New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign – Seafloor and Sample Photographs and Sediment Data

Citation:

The data presented here is freely available. However, please cite the following reference when using: Ward, L.G., Morrison, R.C., and McAvoy, Z.S., 2021, New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign – Seafloor and Sample Photographs and Sediment Data. University of New Hampshire Center for Coastal and Ocean Mapping/Joint Hydrographic Center (CCOM/JHC), 24 Colovos Road, Durham 03824. UNH Scholars Repository (https://scholars.unh.edu/).

Database Description:

The "New Hampshire Continental Shelf Geophysical Database: 2016-2017 Field Campaign - Seafloor and Sample Photographs and Sediment Data " contains photographs of the seafloor from sampling locations, photographs of the sediment samples, and grain size data from a major field campaign conducted in 2016-2017 and from the UNH Ocean Engineering 972 Hydrographic Field Course classes in 2012, 2014, and 2018. In total, sixteen one-day cruises provided 150 samples for grain size analysis. The database provides complete descriptions for each sample including identification, station and sample characteristics, sediment classifications, grain size statistics, and grain size distribution. The grain size data is grouped by survey or location and the year when high-resolution multibeam echosounder bathymetry was run in that area. The Station IDs indicate the type of survey (e.g., SH stands for Summer Hydro) and/or location (NSBE), the year of the bathymetry survey (i.e., 06, 07, etc.), and the station number (e.g., T03, T04, etc. or S01, S02, etc.). Each sample has a “Reliability Ranking for Positioning” which gives an estimate of the uncertainty of the location of the sample classified from 1 to 4. Explanation of uncertainty and the numbering system is given in Ward et al. (2021). Briefly, the uncertainty is as follows: category 1 is <30m; category 2 is 30 to 50m; category 3 is 185 to 463m; and category 4 is 250 to 1000

The stations sampled during the New Hampshire Continental Shelf 2016-2017 Field Campaign were targeted at locations where there was high-resolution bathymetry available. The bathymetry includes MBES surveys conducted by the UNH CCOM/JHC Hydrographic Field Course (Ocean Engineering 972) (all GSH or SH), NOS surveys (NSBE), and lidar surveys by the USGS (Shoals) (see Ward et al., 2021). In this database the stations are grouped by survey or location and year the bathymetry survey was run. The Station IDs indicate the type of survey (e.g., SH, GSH, Shoals) and/or location (NSBE), the year of the bathymetry survey (i.e., 06, 07, etc.), and the station number (e.g., T03, T04, etc. or S01, S02, etc.). In total, sixteen one-day cruises provided 150 samples for grain size analysis.

Presented here are tables with the station locations and types of data available followed by single sample summaries for each sample collected and analyzed. Included in each summary are location information, seafloor photographs, photographs of the sample (in field and laboratory) where available, collection information, sediment classifications, grain size statistics, and grain size distribution. Samples were analyzed with standard sieve and pipette analyses after Folk (1980). The sediment grain size classifications include: CMECS (Coastal and Marine Ecological Classification Standard; FGDC, 2012); Gradistat (Blot and Pye, 2001); and Wentworth (Wentworth, 1922; described in Folk, 1954, 1980). Statistics are based on the phi scale and include the graphic mean, sorting, skewness, and kurtosis (Folk, 1980).

Acknowledgements:

The development of this database and an associated report "Surficial Geology of the Continental Shelf off New Hampshire, USA: Morphologic Features and Surficial Sediments" was supported by the University of New Hampshire/National Oceanic and Atmospheric Administration Joint Hydrographic Center Award Number NA15NOS4000200 and the Bureau of Ocean Energy Management Award Number M14AC00010.

References:

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Station Locations and Sampling History

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH06_T03	43.066875	-70.670733	11.0	8/1/2017	Y	Y	Y
GSH06_T04	43.071793	-70.660163	15.2	8/1/2017	Y	Y	Y
GSH06_T06	43.078768	-70.656497	10.0	8/1/2017	Y		
GSH06_T07	43.088600	-70.653268	8.5	8/1/2017	Y	Y	Y
Shoals07_S01	42.872299	-70.805992	9.4	10/13/2016	Y		
Shoals07_S02	42.868036	-70.810027	8.5	10/13/2016	Y	Y	Y
Shoals07_S03	42.868160	-70.803958	9.1	10/13/2016	Y		
Shoals07_S04	42.864090	-70.806587	14.6	10/13/2016	Y		
Shoals07_S05	42.861377	-70.806588	9.1	10/13/2016	Y		
Shoals07_S06	42.858927	-70.806217	15.8	10/13/2016	Y		
Shoals07_S07	42.855850	-70.807233	13.4	10/13/2016	Y	Y	Y
Shoals07_S08	42.855847	-70.803396	16.8	10/13/2016	Y	Y	Y
Shoals07_S09	42.854926	-70.805300	12.0	10/6/2016	Y	Y	Y
Shoals07_S09-2	42.854691	-70.805010	11.9	10/13/2016	Y		
Shoals07_S11	42.849072	-70.805784	13.4	10/6/2016	Y	Y	Y
Shoals07_S11-2	42.849118	-70.805506	12.2	10/13/2016	Y		
Shoals07_S12	42.846389	-70.805687	11.3	10/6/2016	Y		
Shoals07_S13	42.843429	-70.801355	15.2	10/6/2016	Y	Y	Y
Shoals07_S13-2	42.843243	-70.801207	14.0	10/13/2016	Y		
Shoals07_S14	42.829714	-70.805199	8.8	10/6/2016	Y	Y	Y
Shoals07_S14-3	42.829303	-70.805617	7.6	10/13/2016	Y		
GSH12_T01	43.061225	-70.665870	20.1	8/1/2017	Y		
GSH12_T02	43.065934	-70.661847	16.8	8/1/2017	Y		
GSH12_T03	43.062239	-70.659768	14.9	8/1/2017	Y		
GSH12_T05	43.054176	-70.655580	18.9	8/1/2017	Y		
GSH12_T06	43.050548	-70.655044	29.9	8/1/2017	Y	Y	Y
GSH12_T08	43.065093	-70.650458	12.8	8/1/2017	Y		
GSH12_T09	43.060070	-70.648875	20.7	7/19/2017	Y		
GSH12_T10	43.053340	-70.643997	26.8	7/19/2017	Y	Y	Y
GSH12_T11	43.047794	-70.642528	29.0	7/19/2017	Y		
GSH12_T12	43.044385	-70.635119	32.0	7/19/2017	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH12_T13	43.074722	-70.651201	10.7	7/19/2017	Y		
GSH12_T14	43.068737	-70.643519	16.8	8/1/2017	Y		
GSH12_T15	43.063468	-70.640147	14.6	8/1/2017	Y		
GSH12_T16	43.050815	-70.631221	20.4	7/19/2017	Y		
GSH12_T17	43.062383	-70.631459	26.5	7/19/2017	Y	Y	Y
GSH12_T18	43.078743	-70.645144	15.2	8/1/2017	Y	Y	Y
GSH12_T19	43.082730	-70.646555	10.1	8/1/2017	Y		
GSH12_T20	43.082758	-70.650398	14.3	8/1/2017	Y	Y	Y
GSH12_T21	43.088377	-70.645729	18.3	8/1/2017	Y	Y	Y
GSH12_T22	43.091586	-70.650512	9.4	7/19/2017	Y	Y	Y
GSH12_T23	43.095915	-70.645111	12.2	7/19/2017	Y	Y	Y
GSH12_T24	43.089942	-70.655696	7.3	8/1/2017	Y	Y	Y
GSH12_T50	43.055388	-70.628376	30.5	7/19/2017	Y		
GSH12_T51	43.055253	-70.623333	33.2	7/19/2017	Y	Y	Y
GSH12_T52	43.056485	-70.632533	18.3	7/19/2017	Y		
SH12-01-A	43.048528	-70.649317	27.1	6/28/2012	Y	Y	
SH12-02	43.053003	-70.644819	23.5	6/28/2012	Y	Y	Y
SH12-03-A	43.052022	-70.641728	17.1	6/28/2012	Y		
SH12-03-B	43.051731	-70.641808	17.1	6/28/2012	Y		
SH12-03-C	43.052122	-70.641561	N/A	6/28/2012	Y		
SH12-04	43.048156	-70.639286	24.4	6/28/2012	Y	Y	Y
SH12-05	43.043894	-70.634703	32.6	6/28/2012	Y	Y	Y
SH12-06-A	43.050539	-70.632264	21.6	6/28/2012	Y		
SH12-06-B	43.050553	-70.632428	N/A	6/28/2012	Y		
SH12-07	43.050233	-70.629839	N/A	6/28/2012	Y		
SH12-08	43.052706	-70.624306	33.2	6/28/2012	Y	Y	
SH12-09	43.055544	-70.623825	33.5	6/28/2012	Y	Y	Y
SH12-10	43.061981	-70.649350	N/A	6/28/2012	Y	Y	
SH12-11	43.057017	-70.650367	N/A	6/28/2012	Y	Y	Y
SH12-12	43.094919	-70.639372	N/A	6/28/2012	Y	Y	Y
SH12-13	43.097294	-70.648036	10.1	6/28/2012	Y	Y	Y
SH12-14	43.096169	-70.646881	11.3	6/28/2012	Y	Y	Y
SH12-15-A	43.093869	-70.648525	8.2	6/28/2012	Y		
SH12-15-B	43.093020	-70.647627	13.7	6/28/2012	Y	Y	Y
SH12-16	43.091936	-70.651581	8.8	6/28/2012	Y	Y	Y
SH12-17	43.063233	-70.663283	22.6	6/28/2012	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH13-T10	43.026381	-70.714468	11.0	7/17/2017	Y		
GSH13-T11	43.024318	-70.713641	13.4	7/17/2017	Y	Y	Y
GSH13-T13	43.022075	-70.719898	11.0	7/17/2017	Y	Y	Y
GSH13-T14	43.020354	-70.722841	9.4	7/17/2017	Y	Y	Y
GSH13-T15	43.017187	-70.719325	15.5	7/17/2017	Y	Y	Y
GSH13-T16	43.014625	-70.722427	13.4	7/17/2017	Y		
GSH13-T17	43.014386	-70.726680	8.5	7/17/2017	Y	Y	Y
GSH14_T12	42.992188	-70.726966	17.1	7/18/2017	Y		
GSH14_T14	42.983649	-70.738158	15.8	7/18/2017	Y	Y	Y
GSH14_T15	42.982267	-70.736127	18.9	7/18/2017	Y	Y	Y
GSH14_T16	42.978441	-70.736979	19.8	7/18/2017	Y	Y	Y
GSH14_T17	42.977165	-70.740457	19.5	11/1/2016	Y	Y	Y
GSH14_T18	42.974451	-70.743121	17.4	11/1/2016	Y		
GSH14_T19	42.972294	-70.745278	16.2	11/1/2016	Y		
GSH14_T20	42.974777	-70.749365	17.4	11/1/2016	Y	Y	Y
GSH14_T21	42.974018	-70.750086	15.8	7/18/2017	Y		
GSH14_T23	42.978113	-70.746629	15.8	11/1/2016	Y		
GSH14_T24	42.979850	-70.745290	14.9	7/18/2017	Y	Y	Y
GSH14_T25	42.981999	-70.745452	15.2	11/1/2016	Y		
GSH14_T27	42.986960	-70.743435	12.2	7/18/2017	Y		
GSH14_T35	42.979467	-70.742292	16.5	7/18/2017	Y	Y	Y
GSH14_T36	42.979925	-70.752487	8.2	7/18/2017	Y	Y	Y
SH14_BS-01A	42.972965	-70.743245	15.8	6/30/2014	Y		
SH14_BS-02	42.979475	-70.741855	18.3	6/30/2014	Y	Y	Y
SH14_BS-Extra	42.983121	-70.752974	8.1	6/30/2014	Y	Y	
SH14_BS-03A	42.983972	-70.736481	20.3	6/30/2014	Y	Y	Y
SH14_BS-03B	42.983936	-70.736288	20.9	6/30/2014	Y	Y	Y
SH14_BS-04A	42.990993	-70.731050	16.9	6/30/2014	Y	Y	
SH14_BS-04B	42.991207	-70.731278	16.8	6/30/2014	Y		
SH14_BS-05	42.996231	-70.740064	10.6	6/30/2014	Y	Y	Y
SH14_BS-06	42.995856	-70.728489	17.7	7/1/2014	Y	Y	Y
SH14_BS-07	43.000470	-70.727247	16.5	7/1/2014	Y	Y	Y
SH14_BS-08	43.000737	-70.722898	19.8	7/1/2014	Y	Y	Y
SH14_BS-09	43.006318	-70.720523	8.8	7/1/2014	Y	Y	Y
SH14_BS-10	43.008803	-70.714451	20.7	7/1/2014	Y	Y	Y
SH14_BS-11	42.996592	-70.727623	17.4	7/1/2014	Y	Y	
GSH15_T01	42.930871	-70.790805	7.6	11/1/2016	Y	Y	Y

