look at the 4th sample location.



EMNR Sample 4: Photo showing a sand layer thickness of 12".



EMNR Sample 4: A look at the EMNR layer horizon.



EMNR Sample 5: A look at the 5th sample location.



EMNR Sample 5: Photo showing a sand layer thickness of 14".



EMNR Sample 5: A look at the EMNR layer horizon.



EMNR Sample 6: A look at the 6th sample location.



EMNR Sample 6: Photo showing a sand layer thickness of 12.5".



EMNR Sample 6: A look at the EMNR layer horizon.



EMNR Sample 7: A look at the 7th sample location.



EMNR Sample 7: Photo showing a sand layer thickness of 10".



EMNR Sample 7: A look at the EMNR layer horizon.



EMNR Sample 8: A look at the 8th sample location.



EMNR Sample 8: Photo showing a sand layer depth of 15".



EMNR Sample 8: A look at the EMNR layer horizon.



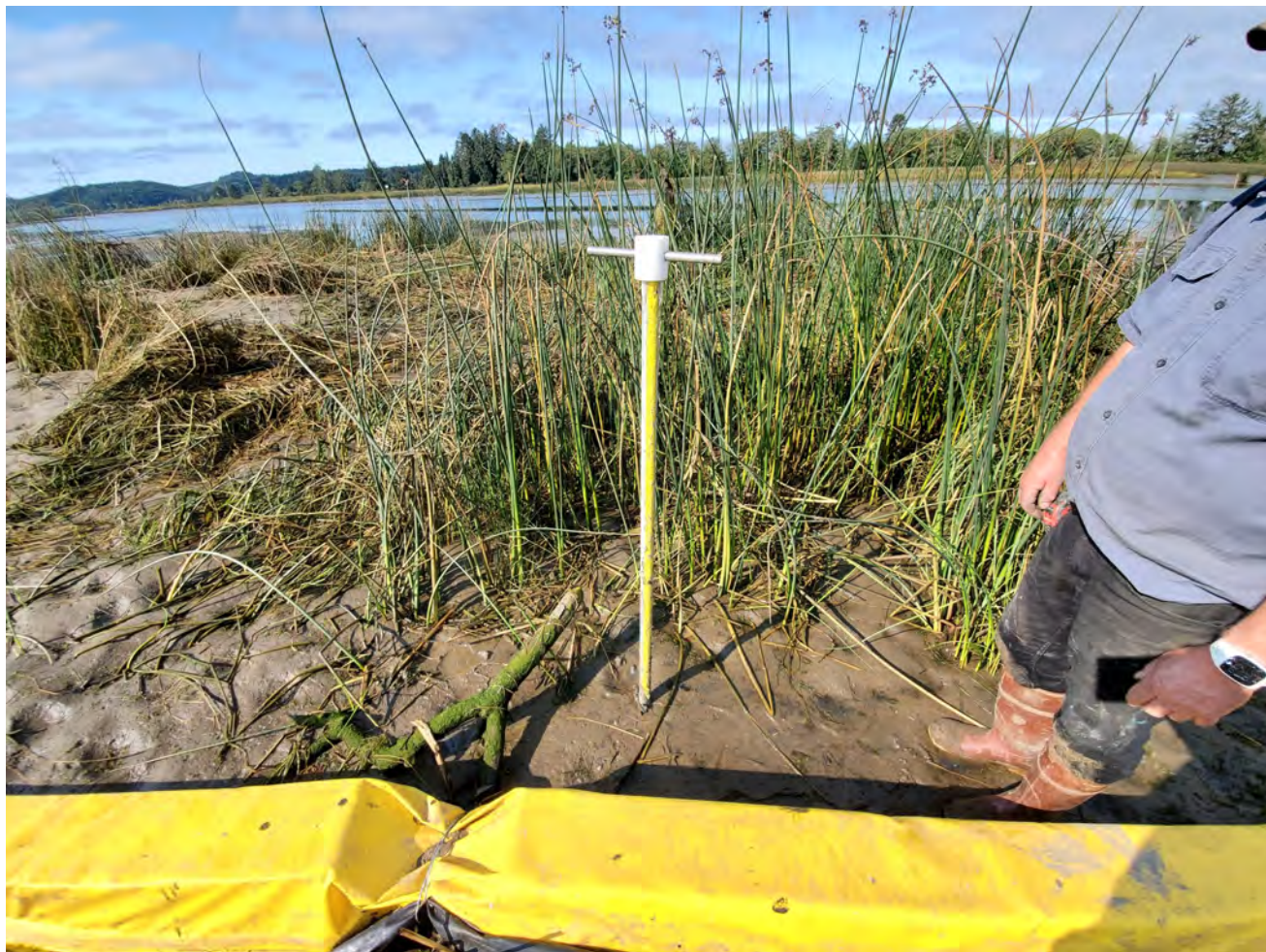
EMNR Sample 9: A look at the 9th sample location.



EMNR Sample 9: Photo showing an EMNR layer depth of 10".



EMNR Sample 9: A closer look at the EMNR layer horizon.



EMNR Sample 10: A look at the 10th sample location.



EMNR Sample 10: Photo showing a sand layer depth of 14".



EMNR Sample 10: A closer look at the EMNR layer horizon.



EMNR Sample 11: A look at the 11th sample location.



EMNR Sample 10: Photo showing a sand layer depth of 13".



EMNR Sample 11: A closer look at the EMNR layer horizon.

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Page 1 of 15

Daily Report Number:	AMCCO-081121-GRK		 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971-544-2139	
Date:	8/11/2021			
Weather:	AM:	Sunny		
	PM:	Sunny		
Temperature:	Min:	64 °F		
	Max:	84 °F		
24hr Precipitation:	None		Dust Conditions:	Light
Completed by:	Garrick Kalmata, EIT		Number of Contractor Employees	
Contractor:	N/A	Supervisory	Operators	Laborers
		0	1	0
Work Performed Today				
Location	Sub Location	Description of Work	Time Started	Time Ended
Lewis and Clark	EMNR Sand Layer Placement Area	EMNR Core Sampling	8:45	11:30
Upland	Stormwater Pond	Pond Excavation	8:00	17:00
CQA Officers on site: GRK				
Additional Remarks:				
CQA officer and the project manager (Cem Gokcora) performed EMNR Core sampling upon arrival at the site. A russian pete bore sampler was used at depths of up to 2' to obtain visual EMNR sand/sediment profile data at 12 sampling points (SPs) within the EMNR sand placement area (see photo log and figure). A handheld GPS instrument was used to locate previously identified sampling locations. The average sand placement depth over the SPs resulted in an average sand layer thickness of approximately 12.5", with the minimum collected sand thickness being 7" and the maximum collected sand thickness being 24" (at the north dredge overlap area). All EMNR Core sampling work was conducted in the dry at low tide conditions. MFA also observed a portion of the stormwater pond excavation. The Contractor had excavated down to three feet from existing surface on the south end of the pond. The excavated material was being transported to the south yard to be blended as south yard subgrade. Two large previously buried trees had been removed from the pond area. The Contractor will continue to excavate down to six feet from existing surface to get to the target pond bottom subgrade elevation.				
Inspections and Tests				
Inspection/Test Type	Location		Form No.	
Additional Remarks:				