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
GSH15_T02	42.926577	-70.790042	8.8	11/1/2016	Y	Y	Y
GSH15_T04	42.943020	-70.777881	14.3	11/1/2016	Y		
GSH15_T05	42.947430	-70.775635	13.1	11/1/2016	Y	Y	Y
GSH15_T06	42.941297	-70.771655	15.2	11/1/2016	Y		
GSH15_T07	42.935006	-70.767757	21.9	10/6/2016	Y	Y	Y
GSH15_T08	42.932906	-70.773033	20.1	11/1/2016	Y	Y	Y
GSH15_T09	42.927505	-70.777355	18.3	11/1/2016	Y		
GSH15_T10	42.922464	-70.780157	15.8	10/6/2016	Y	Y	Y
GSH15_T12	42.924009	-70.786317	12.2	11/1/2016	Y		
GSH15_T14	42.944763	-70.761670	23.5	11/1/2016	Y	Y	Y
GSH15_T15	42.941103	-70.762389	82.0	11/1/2016	Y	Y	Y
GSH15_T17	42.951865	-70.764080	14.3	11/1/2016	Y		
GSH15_T18	42.957298	-70.767873	9.8	11/1/2016	Y		
GSH15_T19	42.955194	-70.761460	12.8	11/1/2016	Y		
GSH16-T01	43.045297	-70.697871	16.8	7/10/2017	Y	Y	Y
GSH16-T02	43.042899	-70.697748	17.1	7/10/2017	Y	Y	Y
GSH16-T03	43.041998	-70.694267	16.2	7/10/2017	Y	Y	Y
GSH16-T04	43.039079	-70.686425	21.3	7/10/2017	Y	Y	Y
GSH16-T05	43.035313	-70.683228	25.9	7/10/2017	Y	Y	Y
GSH16-T06	43.031908	-70.682273	27.7	7/10/2017	Y	Y	Y
GSH16-T07	43.026767	-70.677968	25.9	7/11/2017	Y	Y	Y
GSH16-T08	43.022048	-70.682323	23.5	7/11/2017	Y		
GSH16-T09	43.018776	-70.687632	18.3	7/11/2017	Y		
GSH16-T10	43.021826	-70.702667	8.8	7/11/2017	Y		
GSH16-T11	43.024464	-70.704939	18.9	7/11/2017	Y	Y	Y
GSH16-T12	43.025693	-70.710856	15.8	7/11/2017	Y	Y	Y
GSH16-T13	43.030201	-70.708662	16.5	7/11/2017	Y		
GSH16-T14	43.030153	-70.702878	17.7	7/11/2017	Y	Y	Y
GSH16-T15	43.031050	-70.698484	17.7	7/11/2017	Y	Y	Y
GSH16-T16	43.033065	-70.698736	16.8	7/11/2017	Y		
GSH16-T17	43.033956	-70.693845	18.3	7/11/2017	Y	Y	Y
GSH16-T18	43.036400	-70.695581	16.8	7/11/2017	Y	Y	Y
GSH16-TS06	42.855997	-70.794752	18.0	10/13/2016	Y	Y	Y
GSH16-TS09	42.857124	-70.799412	16.5	10/13/2016	Y	Y	Y
GSH16-TS10	42.853463	-70.799742	17.4	10/13/2016	Y	Y	Y
SH18-T01	43.110880	70.621355	25.0	7/9/2018	Y	Y	Y
SH18-T02	43.111675	70.624758	18.2	7/9/2018	Y	Y	

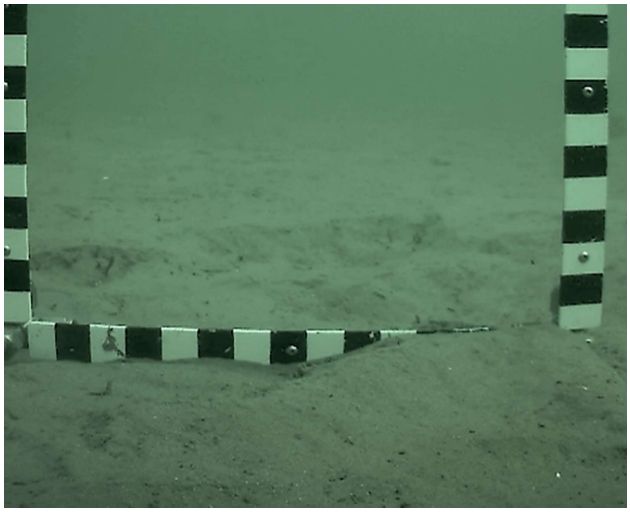
Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
SH18-T03	43.112021	70.617811	22.5	7/9/2018	Y	Y	
SH18-T04	43.115655	70.625815	13.6	7/9/2018	Y	Y	
SH18-T05	43.097957	70.635421	14.7	7/9/2018	Y	Y	
SH18-T06	43.098228	70.630833	14.7	7/9/2018	Y	Y	
SH18-T07	43.100331	70.629278	21.3	7/9/2018	Y	Y	Y
SH18-T08	43.098002	70.625083	22.3	7/9/2018	Y		
SH18-T09	43.095290	70.627049	20.0	7/9/2018	Y	Y	Y
SH18-T10	43.085579	70.636676	27.1	7/9/2018	Y	Y	Y
SH18-T11	43.078903	70.640364	13.9	7/9/2018	Y	Y	
SH18-T12	43.075575	70.638538	10.3	7/9/2018	Y		
NSBE-T01	42.968322	-70.660788	43.6	8/8/2017	Y	Y	Y
NSBE-T02	42.971764	-70.653901	40.5	8/8/2017	Y	Y	Y
NSBE-T03	42.976383	-70.643870	35.7	8/7/2017	Y	Y	Y
NSBE-T04	42.990159	-70.638573	20.7	8/7/2017	Y	Y	Y
NSBE-T05	42.986699	-70.645589	24.4	8/7/2017	Y	Y	Y
NSBE-T06	42.981125	-70.655257	26.8	8/7/2017	Y		
NSBE-T06a	42.980573	-70.655550	27.1	8/7/2017	Y	Y	Y
NSBE-T07	42.977264	-70.669788	24.7	8/7/2017	Y		
NSBE-T08	42.980381	-70.672999	21.0	8/7/2017	Y		
NSBE-T09a	42.981201	-70.677443	21.9	8/7/2017	Y		
NSBE-T10	42.976370	-70.678328	37.5	8/7/2017	Y	Y	Y
NSBE-T11	42.981649	-70.686066	30.8	8/8/2017	Y		
NSBE-T12	42.984786	-70.685358	32.3	8/8/2017	Y	Y	Y
NSBE-T13	42.987658	-70.660873	30.5	8/8/2017	Y	Y	Y
NSBE-T14	42.990282	-70.668139	26.8	8/8/2017	Y	Y	Y
NSBE-T15	42.991793	-70.674793	29.9	8/8/2017	Y	Y	Y
NSBE-T16	42.996550	-70.670892	33.5	8/8/2017	Y		
NSBE-T17	42.991445	-70.689473	19.5	8/16/2017	Y		
NSBE-T18	42.990468	-70.695505	17.4	8/16/2017	Y		
NSBE-T19	42.989167	-70.699695	21.3	8/8/2017	Y		
NSBE-T20	42.987371	-70.694519	25.3	8/8/2017	Y	Y	Y
NSBE-T21a	42.991405	-70.702695	27.4	8/8/2017	Y	Y	Y
NSBE-T22	43.001453	-70.657417	19.2	8/15/2017	Y		
NSBE-T23	43.005541	-70.668076	17.1	8/15/2017	Y		
NSBE-T24	43.011734	-70.676721	18.9	8/16/2017	Y		
NSBE-T25	43.009708	-70.664556	27.7	8/15/2017	Y		
NSBE-T26	43.003448	-70.672623	26.8	8/15/2017	Y		
NSBE-T27	43.015685	-70.676396	27.4	8/16/2017	Y		

Station Locations and Sampling History: Continued

Station ID	Latitude WGS84	Longitude WGS84	Water Depth (m)	Sample Collected	Video Recorded	Sample Collected	Analyzed (Reported)
NSBE-T28	42.978978	-70.674840	19.8	8/15/2017	Y		
NSBE-T29	42.979621	-70.679554	26.5	8/15/2017	Y	Y	Y
NSBE-T30	42.985811	-70.671644	26.2	8/15/2017	Y	Y	Y
NSBE-T31	42.987403	-70.669282	33.5	8/15/2017	Y		
NSBE-T32	42.985106	-70.663309	34.7	8/15/2017	Y	Y	Y
NSBE-T33	42.984001	-70.673906	20.1	8/15/2017	Y		
NSBE-T34	42.982058	-70.702832	18.9	8/16/2017	Y		
NSBE-T35	42.990936	-70.712882	13.7	8/16/2017	Y		
NSBE-T36	42.995784	-70.710278	25.6	8/16/2017	Y	Y	Y
NSBE-T37	42.997882	-70.688657	14.3	8/16/2017	Y		
NSBE-T38	43.000245	-70.701154	14.6	8/16/2017	Y		
NSBE-T39	43.005076	-70.694332	23.5	8/16/2017	Y	Y	Y
NSBE-T40	42.973863	-70.698420	32.9	8/16/2017	Y	Y	Y
NSBE-T41	42.983621	-70.710607	16.8	8/16/2017	Y		
NSBE-T42	42.971760	-70.670194	37.2	8/16/2017	Y	Y	Y
NSBE-T43	43.007699	-70.664900	27.4	8/15/2017	Y		
NSBE-T45	43.026969	-70.648673	33.5	8/16/2017	Y	Y	Y
NSBE-T47	43.006194	-70.679682	26.8	8/16/2017	Y		
NSBE-T52	43.022767	-70.666995	21.6	8/16/2017	Y		
NSBE-T59	42.998502	-70.648205	27.4	8/15/2017	Y		
NSBE-T60	42.995995	-70.652881	21.9	8/15/2017	Y		
NSBE-T61	42.992317	-70.659907	30.2	8/16/2017	Y	Y	Y
NSBE-T62	42.985456	-70.653036	23.8	8/15/2017	Y	Y	Y
NSBE-T64	42.978964	-70.663495	25.6	8/15/2017	Y	Y	Y

GSH06-T03



Sample 1

Station Information

Latitude, Longitude:	42.930871	-70.670733
Water Depth (m):	11.0	
Sample Weight (g):	79.8	
Date Collected, Analyzed:	8/1/2017	2/12/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

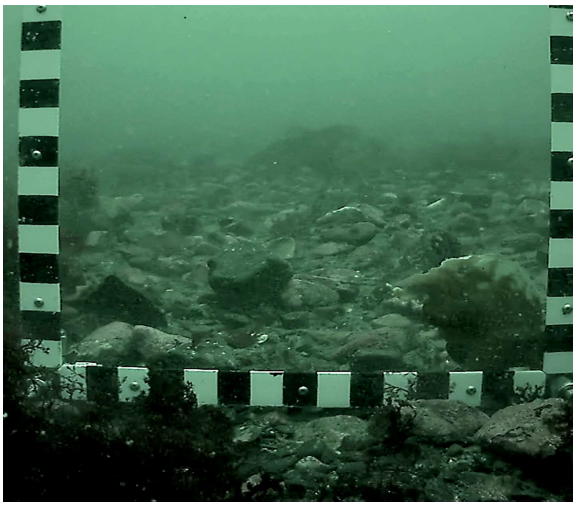
Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

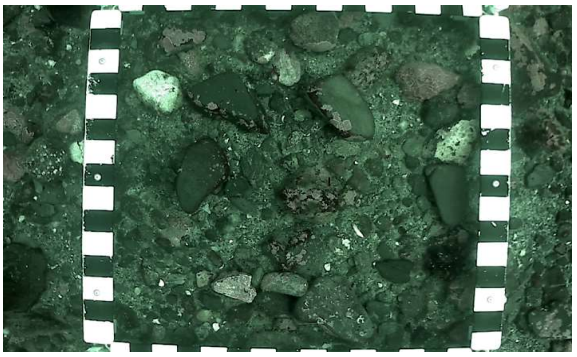
Statistics

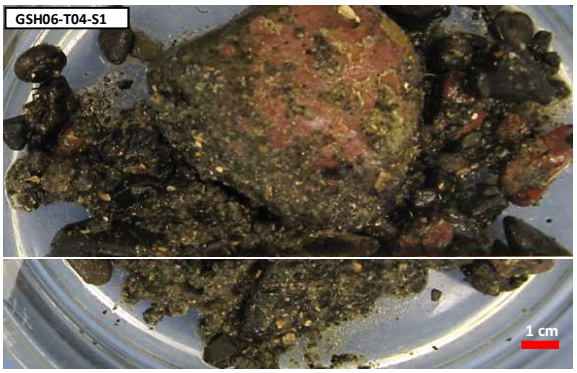
Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	96.3
Mud %:	3.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.31
Mean size (mm):	0.10
Sorting (phi):	0.405
Skewness (phi):	0.060
Kurtosis (phi):	1.204
D_{10} (phi):	2.74
D_{10} (mm):	0.15
D_{50} (phi):	3.28
D_{50} (mm):	0.10
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.04
-0.5	0.01
0	0.01
0.5	0.02
1	0.08
1.5	0.22
2	0.39
2.5	0.96
3	16.09
3.5	54.43
4	24.05
>4	3.68
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH06-T04

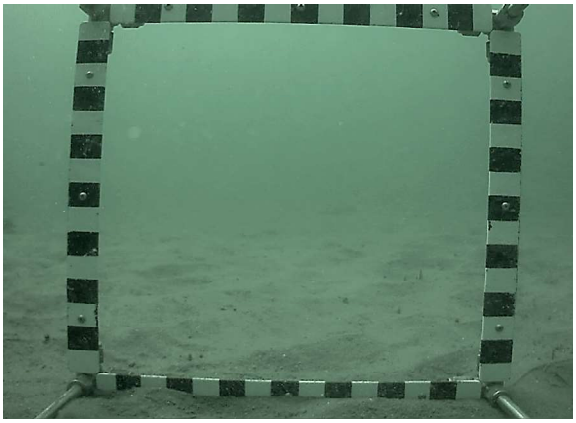


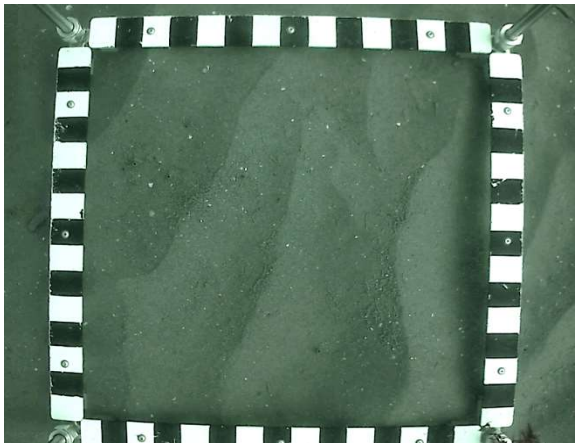




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.071793	-70.660163	43.071747	-70.660160
Water Depth (m):	15.2		15.2	
Sample Weight (g):	495.7		334.8	
Date Collected, Analyzed:	8/1/2017	5/23/2018	8/1/2017	2/12/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Very Coarse Gravel		Medium Gravel	
Mean Size:	Coarse Gravel		Fine Gravel	
Sorting:	Poorly Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	90.5		80.4	
Pebble %:	88.6		67.2	
Granule %:	2.0		13.2	
Sand %:	9.1		18.9	
Mud %:	0.4		0.7	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	N/A		N/A	
Mode 1 (phi):	N/A		N/A	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-4.74		-2.70	
Mean size (mm):	26.78		6.48	
Sorting (phi):	1.749		1.987	
Skewness (phi):	0.823		0.381	
Kurtosis (phi):	1.207		1.184	
D_{10} (phi):	-5.88		-4.66	
D_{10} (mm):	58.93		25.25	
D_{50} (phi):	-5.50		-3.04	
D_{50} (mm):	45.10		8.23	
LOI % (450°C):	N/A		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	50.31		0.00	
-5	0.00		0.00	
-4.5	15.16		15.42	
-4	0.00		3.46	
-3.5	8.86		16.37	
-3	9.05		16.12	
-2.5	3.52		9.37	
-2	1.64		6.45	
-1.5	1.18		6.93	
-1	0.79		6.24	
-0.5	0.78		5.24	
0	0.95		2.93	
0.5	1.54		1.81	
1	1.96		1.62	
1.5	1.58		1.41	
2	0.85		1.42	
2.5	0.38		1.15	
3	0.38		1.25	
3.5	0.46		1.41	
4	0.19		0.70	
>4	0.40		0.71	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH06-T07





Station Information	Sample 1		Sample 2	
Latitude, Longitude:	43.088600	-70.653268	43.088606	-70.653326
Water Depth (m):	8.5		8.5	
Sample Weight (g):	135.4		98.3	
Date Collected, Analyzed:	8/1/2017	5/23/2018	8/1/2017	2/12/2018

CMECS Classifications	Sample 1	Sample 2
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Pebbly	Slightly Granuley
Subgroup:	Slightly Pebbly Fine Sand	Slightly Granuley Fine Sand

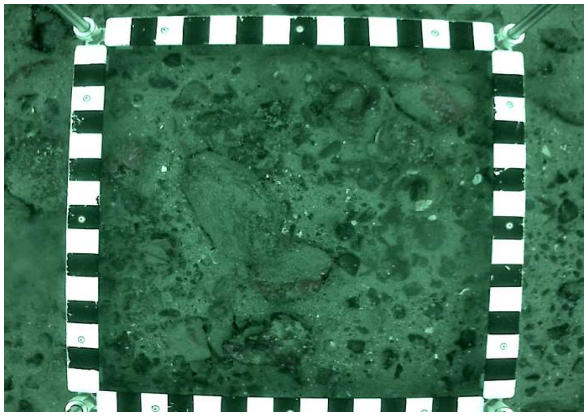
Gradistat Results	Sample 1	Sample 2
Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Well Sorted	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale	Sample 1	Sample 2
Sediment Name:	Slightly Pebbly Fine Sand	Slightly Granular Fine Sand
Mean Size:	Fine Sand	Fine Sand

Statistics	Sample 1	Sample 2
Gravel %:	0.7	0.5
Pebble %:	0.7	0.2
Granule %:	0.0	0.3
Sand %:	98.8	98.9
Mud %:	0.5	0.6
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.74	2.74
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.87	2.90
Mean size (mm):	0.14	0.13
Sorting (phi):	0.378	0.391
Skewness (phi):	0.058	0.037
Kurtosis (phi):	1.102	0.992
D_{10} (phi):	2.46	2.48
D_{10} (mm):	0.18	0.18
D_{50} (phi):	2.82	2.86
D_{50} (mm):	0.14	0.14
LOI % (450°C):	0.4	0.3