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

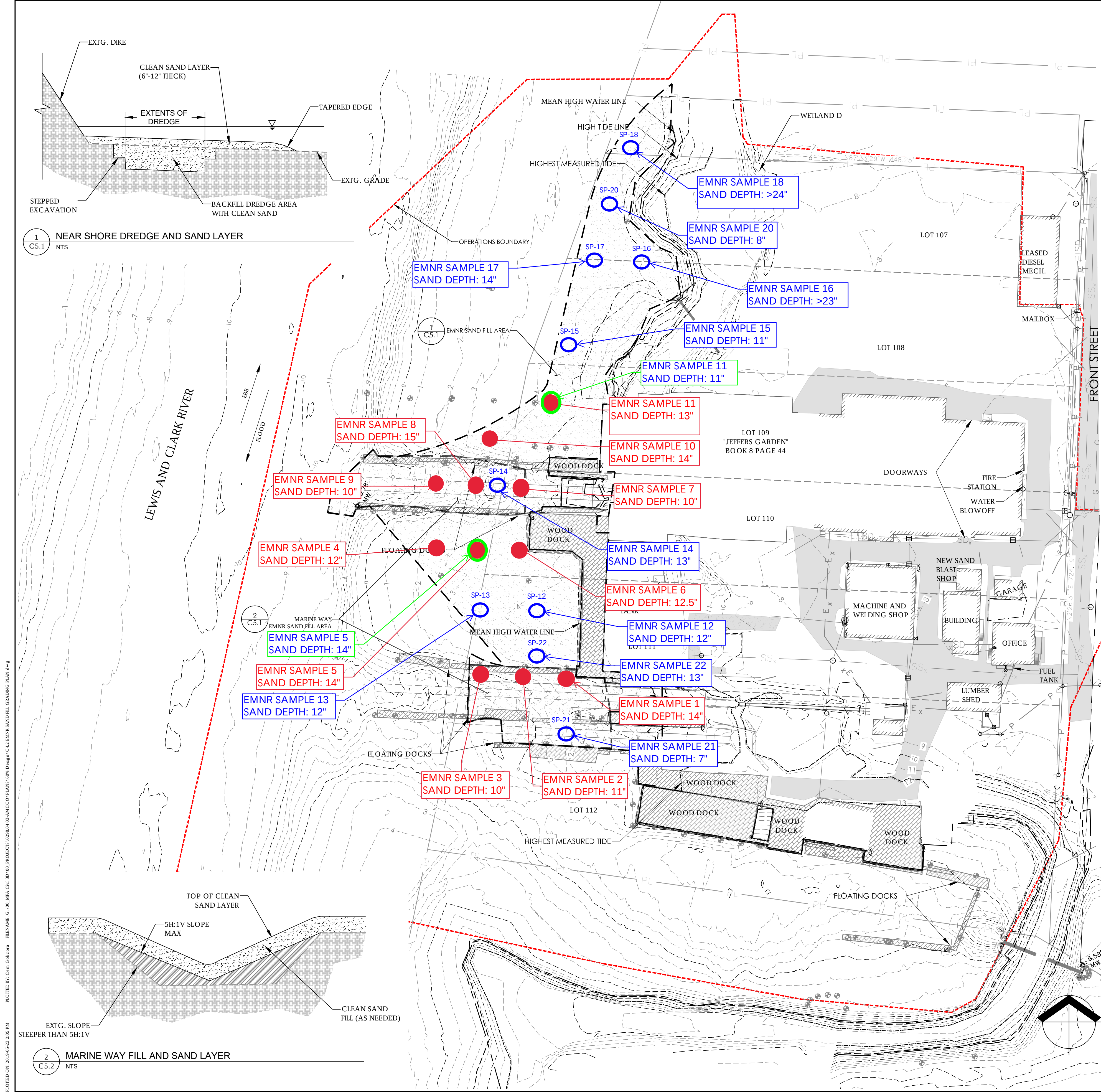
Page 2 of 15

Daily Report Number:	AMCCO-081121-GRK			
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT	
Subcontractors Onsite				
Company Name:		Work Area	Employees	
Additional Remarks:				
Visitors				
Time	Name(s)	Agency/Company	Remarks	
9:30	Erin McDonnell	DEQ	Visited site for general progress and observe EMNR core sampling	
Additional Remarks:				
Verbal Communications with Contractor				
Time	Name(s)		Remarks	Action Item?
Additional Remarks:				

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Daily Report Number:	AMCCO-081121-GRK			
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT	
Equipment Onsite				
Contractor	Equipment	Quantity	Used Today?	Hours Used
Customs Excavating	Excavator	1	Yes	8
Construction Issues Tracking				
Location	Description	Resolution		Action Item?
Attachments: - Sampling Locations Map - Photo Log				
CQA Officer Signature		Date	Project Manager Review	
<i>GRK</i>		8/17/2021	Cem Gokcora	8/18/2021

DESIGNED BY: C. GOKCORA
DRAWN BY: Z. PYLE
CHECKED BY: E. BAKKOM
SCALE
0 50' 100'
NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.
SHEET TITLE
EMNR SAND PLACEMENT
SHEET
C4.2



REMEDATION PLAN LEGEND

DOCK PILING

EXISTING ASPHALT

EXISTING DOCK

EXISTING GRAVEL SURFACE

EMNR SAND FILL

EXISTING MINOR CONTOUR

EXISTING MAJOR CONTOUR

LOT LINE

MEAN HIGH WATER LINE

HIGH TIDE LINE

HIGHEST MEASURED TIDE

2020 CORE SAMPLING POINT

2021 CORE SAMPLING POINT

REPEAT (2020 AND 2021) CORE SAMPLING POINT

EMNR SAND FILL NOTES

SEQUENCING

- SEDIMENT EXCAVATION AND BACKFILL IN THE LEWIS AND CLARK RIVER WORK AREA SHALL BE COMPLETE PRIOR TO PLACEMENT OF THE EMNR MATERIALS.
- EMNR SAND SHOULD GENERALLY BE PLACED FROM UPSTREAM TO DOWNSTREAM.
- EMNR SAND SHOULD BE PLACED STARTING AT THE GREATEST DEPTH IN THE PLACEMENT AREA, MOVING TO THE SHALLOWEST LOCATION.

CONSTRUCTION NOTES

- EMNR SAND IS REQUIRED TO BE PLACED IN AREAS OF THE LEWIS AND CLARK RIVER WHERE VEGETATION MAY OR MAY NOT EXIST. EMNR SAND SHOULD BE PLACED USING A METHOD THAT WILL GRADUALLY SPREAD THE SAND OVER AN AREA WITHOUT SIGNIFICANT DAMAGE TO VEGETATION THAT MAY REMAIN IN PLACE. THE ENGINEER ANTICIPATES THESE METHODS TO UTILIZE AN AERIAL BROADCASTING APPROACH, SUCH AS TELEBELT CONVEYOR, THIN LAYER CLAMSHELL SPREAD, SLURRY SPRAY.
- SAND SHOULD BE PLACED BY MECHANICAL MEANS - UNLESS HYDRAULIC PLACEMENT METHODS ARE DEMONSTRATED TO NOT DISPLACE OR SUSPEND THE EXISTING SEDIMENT BED.
- PROVIDE CLEAN EQUIPMENT FOR THE PLACEMENT AND TRANSPORT OF ALL EMNR MATERIALS.
- PRIOR TO EMNR SAND PLACEMENT ACTIVITIES, OBTAIN VERIFICATION FROM ENGINEER THAT DREDGING IN AN AREA IS COMPLETE.
- DEMONSTRATE THE PROPOSED EMNR PLACEMENT METHOD IN A PILOT TEST, WITH EVIDENCE PROVIDED TO THE ENGINEER CONSISTING OF RAIN BUCKETS OR SEDIMENT CORES (CLAM GUN), OR OTHER APPROVED METHOD. CORRECTIONS TO APPLICATION METHODOLOGY SHALL BE MADE AND VERIFIED PRIOR TO GOING FULL SCALE.
- ESTIMATE THE VOLUME OR TONNAGE OF SAND MATERIAL REQUIRED TO BE PLACED IN EACH GRID APPROVAL UNIT AREA TO SATISFY THE DESIGN REQUIREMENT. CONTRACTOR SHALL MONITOR THE PLACEMENT OF EMNR SAND QUANTITY TO DEMONSTRATE THAT THE REQUIRED THICKNESS OF SAND HAS BEEN PLACED.
- PRIOR TO START OF CONSTRUCTION, THE ENGINEER AND CONTRACTOR SHALL AGREE ON A MEANS OF DEMONSTRATING SUCCESSFUL PLACEMENT TO THE THICKNESS AND LIMITS DESCRIBED IN THE DRAWINGS FOR PURPOSES OF CERTIFYING COMPLETION FOR DEQ. THESE MEANS MAY INCLUDE A COMBINATION OF THE FOLLOWING: DOCUMENTATION OF TONNAGE/VOLUME OF EMNR DELIVERED TO THE SITE, ENGINEER OBSERVATION OF PLACEMENT, PHYSICAL MEASUREMENT (SEDIMENT CORES/RAIN BUCKETS), AND/OR BATHYMETRY.
- THE MATERIAL SHALL BE PLACED EVENLY AND METHODICALLY IN ORDER TO ACHIEVE THE SAND THICKNESS SPECIFIED BELOW:
 - THE DESIRED EMNR SAND LAYER IN VEGETATED AREAS IS 6 TO 8 INCHES.
 - THE DESIRED EMNR SAND LAYER IN NON-VEGETATED AREAS IS 6 TO 12 INCHES.
- PLACEMENT OF THE EMNR SAND MATERIAL SHALL BE CONDUCTED IN A CONTROLLED AND ACCURATE MANNER IN SUCH A WAY AS TO CONTROL TURBIDITY TO THE REQUIRED LEVELS SPECIFIED IN THE WATER QUALITY PLAN.
- EMNR SAND SHOULD BE PLACED STARTING AT THE GREATEST DEPTH IN THE PLACEMENT AREA AND MOVING TO THE SHALLOWEST LOCATION.
- SUDDEN DISCHARGES OF LARGE VOLUMES OF SAND THAT RESULT IN LARGE DISPLACEMENTS OR "BOMBING" OF THE UNDERLYING SEDIMENT OR AN EMNR SAND THICKNESS THAT EXCEEDS THE ALLOWABLE TOLERANCES SHALL BE AVOIDED.
- PROVIDE ADVANCE NOTICE TO ALLOW ENGINEER'S PERSONNEL TO OBSERVE EMNR PLACEMENT ACTIVITIES FOR THE PURPOSES OF PLACEMENT VERIFICATION.