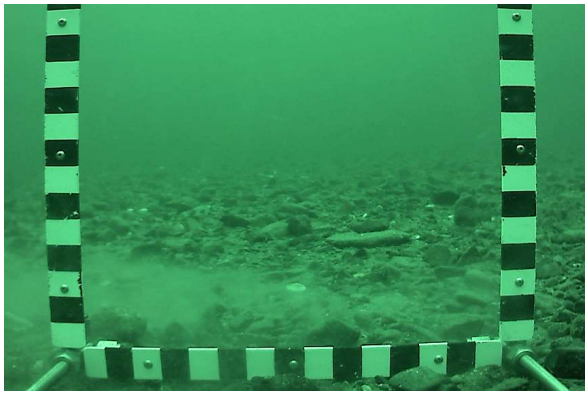
Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.69	0.00
-2.5	0.00	0.00
-2	0.00	0.19
-1.5	0.00	0.26
-1	0.00	0.05
-0.5	0.01	0.03
0	0.07	0.06
0.5	0.09	0.10
1	0.22	0.28
1.5	0.47	0.55
2	1.33	1.09
2.5	7.37	7.31
3	59.67	54.51
3.5	26.99	30.80
4	2.61	4.17
>4	0.48	0.62
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

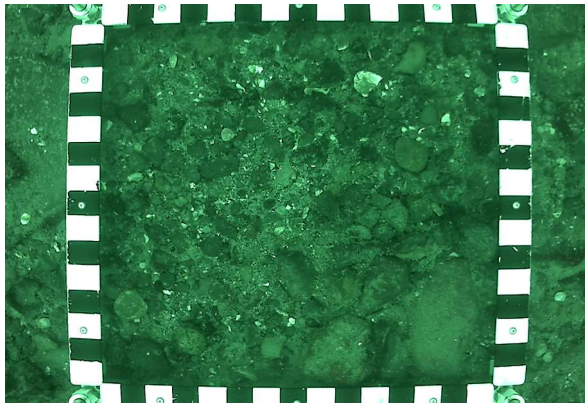
GSH12-T06



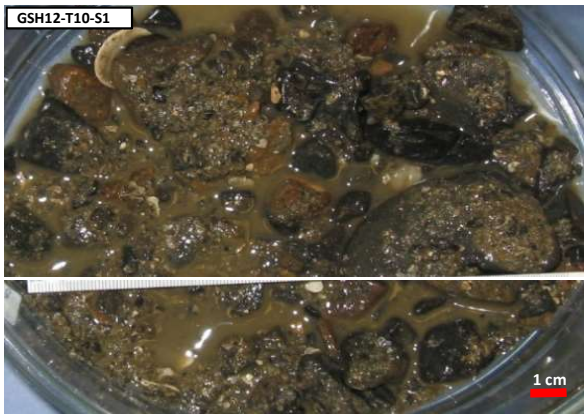
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.050548	-70.655044	43.050665	-70.654846
Water Depth (m):	29.9		29.3	
Sample Weight (g):	1071.1		861.1	
Date Collected, Analyzed:	8/7/2017	2/12/2018	8/7/2017	5/23/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravel		Very Coarse Gravel	
Mean Size:	Fine Gravel		Medium Gravel	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	80.1		84.8	
Pebble %:	77.1		83.4	
Granule %:	3.0		1.4	
Sand %:	17.9		13.6	
Mud %:	2.0		1.6	
Silt %:	1.3		N/A	
Clay %:	0.8		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-4.73		-5.38	
Mode 2 (phi):	2.24		2.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-2.69		-3.74	
Mean size (mm):	6.47		13.34	
Sorting (phi):	2.552		2.259	
Skewness (phi):	0.581		0.402	
Kurtosis (phi):	1.411		1.634	
D_{10} (phi):	-5.09		-5.74	
D_{10} (mm):	34.13		53.52	
D_{50} (phi):	-3.72		-4.06	
D_{50} (mm):	13.15		16.71	
LOI % (450°C):	N/A		0.9	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		20.63	
-5	12.91		7.13	
-4.5	21.45		10.70	
-4	4.27		13.26	
-3.5	20.70		13.91	
-3	10.25		12.22	
-2.5	5.09		4.38	
-2	2.41		1.15	
-1.5	1.73		0.72	
-1	1.31		0.72	
-0.5	1.29		0.77	
0	1.09		0.67	
0.5	1.29		0.79	
1	2.24		1.28	
1.5	2.65		1.91	
2	2.87		2.68	
2.5	3.11		2.71	
3	2.26		1.92	
3.5	0.66		0.58	
4	0.39		0.27	
>4	N/A		1.60	
5	0.60		N/A	
6	0.31		N/A	
7	0.19		N/A	
8	0.17		N/A	
9	0.16		N/A	
10	0.14		N/A	
Smaller than 10	0.47		N/A	

GSH12-T10

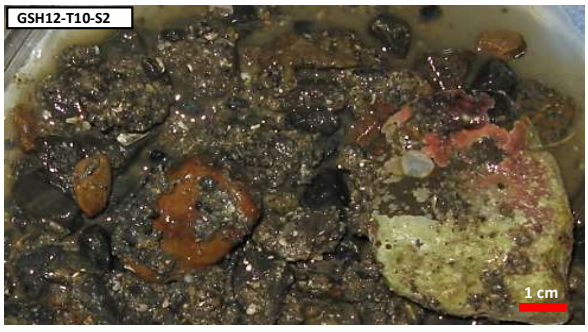




GSH12-T10-S1



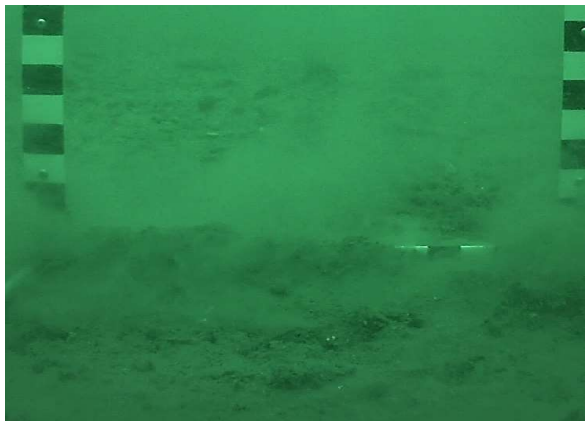
GSH12-T10-S2

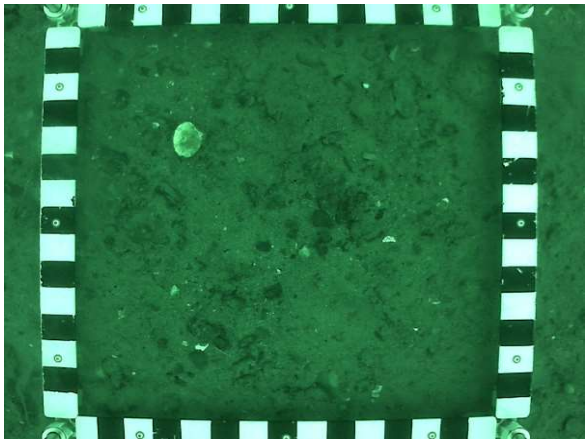


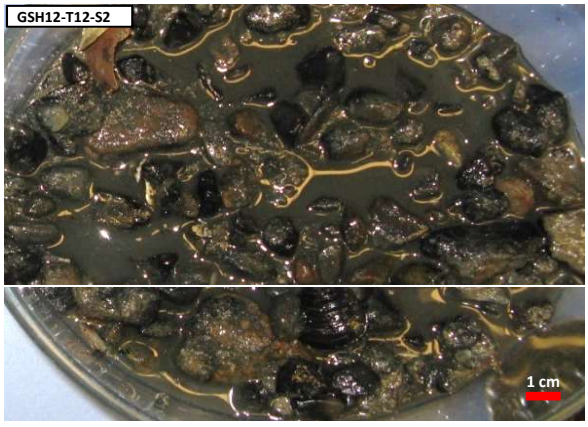
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.053340	-70.643997	43.053312	-70.643906
Water Depth (m):	26.8		26.5	
Sample Weight (g):	301.2		381.8	
Date Collected, Analyzed:	7/19/2017	2/5/2018	7/19/2017	2/5/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravel		Medium Gravel	
Mean Size:	Fine Gravel		Medium Gravel	
Sorting:	Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	84.3		83.17	
Pebble %:	83.8		77.7	
Granule %:	0.6		5.5	
Sand %:	15.1		16.33	
Mud %:	0.6		0.5	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Bimodal	
Mode 1 (phi):	-3.24		-5.24	
Mode 2 (phi):	N/A		-3.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-2.80		-3.14	
Mean size (mm):	6.97		8.80	
Sorting (phi):	1.310		2.111	
Skewness (phi):	0.537		0.296	
Kurtosis (phi):	2.578		1.036	
D_{10} (phi):	-3.24		-5.29	
D_{10} (mm):	9.47		39.23	
D_{50} (phi):	-3.06		-3.40	
D_{50} (mm):	8.32		10.54	
LOI % (450°C):	0.7		0.5	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	25.95
-4.5	0.00	5.99
-4	2.75	2.55
-3.5	18.89	12.14
-3	32.10	18.63
-2.5	25.29	8.21
-2	4.72	4.23
-1.5	0.44	2.94
-1	0.13	2.51
-0.5	1.64	2.69
0	2.36	2.59
0.5	2.38	2.56
1	2.17	2.32
1.5	2.04	2.10
2	2.24	2.36
2.5	1.50	1.20
3	0.53	0.39
3.5	0.11	0.06
4	0.11	0.05
>4	0.60	0.50
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH12-T12

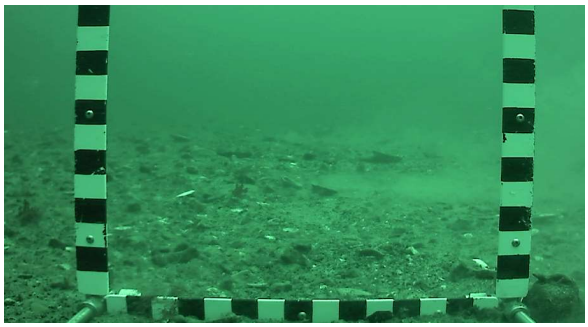


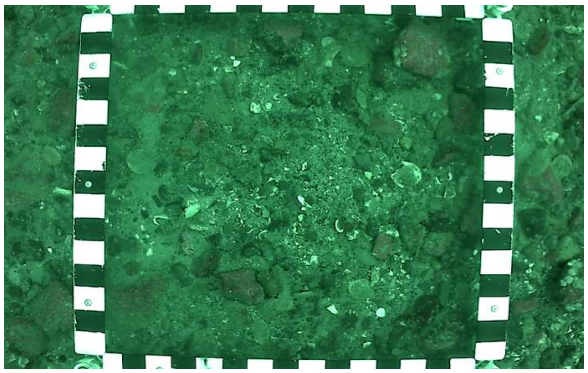




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.044385	-70.635119	43.044436	-70.635434
Water Depth (m):	32.0		32.0	
Sample Weight (g):	259.0		361.0	
Date Collected, Analyzed:	7/19/2017	2/12/2018	7/19/2017	2/12/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Medium Gravel	
Mean Size:	Very Coarse Sand		Fine Gravel	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Very Coarse Sand		Pebble Gravel	
Statistics				
Gravel %:	45.1		74.7	
Pebble %:	39.6		70.2	
Granule %:	5.4		4.6	
Sand %:	51.7		24.0	
Mud %:	3.2		1.3	
Silt %:	1.5		N/A	
Clay %:	1.6		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-3.24		-3.74	
Mode 2 (phi):	1.75		2.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-0.42		-2.05	
Mean size (mm):	1.34		4.14	
Sorting (phi):	2.483		2.382	
Skewness (phi):	-0.082		0.631	
Kurtosis (phi):	0.568		1.010	
D_{10} (phi):	-3.62		-4.33	
D_{10} (mm):	12.26		20.11	
D_{50} (phi):	-0.20		-3.18	
D_{50} (mm):	1.15		9.09	
LOI % (450°C):	0.6		0.6	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		6.08	
-4	0.00		12.25	
-3.5	13.41		20.17	
-3	16.07		18.49	
-2.5	7.05		9.11	
-2	3.17		4.05	
-1.5	3.09		2.36	
-1	2.31		2.22	
-0.5	2.94		2.26	
0	3.29		1.67	
0.5	4.16		1.74	
1	5.85		2.76	
1.5	6.90		3.31	
2	9.50		4.16	
2.5	8.90		3.92	
3	7.97		3.31	
3.5	1.75		0.66	
4	0.49		0.21	
>4	N/A		1.26	
5	0.60		N/A	
6	0.30		N/A	
7	0.32		N/A	
8	0.30		N/A	
9	0.29		N/A	
10	0.73		N/A	
Smaller than 10	0.63		N/A	

GSH12-T17

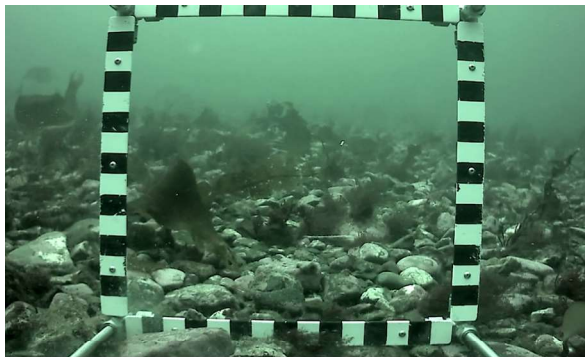


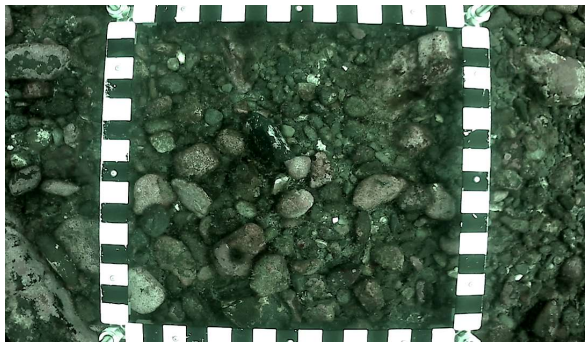


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.062383	-70.631459	43.062393	-70.631335
Water Depth (m):	26.5		26.8	
Sample Weight (g):	307.1		249.5	
Date Collected, Analyzed:	7/19/2017	2/8/2018	7/19/2017	2/5/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Fine Gravel	
Mean Size:	Very Fine Gravel		Very Coarse Sand	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Granule Gravel		Very Coarse Sand	
Statistics				
Gravel %:	60.6		34.5	
Pebble %:	51.3		24.2	
Granule %:	9.3		10.3	
Sand %:	38.3		62.7	
Mud %:	1.1		2.8	
Silt %:	N/A		1.4	
Clay %:	N/A		1.3	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-3.74		0.75	
Mode 2 (phi):	0.75		-3.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-1.67		-0.37	
Mean size (mm):	3.18		1.29	
Sorting (phi):	2.190		2.141	
Skewness (phi):	0.300		-0.222	
Kurtosis (phi):	0.664		0.874	
D_{10} (phi):	-4.10		-3.27	
D_{10} (mm):	17.14		9.67	
D_{50} (phi):	-2.13		-0.01	
D_{50} (mm):	4.36		1.01	
LOI % (450°C):	0.5		0.8	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	12.56	5.47
-3.5	16.29	1.59
-3	12.71	6.73
-2.5	4.74	5.89
-2	5.00	4.50
-1.5	4.89	4.92
-1	4.44	5.41
-0.5	5.38	7.46
0	5.17	8.28
0.5	5.84	9.71
1	6.87	11.20
1.5	5.49	9.07
2	5.14	8.59
2.5	3.11	5.61
3	0.92	2.05
3.5	0.23	0.46
4	0.16	0.31
>4	1.07	N/A
5	N/A	0.43
6	N/A	0.35
7	N/A	0.34
8	N/A	0.31
9	N/A	0.32
10	N/A	0.36
Smaller than 10	N/A	0.64

GSH12-T18



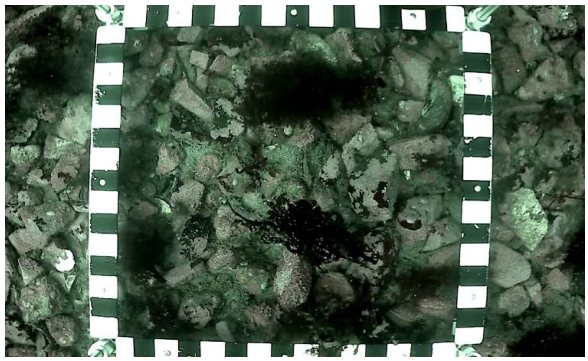


GSH12-T18-S1

GSH12-T18-S2

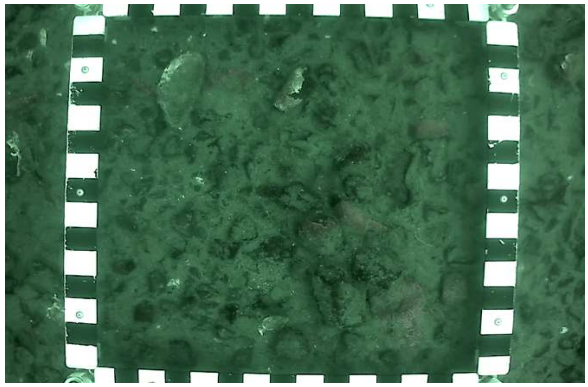
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.078743	-70.645144	43.078727	-70.645136
Water Depth (m):	15.2		15.2	
Sample Weight (g):	336.7		598.9	
Date Collected, Analyzed:	8/1/2017	2/5/2018	8/1/2017	2/5/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Coarse Gravel		Coarse Gravel	
Mean Size:	Medium Gravel		Medium Gravel	
Sorting:	Moderately Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	99.0		98.0	
Pebble %:	98.5		94.8	
Granule %:	0.6		3.2	
Sand %:	0.6		1.7	
Mud %:	0.4		0.3	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Unimodal	
Mode 1 (phi):	-4.73		-4.73	
Mode 2 (phi):	-2.74		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-3.59		-3.87	
Mean size (mm):	12.06		14.65	
Sorting (phi):	0.900		0.858	
Skewness (phi):	-0.191		0.256	
Kurtosis (phi):	0.642		1.034	
D_{10} (phi):	-4.80		-4.78	
D_{10} (mm):	27.80		27.46	
D_{50} (phi):	-3.42		-3.95	
D_{50} (mm):	10.70		15.48	
LOI % (450°C):	N/A		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	27.35		24.78	
-4	12.92		23.14	
-3.5	6.82		22.26	
-3	21.61		14.02	
-2.5	23.76		7.87	
-2	6.03		2.76	
-1.5	0.49		1.62	
-1	0.06		1.54	
-0.5	0.01		0.85	
0	0.02		0.22	
0.5	0.02		0.12	
1	0.02		0.08	
1.5	0.02		0.06	
2	0.03		0.06	
2.5	0.03		0.07	
3	0.07		0.06	
3.5	0.14		0.07	
4	0.22		0.10	
>4	0.38		0.32	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

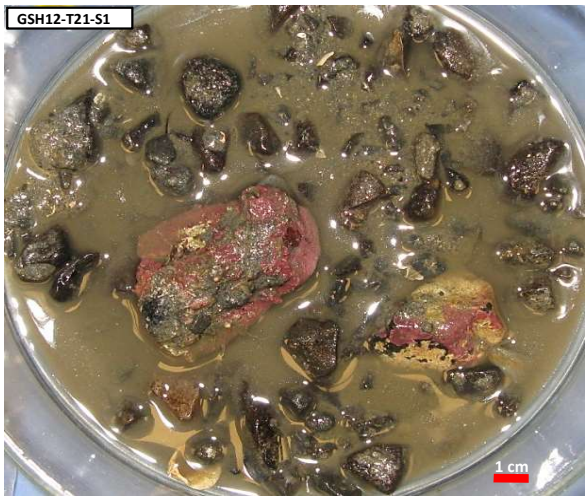
GSH12-T20



	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.082758	-70.650398	43.082805	-70.650454
Water Depth (m):	14.3		13.7	
Sample Weight (g):	305.2		263.3	
Date Collected, Analyzed:	8/1/2017	12/9/2017	8/1/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Coarse Gravel		Coarse Gravel	
Mean Size:	Coarse Gravel		Coarse Gravel	
Sorting:	Poorly Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	90.8		96.3	
Pebble %:	87.5		95.2	
Granule %:	3.3		1.1	
Sand %:	8.4		3.1	
Mud %:	0.8		0.6	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	-5.24		-4.73	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-4.01		-4.69	
Mean size (mm):	16.11		25.75	
Sorting (phi):	1.681		0.760	
Skewness (phi):	0.509		0.415	
Kurtosis (phi):	1.705		2.906	
D_{10} (phi):	-5.28		-5.3	
D_{10} (mm):	38.72		39.26	
D_{50} (phi):	-4.29		-4.76	
D_{50} (mm):	19.62		27.13	
LOI % (450°C):	N/A		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	23.77		26.09	
-4.5	20.99		54.63	
-4	13.31		4.36	
-3.5	14.32		3.60	
-3	6.63		3.86	
-2.5	6.25		1.83	
-2	2.20		0.83	
-1.5	2.09		0.62	
-1	1.24		0.50	
-0.5	0.84		0.51	
0	0.60		0.35	
0.5	0.67		0.28	
1	0.90		0.28	
1.5	1.16		0.28	
2	1.30		0.31	
2.5	1.08		0.28	
3	0.77		0.33	
3.5	0.69		0.28	
4	0.35		0.20	
>4	0.82		0.58	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH12-T21