MATERIALS (AND EQUIPMENT)

- EMNR SAND
 - THE MATERIAL TO BE USED FOR CONSTRUCTION OF THE EMNR LAYER SHALL BE AN IMPORTED, CLEAN, GRANULAR MATERIAL FREE OF ROOTS, LARGE ORGANIC MATERIAL, CONTAMINANTS, AND ALL OTHER DELETERIOUS AND OBJECTIONABLE MATERIAL.
 - THE MATERIAL SHOULD BE MAIN STEM COLUMBIA RIVER MID-CHANNEL DREDGE SPOILS SUPPLIED BY VARIOUS COMMERCIAL SOURCES.
 - COORDINATE DREDGING ACTIVITIES WITH THE USAGE IN ORDER TO COMPLY WITH THEIR FEDERAL NAVIGATION PROJECT PERMIT. ADDITIONAL PERMIT INFORMATION IS AVAILABLE AT [HTTPS://WWW.NWP.USACE.ARMY.MIL/OP/N/](https://www.nwp.usace.army.mil/op/n/).
 - GRAIN SIZE:

%	PASSING	U.S. SIEVE
100	1/2 INCH	
80-100		NO. 10
<5		NO. 200
 - PHYSICAL CHARACTERISTICS: WELL-GRADED, SUBANGULAR TO SUBROUNDED SAND.
 - SAND SHALL BE FREE FROM CHEMICAL CONTAMINANTS PER TESTING DEFINED IN THE REMEDIAL DESIGN REPORT
- EMNR SAND PLACEMENT EQUIPMENT: PROPOSE EQUIPMENT THAT HAS THE ABILITY TO MEET THE FOLLOWING CRITERIA:
 - MINIMIZATION OF THE GENERATION OF SUSPENDED SEDIMENTS DURING SAND PLACEMENT OPERATIONS.
 - CONSISTENT PLACEMENT OF MATERIAL TO THE ALIGNMENTS, GRADES, AND CROSS SECTIONS SHOWN ON THE DRAWINGS AND DETAILED IN THE SPECIFICATIONS.
 - CAPABLE OF PROCESSING NECESSARY VOLUMES OF MATERIAL TO ACHIEVE THE PROJECT DELIVERY SCHEDULE.

SUBMITTALS

- PRE-CONSTRUCTION SUBMITTALS:
 - SUMMARY OF EQUIPMENT OPERATORS' EXPERIENCE SHOWING THAT THE OPERATORS HAVE A MINIMUM OF 3 YEARS OF EXPERIENCE WITH THE PROPOSED EQUIPMENT FOR EMNR SPREADING.
 - TWO WEEKS PRIOR TO DELIVERY TO THE SITE, THE CONTRACTOR SHALL CONDUCT ONE GRADATION TEST ACCORDING TO ASTM D422 FOR EMNR SAND FROM EACH SOURCE THAT IS PROPOSED FOR THE PROJECT. THE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MATERIAL DELIVERY TO THE SITE.
- A PORTION OF THE REQUIRED CONTRACTOR'S WORK PLAN SHALL OUTLINE MATERIALS, EQUIPMENT, AND METHODS TO BE USED TO PLACE EMNR SAND AND FISH MIX ROCK AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS. DESCRIPTIONS SHALL INCLUDE:
 - EQUIPMENT AND PROCEDURES TO BE USED TO PLACE MATERIALS AND DEMONSTRATE THAT THEY ARE APPROPRIATE TO DESCRIBED SCOPE OF WORK.
 - EQUIPMENT AND TEMPORARY FACILITY REQUIREMENTS AND PROCEDURES TO BE USED TO STAGE, STORE, AND TRANSPORT MATERIALS PRIOR TO PLACEMENT.
 - PROPOSED METHODS TO SYSTEMATICALLY EXECUTE THE MATERIAL PLACEMENT IN REQUIRED LIFT THICKNESSES (E.G. SWING PATTERN, BUCKET SIZE, ETC.).
 - USACE DREDGE PERMIT FOR EMNR SAND, AS APPLICABLE TO PROPOSED SOURCE.
 - THE CONTRACTOR SHALL SUBMIT ALL FILL MATERIAL SOURCE INFORMATION INCLUDING A CONTACT NAME, ADDRESS, PHONE NUMBER FOR EACH PRODUCT AND/OR SOURCE TO THE ENGINEER FOR APPROVAL.

- CONSTRUCTION SUBMITTALS:
 - PROVIDE THE ENGINEER WITH A DAILY SAND PLACEMENT PROGRESS SUMMARY IN THE DAILY FIELD REPORT.
 - PROVIDE EVIDENCE OF PLACED EMNR SAND LAYER THICKNESS FINAL (I.E. BATHYMETRY, RAIN BUCKETS, SEDIMENT CORES, OR OTHER ENGINEER APPROVED METHOD) PRIOR TO DEMOBILIZING SPREADING EQUIPMENT FROM THE SITE.

MAUL FOSTER ALONG I

2001 NW 19TH AVE. SUITE 200
PORTLAND, OR 97209
PHONE: 971.544.2139
www.maulfooster.com

AMCCO UPLAND & SEDIMENT
REMEDATION PLAN

ASTORIA MARINE CONSTRUCTION CO.
ASTORIA, OREGON

DATE	ISSUE	DESCRIPTION
06/30/2018	C	90% DESIGN DOCUMENTS
09/29/2017	B	SECTION 406 REVIEW
06/12/2017	A	60% DESIGN DOCUMENTS

PROJECT: 1653.01.01

DESIGNED: C. GOKCORA

DRAWN: Z. PYLE

CHECKED: E. BAKKOM

SCALE

0 50' 100'

NOTE: BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY.

SHEET TITLE

EMNR SAND PLACEMENT

SHEET

C4.2

PERMIT DOCUMENT

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 1: A look at the drive-in location of the russian pete bore at SP 5

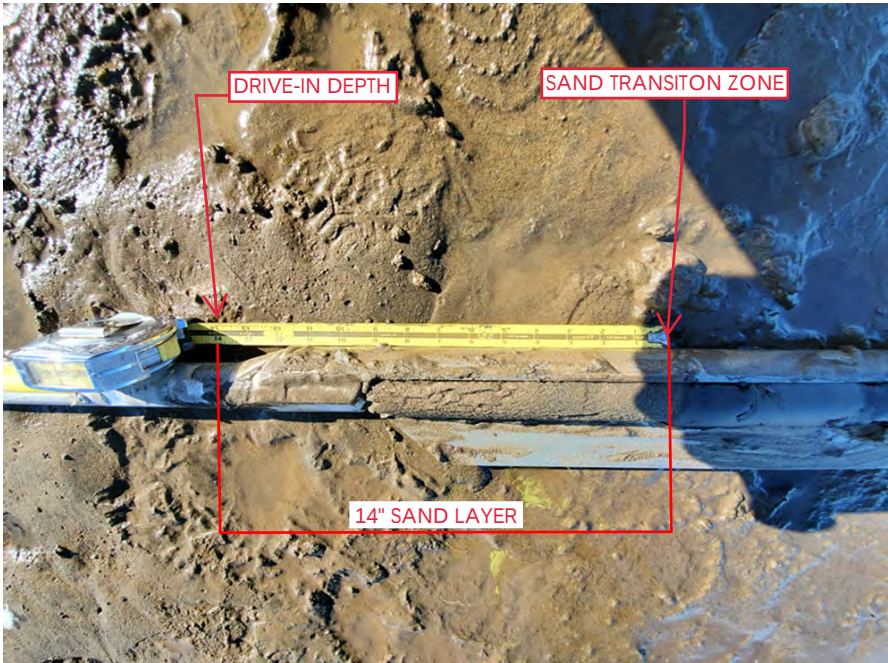


Photo 2: A look at the sampled EMNR Sand profile collected at SP 5, with a depth of approximately 14"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 3: A look at the drive-in location of the russian pete bore at SP 11