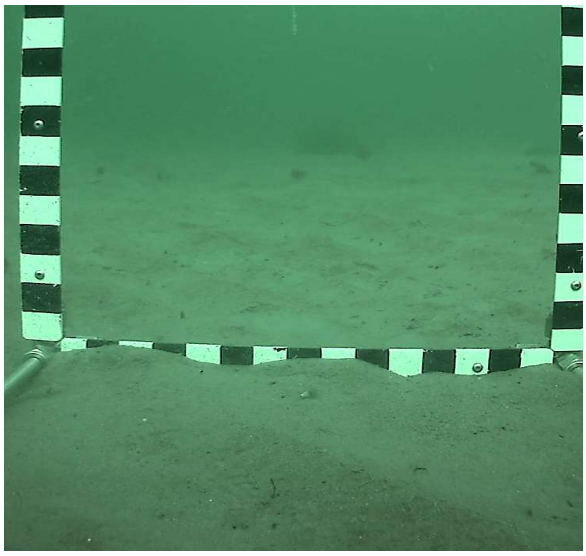


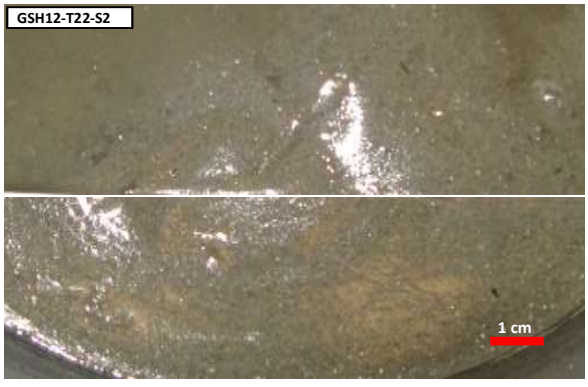


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.088377	-70.645729	43.088509	-70.645753
Water Depth (m):	18.3		18.3	
Sample Weight (g):	458.9		1068.9	
Date Collected, Analyzed:	8/1/2017	12/9/2017	8/1/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Gravel	
Subgroup:	Pebble Gravel		Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravel		Medium Gravel	
Mean Size:	Medium Gravel		Medium Gravel	
Sorting:	Very Poorly Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	85.6		85.7	
Pebble %:	82.2		83.8	
Granule %:	3.3		1.9	
Sand %:	13.0		13.0	
Mud %:	1.5		1.3	
Silt %:	N/A		1.0	
Clay %:	N/A		0.3	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-3.74		-3.74	
Mode 2 (phi):	-5.24		-4.73	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-3.38		-3.44	
Mean size (mm):	10.44		10.82	
Sorting (phi):	2.101		1.905	
Skewness (phi):	0.383		0.449	
Kurtosis (phi):	2.217		2.263	
D_{10} (phi):	-5.17		-4.87	
D_{10} (mm):	36.08		29.32	
D_{50} (phi):	-3.60		-3.67	
D_{50} (mm):	12.11		12.70	
LOI % (450°C):	0.7		N/A	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	16.15	5.98
-4.5	7.66	19.09
-4	5.39	9.71
-3.5	26.61	23.52
-3	17.60	18.47
-2.5	5.64	4.72
-2	3.21	2.34
-1.5	2.12	1.13
-1	1.22	0.78
-0.5	0.78	0.63
0	0.38	0.39
0.5	0.37	0.35
1	0.55	0.64
1.5	0.98	1.11
2	2.17	2.18
2.5	2.47	2.40
3	2.06	1.96
3.5	2.07	2.17
4	1.11	1.12
>4	1.47	N/A
5	N/A	0.63
6	N/A	0.16
7	N/A	0.10
8	N/A	0.08
9	N/A	0.13
10	N/A	0.09
Smaller than 10	N/A	0.11

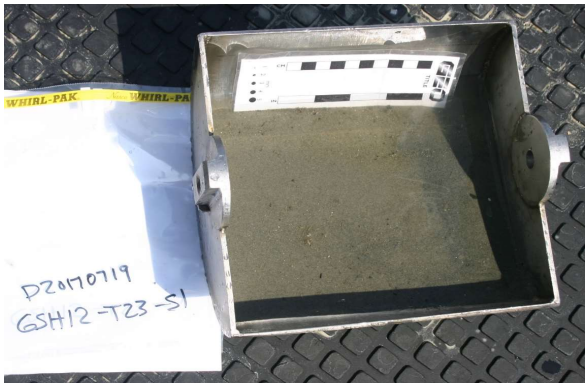
GSH12-T22





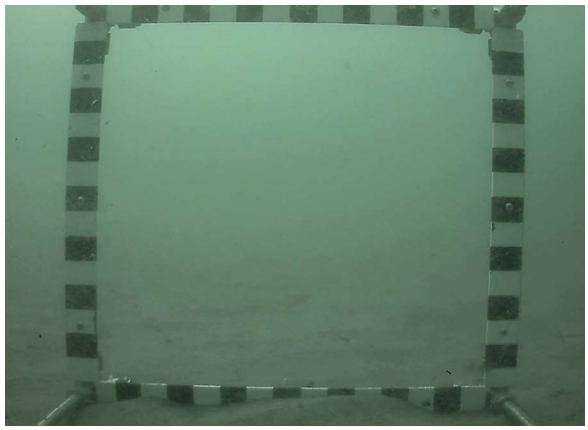
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.091586	-70.650512	43.091839	-70.651043
Water Depth (m):	9.4		9.4	
Sample Weight (g):	95.7		89.3	
Date Collected, Analyzed:	7/19/2017	12/9/2017	7/19/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Sand	
Subgroup:	Very Fine Sand		Very Fine Sand	
Gradistat Results				
Textural Group (GSM):	Sand		Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.0		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.0	
Sand %:	98.4		96.9	
Mud %:	1.6		3.1	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.08		3.09	
Mean size (mm):	0.12		0.12	
Sorting (phi):	0.398		0.409	
Skewness (phi):	-0.025		-0.010	
Kurtosis (phi):	0.980		1.016	
D_{10} (phi):	2.58		2.58	
D_{10} (mm):	0.17		0.17	
D_{50} (phi):	3.12		3.12	
D_{50} (mm):	0.12		0.11	
LOI % (450°C):	0.5		0.8	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.01		0.00	
-1	0.00		0.01	
-0.5	0.01		0.01	
0	0.02		0.00	
0.5	0.02		0.01	
1	0.03		0.03	
1.5	0.08		0.09	
2	0.29		0.30	
2.5	2.32		2.28	
3	35.50		34.94	
3.5	47.95		47.48	
4	12.20		11.77	
>4	1.59		3.08	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH12-T23



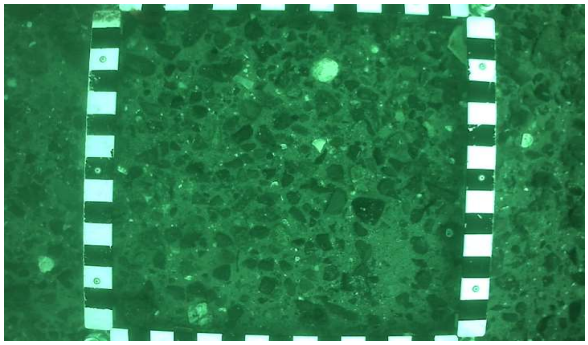
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.095915	-70.645111	43.096115	-70.645381
Water Depth (m):	12.2		12.2	
Sample Weight (g):	105.9		89.4	
Date Collected, Analyzed:	7/19/2017	12/9/2017	7/19/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Sand	
Subgroup:	Very Fine Sand		Very Fine Sand	
Gradistat Results				
Textural Group (GSM):	Sand		Sand	
Textural Group (SZC):	N/A		Sand	
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.0		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.0	
Sand %:	97.2		94.2	
Mud %:	2.9		5.8	
Silt %:	N/A		4.7	
Clay %:	N/A		1.2	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.16		3.25	
Mean size (mm):	0.11		0.11	
Sorting (phi):	0.430		0.488	
Skewness (phi):	-0.006		0.087	
Kurtosis (phi):	1.077		1.338	
D_{10} (phi):	2.64		2.48	
D_{10} (mm):	0.16		0.18	
D_{50} (phi):	3.18		3.24	
D_{50} (mm):	0.11		0.11	
LOI % (450°C):	0.6		0.7	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.00		0.00	
-1	0.00		0.00	
-0.5	0.02		0.06	
0	0.05		0.04	
0.5	0.05		0.07	
1	0.06		0.12	
1.5	0.09		0.19	
2	0.40		0.42	
2.5	2.02		1.79	
3	28.30		22.99	
3.5	49.21		48.63	
4	16.94		19.86	
>4	2.85		N/A	
5	N/A		4.30	
6	N/A		0.18	
7	N/A		0.08	
8	N/A		0.10	
9	N/A		0.13	
10	N/A		0.21	
Smaller than 10	N/A		0.82	

GSH12-T24



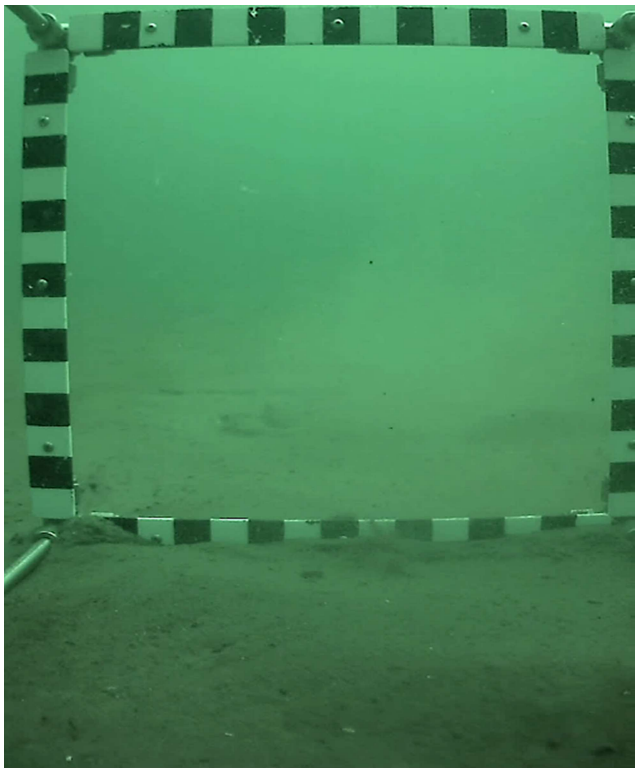
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.089942	-70.655696	43.089975	-70.655647
Water Depth (m):	7.3		7.3	
Sample Weight (g):	87.0		111.2	
Date Collected, Analyzed:	8/1/2017	12/9/2017	8/1/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Sand	
Subgroup:	Slightly Granuley Fine Sand		Fine Sand	
Gradistat Results				
Textural Group (GSM):	Slightly Gravelly Sand		Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Fine Sand		Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Fine Sand		Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.1		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.1		0.0	
Sand %:	99.1		99.1	
Mud %:	0.8		0.9	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.74		2.74	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.86		2.90	
Mean size (mm):	0.14		0.13	
Sorting (phi):	0.371		0.350	
Skewness (phi):	0.083		0.129	
Kurtosis (phi):	1.108		0.908	
D_{10} (phi):	2.48		2.5	
D_{10} (mm):	0.18		0.18	
D_{50} (phi):	2.82		2.86	
D_{50} (mm):	0.14		0.14	
LOI % (450°C):	0.4		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.11		0.00	
-1	0.04		0.04	
-0.5	0.03		0.00	
0	0.02		0.02	
0.5	0.04		0.03	
1	0.12		0.09	
1.5	0.25		0.19	
2	1.73		0.44	
2.5	7.17		5.76	
3	61.30		59.76	
3.5	25.63		29.56	
4	2.80		3.23	
>4	0.75		0.88	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

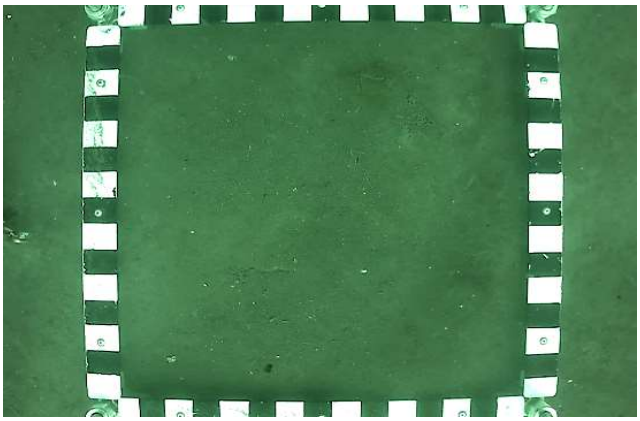
GSH12-T51



	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.055253	-70.623333	43.055192	-70.623168
Water Depth (m):	33.2		33.5	
Sample Weight (g):	549.6		411.4	
Date Collected, Analyzed:	7/19/2017	12/9/2017	7/19/2017	12/9/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Muddy Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Muddy Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Muddy Sandy Fine Gravel		Sandy Medium Gravel	
Mean Size:	Very Fine Gravel		Very Fine Gravel	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Muddy Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Granule Gravel		Granule Gravel	
Statistics				
Gravel %:	69.5		57.9	
Pebble %:	52.4		43.1	
Granule %:	17.1		14.8	
Sand %:	27.2		38.6	
Mud %:	3.3		3.5	
Silt %:	1.9		2.0	
Clay %:	1.4		1.5	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	-3.24		-2.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-1.51		-1.10	
Mean size (mm):	2.86		2.15	
Sorting (phi):	2.053		2.324	
Skewness (phi):	0.450		0.276	
Kurtosis (phi):	1.052		0.790	
D_{10} (phi):	-3.49		-3.75	
D_{10} (mm):	11.27		13.42	
D_{50} (phi):	-2.11		-1.57	
D_{50} (mm):	4.32		2.97	
LOI % (450°C):	0.7		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	2.80		6.63	
-3.5	7.33		6.83	
-3	17.43		13.24	
-2.5	14.29		8.31	
-2	10.59		8.07	
-1.5	9.97		8.33	
-1	7.14		6.47	
-0.5	5.62		6.53	
0	3.43		5.06	
0.5	2.98		4.81	
1	3.09		4.86	
1.5	2.25		3.50	
2	2.91		4.20	
2.5	4.13		6.13	
3	1.98		2.64	
3.5	0.47		0.53	
4	0.32		0.34	
>4	N/A		N/A	
5	0.75		0.80	
6	0.49		0.63	
7	0.32		0.33	
8	0.28		0.27	
9	0.28		0.28	
10	0.70		0.61	
Smaller than 10	0.45		0.61	

GSH13-T11





Sample 1

Station Information

Latitude, Longitude:	43.024318	-70.713641
Water Depth (m):	13.4	
Sample Weight (g):	123.7	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

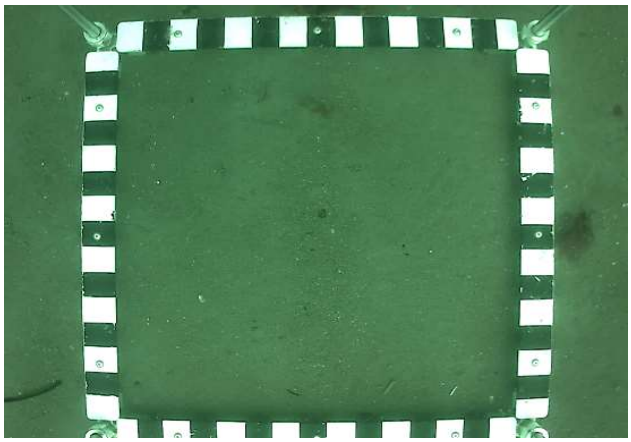
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.6
Mud %:	2.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.03
Mean size (mm):	0.12
Sorting (phi):	0.408
Skewness (phi):	-0.065
Kurtosis (phi):	1.003
D_{10} (phi):	2.53
D_{10} (mm):	0.17
D_{50} (phi):	3.06
D_{50} (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.08
0	0.14
0.5	0.16
1	0.24
1.5	0.42
2	0.90
2.5	3.88
3	37.82
3.5	47.81
4	6.19
>4	2.35
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T13

Sample 1



Station Information

Latitude, Longitude:	43.022075	-70.719898
Water Depth (m):	11.0	
Sample Weight (g):	144.4	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

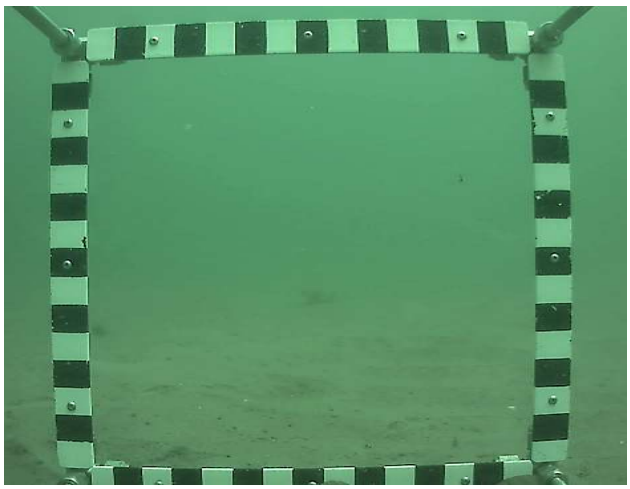
Statistics

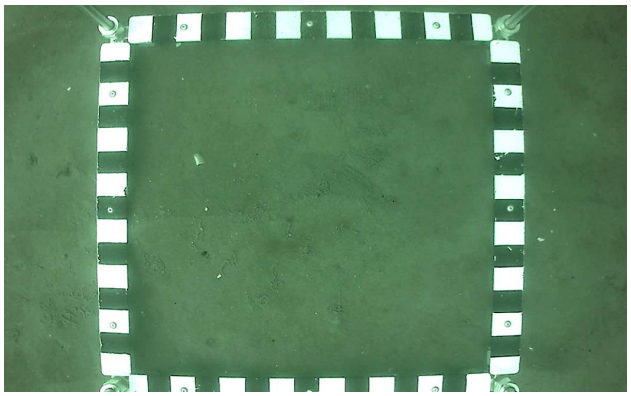
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.2
Mud %:	2.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.99
Mean size (mm):	0.13
Sorting (phi):	0.500
Skewness (phi):	-0.094
Kurtosis (phi):	1.114
D_{10} (phi):	2.32
D_{10} (mm):	0.20
D_{50} (phi):	3.03
D_{50} (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.03
-0.5	0.01
0	0.04
0.5	0.07
1	0.23
1.5	0.69
2	2.85
2.5	9.05
3	34.92
3.5	40.26
4	9.09
>4	2.76
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T14

Sample 1





Station Information

Latitude, Longitude:	43.020354	-70.722841
Water Depth (m):	9.4	
Sample Weight (g):	123.9	
Date Collected, Analyzed:	7/17/2017	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

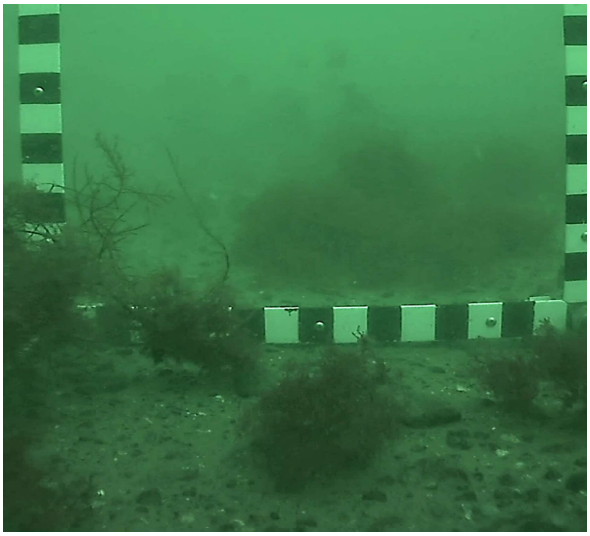
Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

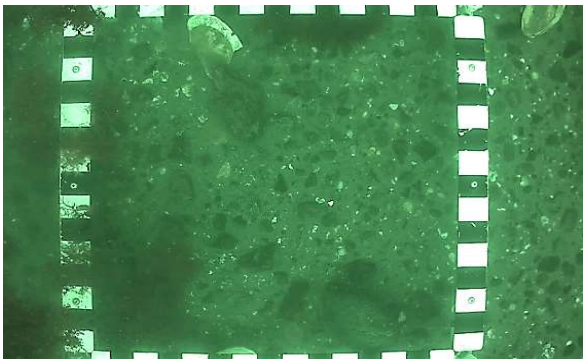
Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	98.0
Mud %:	1.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.99
Mean size (mm):	0.13
Sorting (phi):	0.490
Skewness (phi):	-0.138
Kurtosis (phi):	1.104
D_{10} (phi):	2.32
D_{10} (mm):	0.20
D_{50} (phi):	3.04
D_{50} (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.06
-1	0.01
-0.5	0.03
0	0.08
0.5	0.13
1	0.42
1.5	0.72
2	2.67
2.5	8.86
3	33.80
3.5	42.50
4	8.82
>4	1.90
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH13-T15