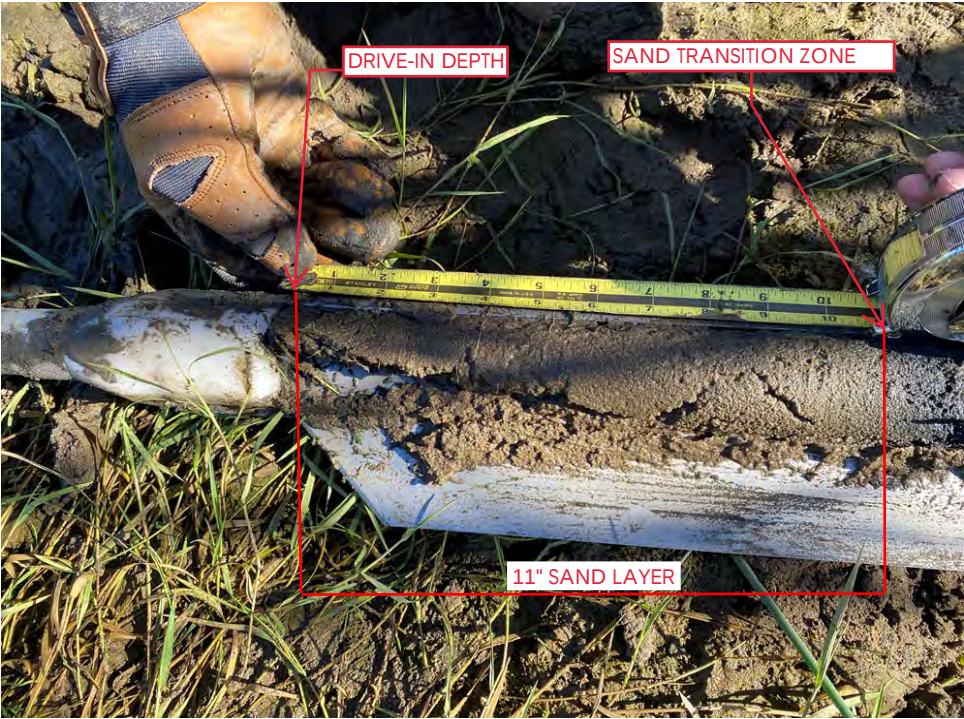


Photo 4: A look at the sampled EMNR Sand profile collected at SP 11, with a depth of approximately 11"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 5: A look at the drive-in location of the russian pete bore at SP 12

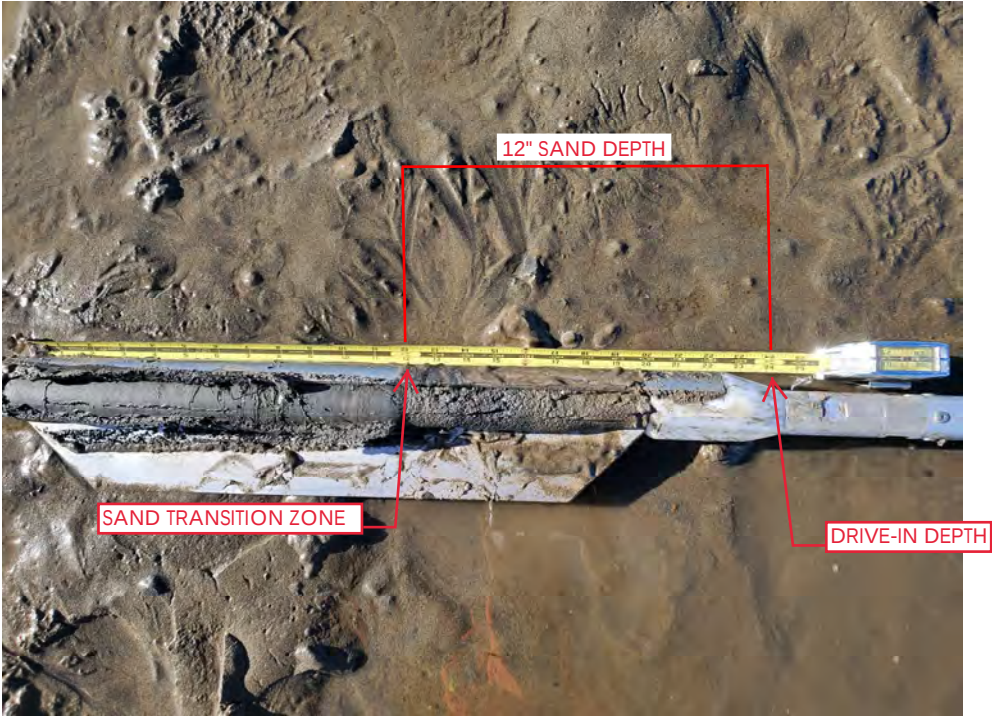


Photo 6: A look at the sampled EMNR Sand profile collected at SP 12, with a depth of approximately 12"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 7: A look at the drive-in location of the russian pete bore at SP 13

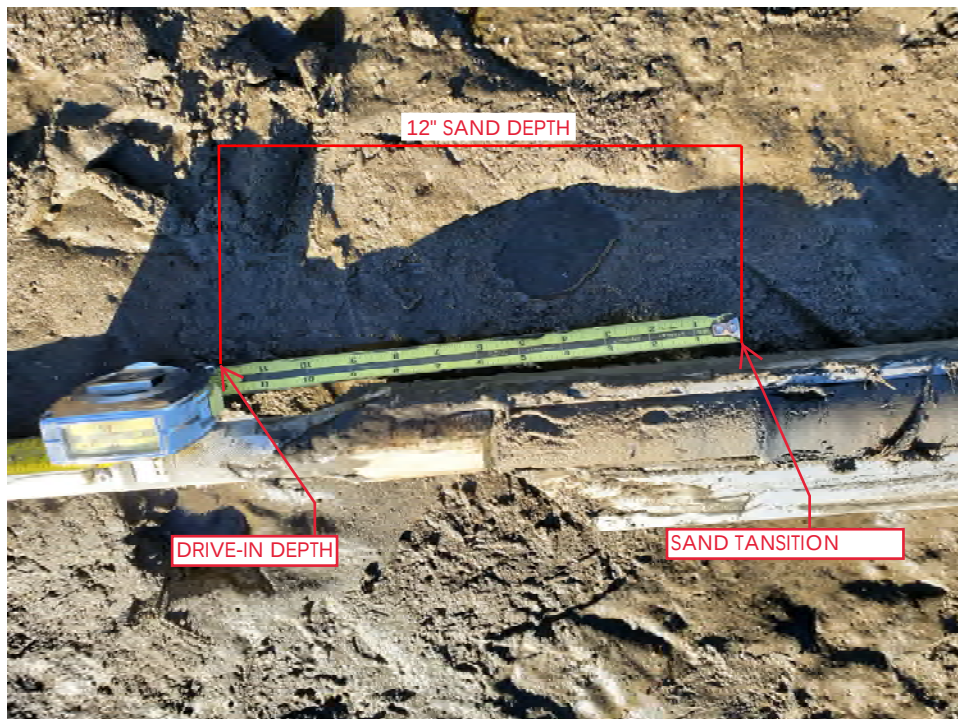


Photo 8: A look at the sampled EMNR Sand profile collected at SP 13, with a depth of approximately 12"

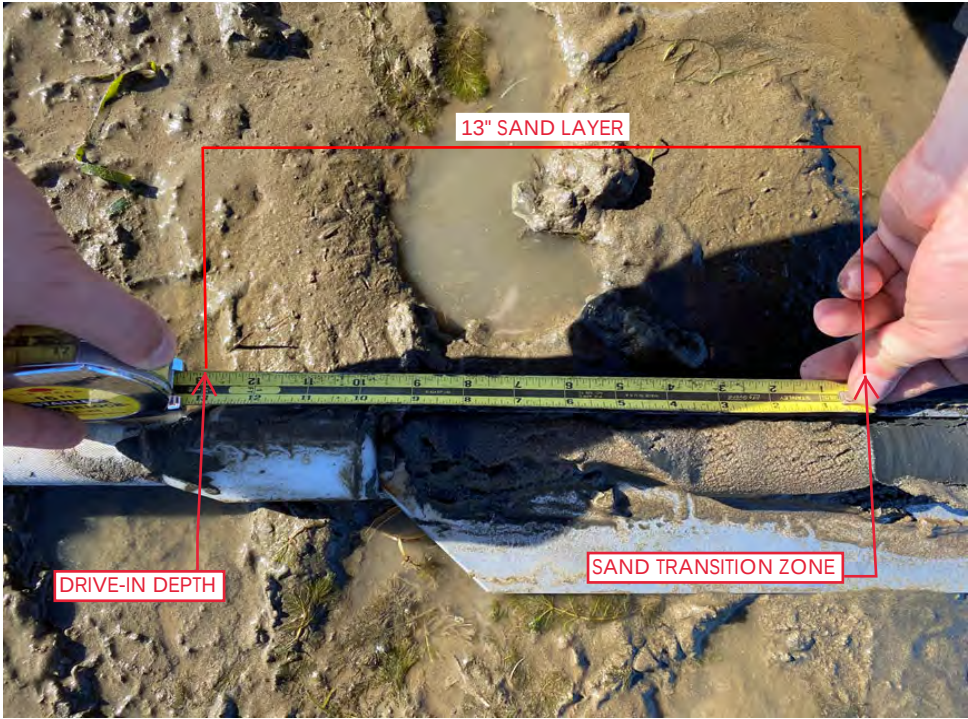
Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



DRIVE-IN DEPTH

Photo 9: A look at the drive-in location of the russian pete bore at SP 14



13" SAND LAYER

DRIVE-IN DEPTH

SAND TRANSITION ZONE

Photo 10: A look at the sampled EMNR Sand profile collected at SP 14, with a depth of approximately 13"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 11: A look at the drive-in location of the russian pete bore at SP 15

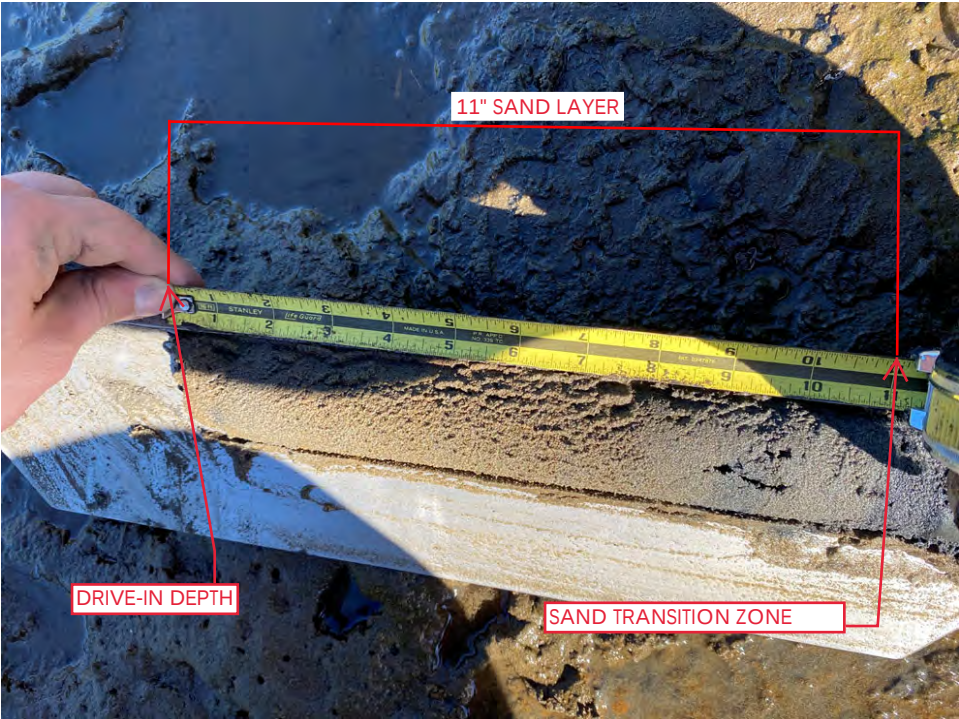


Photo 12: A look at the sampled EMNR Sand profile collected at SP 15, with a depth of approximately 11"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 13: A look at the drive-in location of the russian pete bore at SP 16

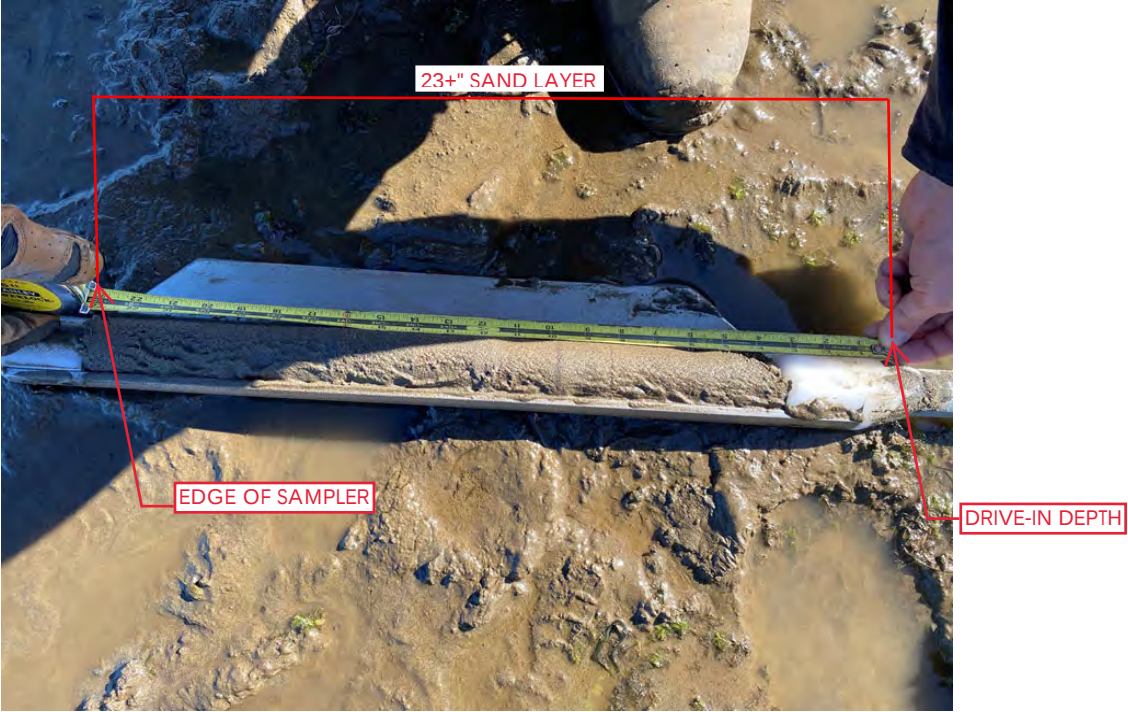


Photo 14: A look at the sampled EMNR Sand profile collected at SP 16, with a depth of over 23" (located within the transition/overlap zone near north dredge area prism)

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos

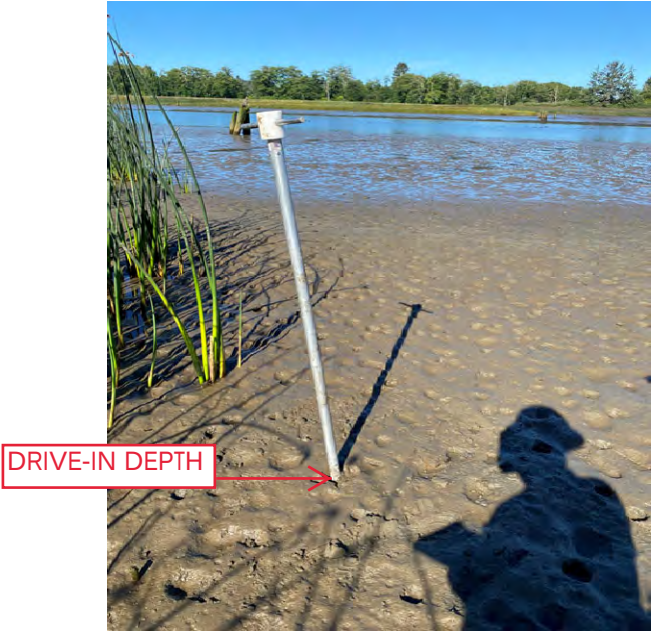


Photo 15: A look at the drive-in location of the russian pete bore at SP 17

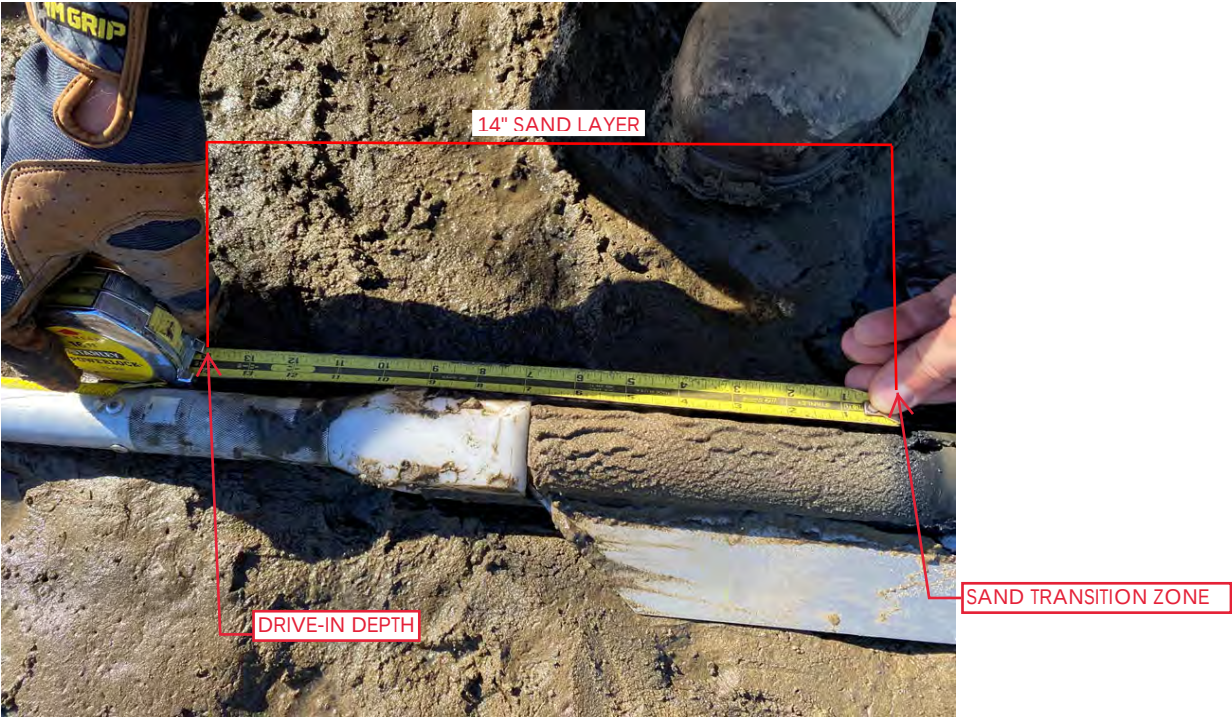


Photo 14: A look at the sampled EMNR Sand profile collected at SP 17, with a depth of approximately 14"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



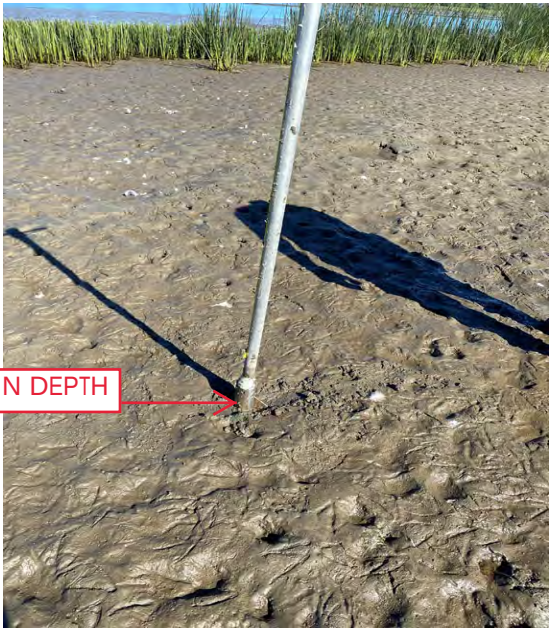
Photo 15: A look at the drive-in location of the russian pete bore at SP 18



Photo 14: A look at the sampled EMNR Sand profile collected at SP 18, with a depth of over 24" (located within the transition/overlap zone near north dredge area prism)

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



DRIVE-IN DEPTH

Photo 15: A look at the drive-in location of the russian pete bore at SP 20



8" SAND LAYER

SAND TRANSITION ZONE

DRIVE-IN DEPTH

Photo 14: A look at the sampled EMNR Sand profile collected at SP 20, with a depth of approximately 8"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 15: A look at the drive-in location of the russian pete bore at SP 21



Photo 14: A look at the sampled EMNR Sand profile collected at SP 21, with a depth of approximately 7"

Daily Report Number:	AMCCO-081121-GRK		
Date:	8/11/2021	Completed by:	Garrick Kalmeta, EIT

Photos

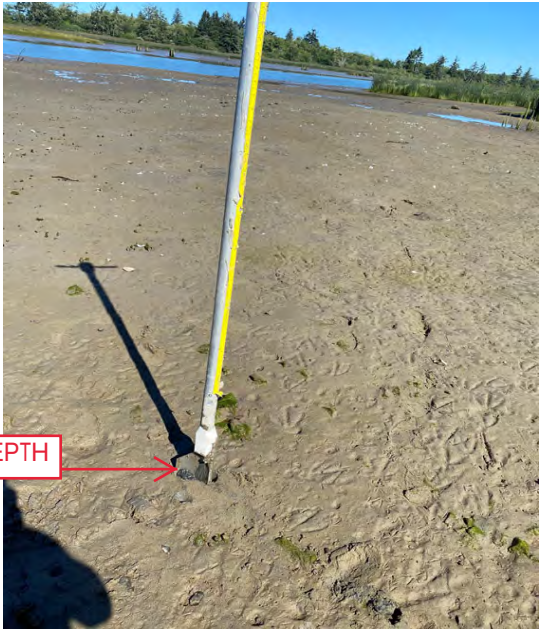


Photo 15: A look at the drive-in location of the russian pete bore at SP 22



Photo 14: A look at the sampled EMNR Sand profile collected at SP 22, with a depth of approximately 13"

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Daily Report Number:	AMCCO-080322-GRK		 MAUL FOSTER ALONGI 3140 NE Broadway Street Portland, OR 97232 971-544-2139	
Date:	8/3/2022			
Weather:	AM:	Cloudy		
	PM:	Cloudy		
Temperature:	Min:	64 °F		
	Max:	65 °F		
24hr Precipitation:	None		Dust Conditions:	Light
Completed by:	Garrick Kalmeta, EIT		Number of Contractor Employees	
Contractor:	N/A	Supervisory	Operators	Laborers
		0	0	0
Work Performed Today				
Location	Sub Location	Description of Work	Time Started	Time Ended
Lewis and Clark	EMNR Sand Layer Placement Area	EMNR Core Sampling	12:30	13:30
CQA Officers on site: GRK Additional Remarks: CQA officer performed EMNR Core sampling upon arrival at the site. A russian pete bore sampler was used at depths of up to 2' to obtain visual EMNR sand/sediment profile data at 5 sampling points (SPs) within the EMNR sand placement area (see photo log and figure). A handheld GPS instrument was used to locate previously identified sampling locations. The average sand placement depth over the SPs resulted in an average sand layer thickness of approximately 10.5", with the minimum collected sand thickness being 7" and the maximum collected sand thickness being 15" (at the north dredge overlap area). All EMNR Core sampling work was conducted in the dry at low tide conditions.				
Inspections and Tests				
Inspection/Test Type	Location		Form No.	
Additional Remarks:				

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Daily Report Number:		AMCCO-080322-GRK	
Date:		8/3/2022	Completed by: Garrick Kalmeta, EIT
Subcontractors Onsite			
Company Name:		Work Area	Employees
Additional Remarks:			
Visitors			
Time	Name(s)	Agency/Company	Remarks
Additional Remarks:			
Verbal Communications with Contractor			
Time	Name(s)	Remarks	Action Item?
Additional Remarks:			

CONSTRUCTION DAILY REPORT
AMCCO Upland and Sediment Remediation Project

Daily Report Number:	AMCCO-080322-GRK			
Date:	8/3/2022	Completed by:	Garrick Kalmeta, EIT	
Equipment Onsite				
Contractor	Equipment	Quantity	Used Today?	Hours Used
Construction Issues Tracking				
Location	Description	Resolution		Action Item?
Additional Remarks:				
CQA Officer Signature		Date	Project Manager Review	
GRK		8/5/2022		
			Cem Gokcora	

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Photos



Photo 1: A look at the GPS location for SP-2



DRIVE-IN DEPTH

Photo 2: A look at the drive-in location of the russian pete bore at SP-2

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Photos

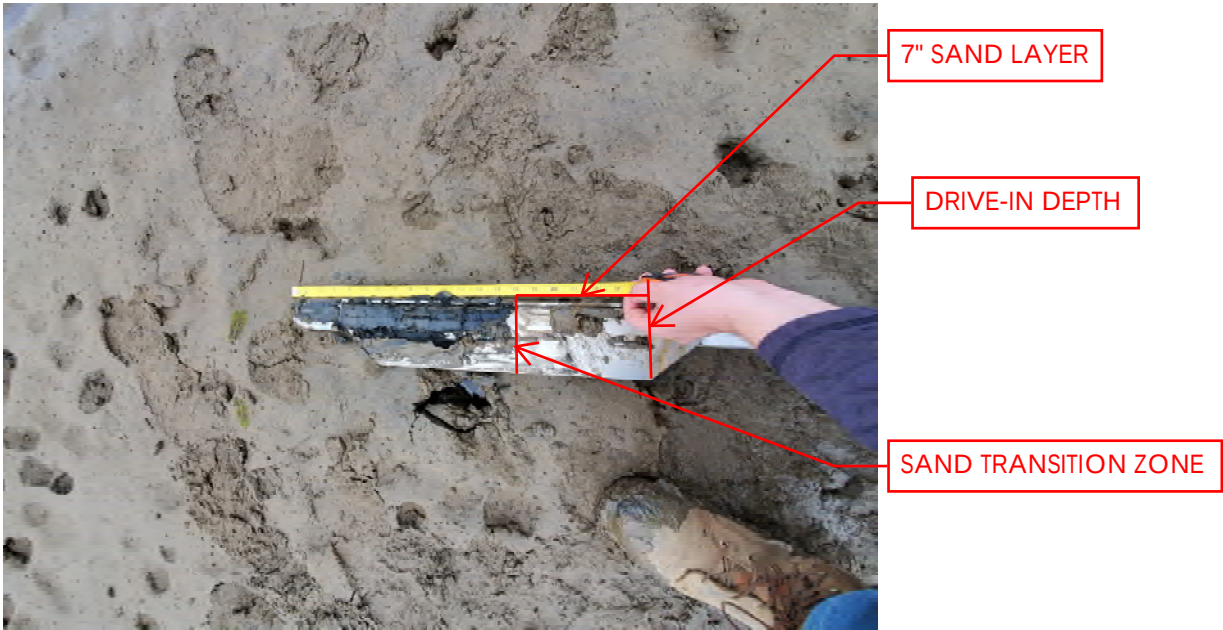


Photo 3: A look at the sampled EMNR Sand profile collected at SP-2, with a depth of approximately 7"

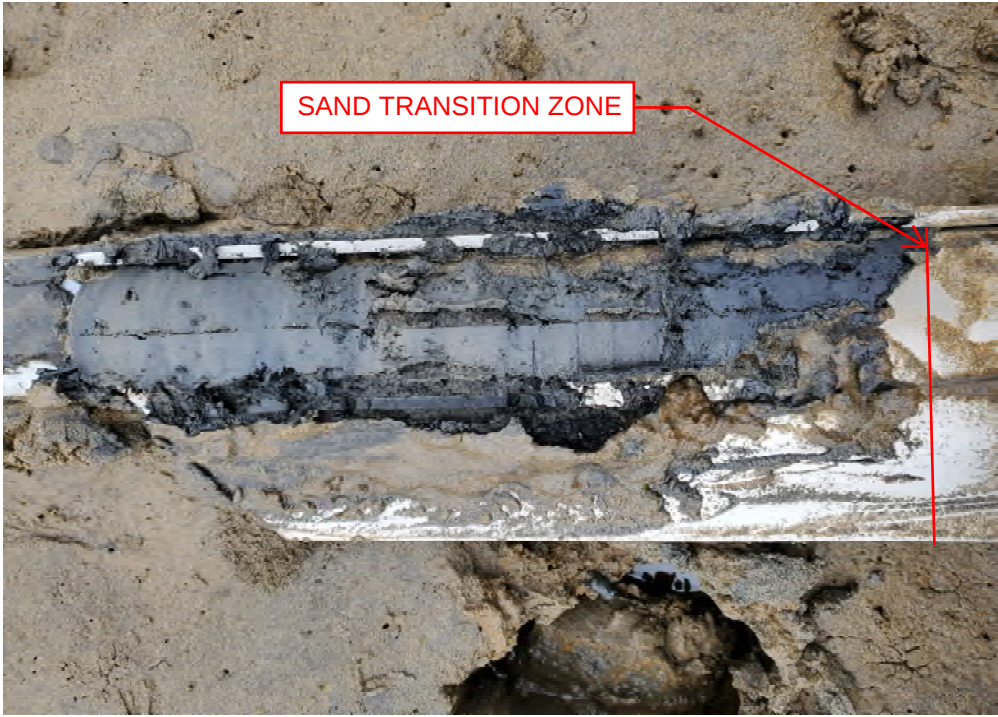


Photo 4: A look at the event horizon (transition zone between sediment and sand) for SP-2

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Photos



Photo 5: A look at the GPS location for SP-5



DRIVE-IN DEPTH

Photo 6: A look at the drive-in location of the Russian Pete bore at SP-5

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Photos

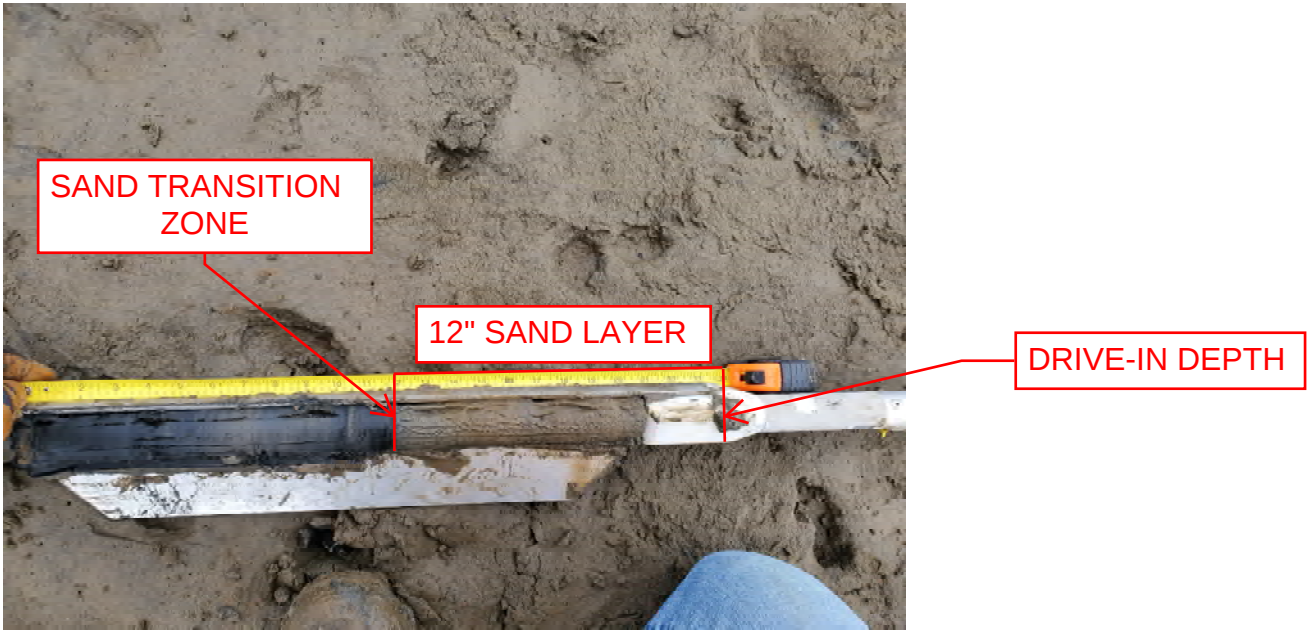


Photo 7: A look at the sampled EMNR Sand profile collected at SP-5, with a depth of approximately 12"



Photo 8: A look at the event horizon (transition zone between sediment and sand) for SP-5

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Photos



Photo 9: A look at the GPS location for SP-11



DRIVE-IN DEPTH

Photo 10: A look at the drive-in location of the russian pete bore at SP-11

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Photos

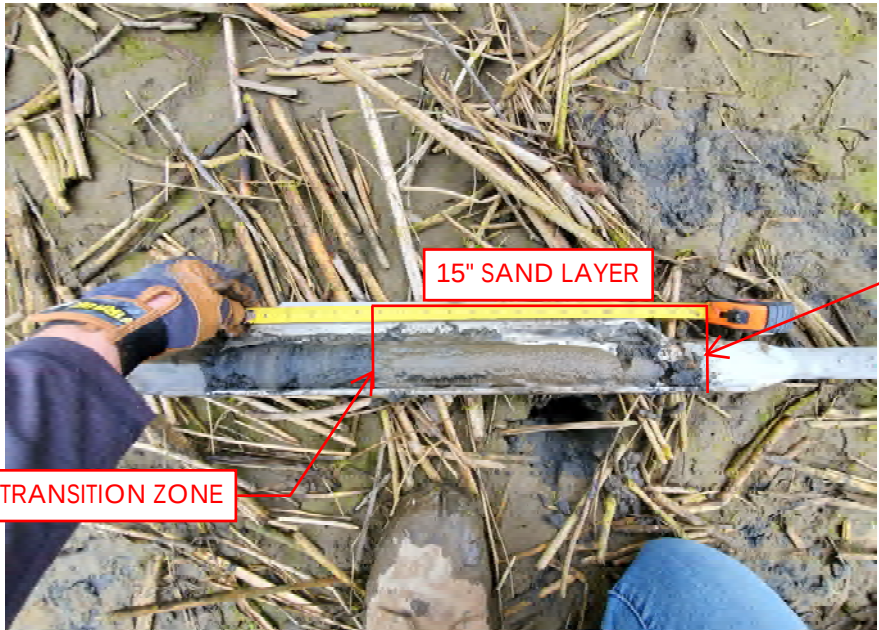


Photo 11: A look at the sampled EMNR Sand profile collected at SP-11, with a depth of approximately 15"



Photo 12: A look at the event horizon (transition zone between sediment and sand) for SP-11

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Photos



Photo 13: A look at the GPS location for SP-12



Photo 14: A look at the drive-in location of the russian pete bore at SP-12

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Date:	8/3/2022	Completed by:	Garrick Kalmeta, EIT

Photos

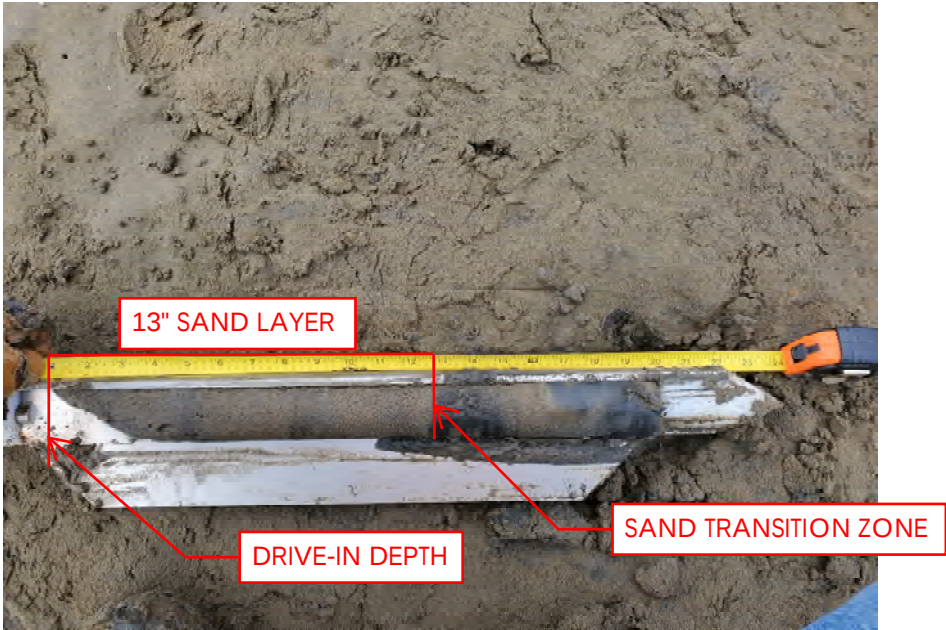


Photo 15: A look at the sampled EMNR Sand profile collected at SP-12, with a depth of approximately 13"



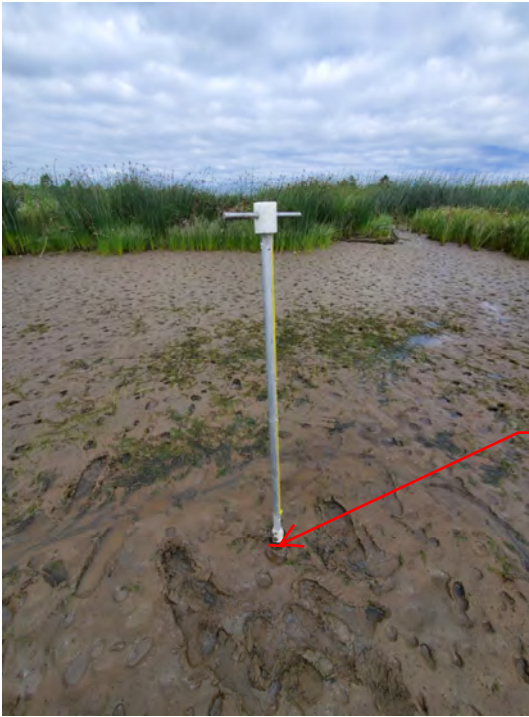
Photo 16: A look at the event horizon (transition zone between sediment and sand) for SP-12

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Date:	8/3/2022	Completed by:	Garrick Kalmeta, EIT

Photos



Photo 17: A look at the GPS location for SP-14



DRIVE-IN DEPTH

Photo 18: A look at the drive-in location of the russian pete bore at SP-14

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Photos

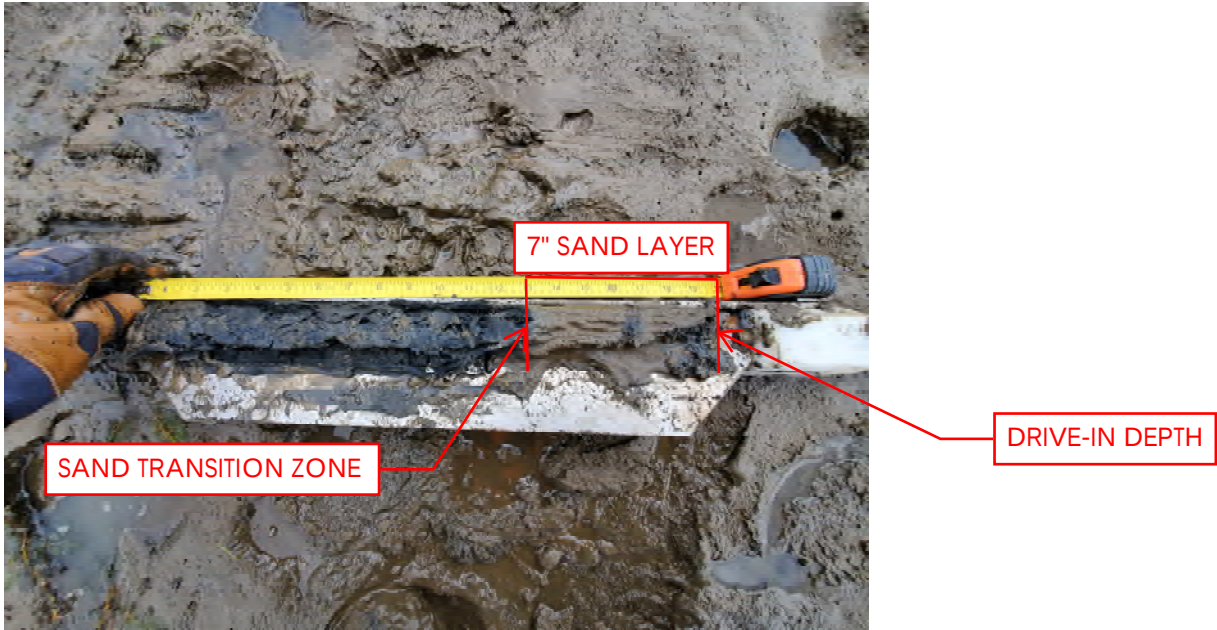


Photo 19: A look at the sampled EMNR Sand profile collected at SP-14, with a depth of approximately 7"



Photo 20: A look at the event horizon (transition zone between sediment and sand) for SP-14