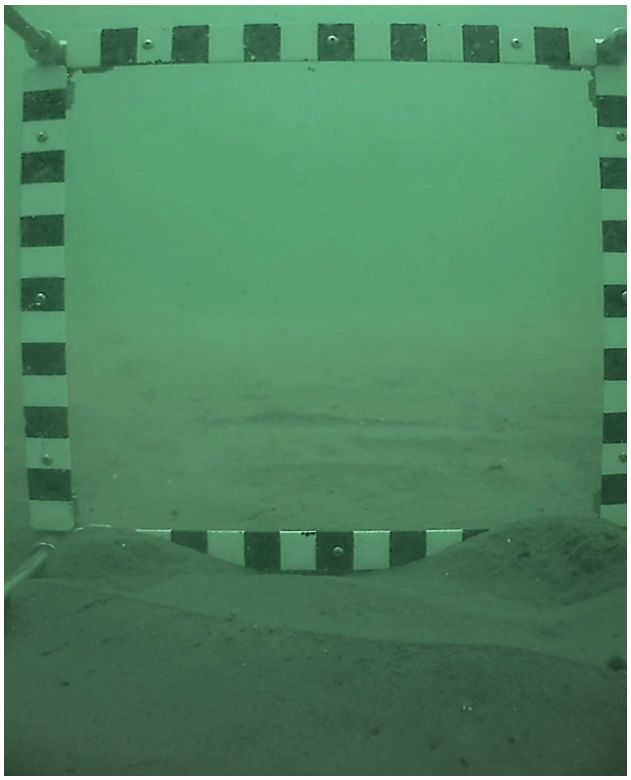


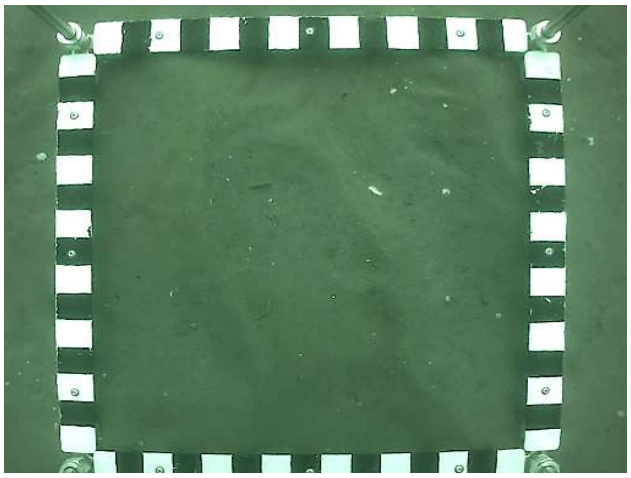


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.017187	-70.719325	43.017226	-70.719428
Water Depth (m):	15.5		15.5	
Sample Weight (g):	281.5		421.3	
Date Collected, Analyzed:	7/17/2017	5/2/2018	7/17/2017	5/2/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Pebble Mixes	
Subgroup:	Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Coarse Gravel		Sandy Medium Gravel	
Mean Size:	Medium Gravel		Very Fine Gravel	
Sorting:	Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Pebble Gravel		Pebble Gravel	
Statistics				
Gravel %:	92.0		65.5	
Pebble %:	90.1		57.71	
Granule %:	1.9		7.74	
Sand %:	7.4		33.1	
Mud %:	0.7		1.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Bimodal	
Mode 1 (phi):	-4.24		-4.73	
Mode 2 (phi):	N/A		2.74	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-3.78		-1.54	
Mean size (mm):	13.75		2.91	
Sorting (phi):	1.349		2.952	
Skewness (phi):	0.537		0.498	
Kurtosis (phi):	2.070		0.664	
D_{10} (phi):	-4.72		-4.64	
D_{10} (mm):	26.32		24.93	
D_{50} (phi):	-3.99		-2.72	
D_{50} (mm):	15.93		6.58	
LOI % (450°C):	N/A		0.4	
Size Distribution (phi)				
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	18.96		14.59	
-4	30.84		7.81	
-3.5	16.69		13.53	
-3	14.88		10.86	
-2.5	6.33		5.83	
-2	2.35		5.09	
-1.5	0.96		4.06	
-1	0.93		3.69	
-0.5	0.73		3.16	
0	0.70		1.99	
0.5	0.68		1.88	
1	0.76		2.05	
1.5	0.69		2.08	
2	0.82		3.58	
2.5	0.63		3.58	
3	1.02		7.32	
3.5	0.97		5.95	
4	0.36		1.52	
>4	0.67		1.44	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH13-T17

Sample 1





Station Information

Latitude, Longitude:	43.014386	-70.726680
Water Depth (m):	8.5	
Sample Weight (g):	89.5	
Date Analyzed:	7/17/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

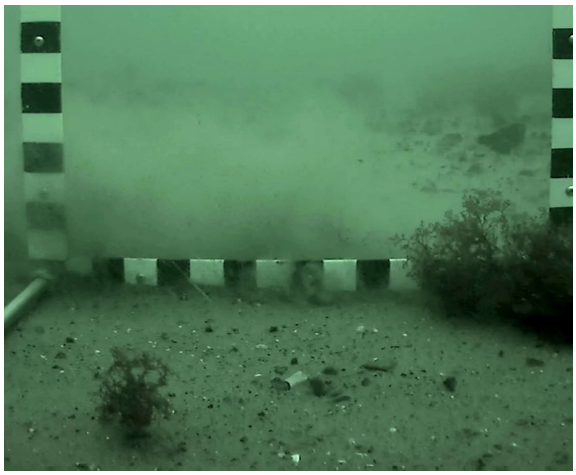
Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

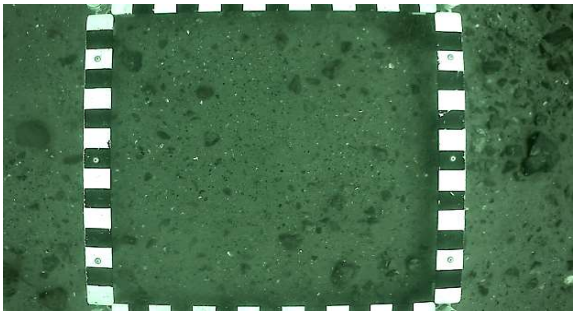
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.6
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.95
Mean size (mm):	0.13
Sorting (phi):	0.434
Skewness (phi):	0.011
Kurtosis (phi):	1.034
D_{10} (phi):	2.48
D_{10} (mm):	0.18
D_{50} (phi):	2.94
D_{50} (mm):	0.13
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.04
0	0.09
0.5	0.20
1	0.46
1.5	0.44
2	1.25
2.5	7.26
3	45.84
3.5	37.04
4	6.00
>4	1.34
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH14-T14





GSH14-T14-S1

GSH14-T14-S2

Station Information

	Sample 1		Sample 2	
Latitude, Longitude:	42.983649	-70.738158	42.983600	-70.738090
Water Depth (m):	15.8		15.8	
Sample Weight (g):	581.6		357.8	
Date Collected, Analyzed:	7/18/2017	5/16/2018	7/18/2017	5/16/2018

CMECS Classifications

	Sample 1	Sample 2
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate	Coarse Unconsol. Substrate
Group:	Pebble Mixes	Pebble Mixes
Subgroup:	Sandy Pebble Gravel	Sandy Pebble Gravel

Gradistat Results

	Sample 1	Sample 2
Textural Group (GSM):	Sandy Gravel	Sandy Gravel
Textural Group (SZC):	N/A	N/A
Sediment Name:	Sandy Medium Gravel	Sandy Medium Gravel
Mean Size:	Very Fine Gravel	Fine Gravel
Sorting:	Very Poorly Sorted	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

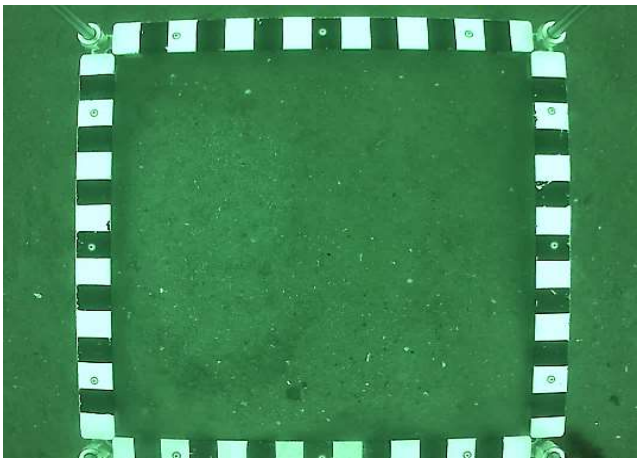
	Sample 1	Sample 2
Sediment Name:	Sandy Pebble Gravel	Sandy Pebble Gravel
Mean Size:	Pebble Gravel	Pebble Gravel

Statistics

	Sample 1	Sample 2
Gravel %:	60.1	68.2
Pebble %:	53.6	58.0
Granule %:	6.5	10.2
Sand %:	38.5	31.2
Mud %:	1.4	0.6
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Trimodal	Bimodal
Mode 1 (phi):	-3.74	-3.74
Mode 2 (phi):	-0.24	-0.24
Mode 3 (phi):	3.24	N/A
Mean size (phi):	-1.83	-2.54
Mean size (mm):	3.57	5.80
Sorting (phi):	2.364	1.878
Skewness (phi):	0.412	0.257
Kurtosis (phi):	0.823	0.676
D_{10} (phi):	-4.20	-4.69
D_{10} (mm):	18.39	25.78
D_{50} (phi):	-2.40	-2.90
D_{50} (mm):	5.26	7.44
LOI % (450°C):	0.6	0.3

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	2.84	17.02
-4	12.24	0.00
-3.5	15.61	22.02
-3	13.36	10.08
-2.5	5.12	4.26
-2	4.44	4.60
-1.5	3.43	4.43
-1	3.07	5.79
-0.5	4.73	9.06
0	8.10	11.44
0.5	7.95	6.98
1	4.24	1.47
1.5	2.24	0.32
2	1.34	0.17
2.5	1.06	0.13
3	2.90	0.38
3.5	4.78	0.85
4	1.16	0.38
>4	1.38	0.61
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

GSH14-T15



GSH14-T15-S1

GSH14-T15-S1

Sample 1

Station Information

Latitude, Longitude:	42.982267	-70.736127
Water Depth (m):	18.9	
Sample Weight (g):	157.9	
Date Analyzed:	7/18/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

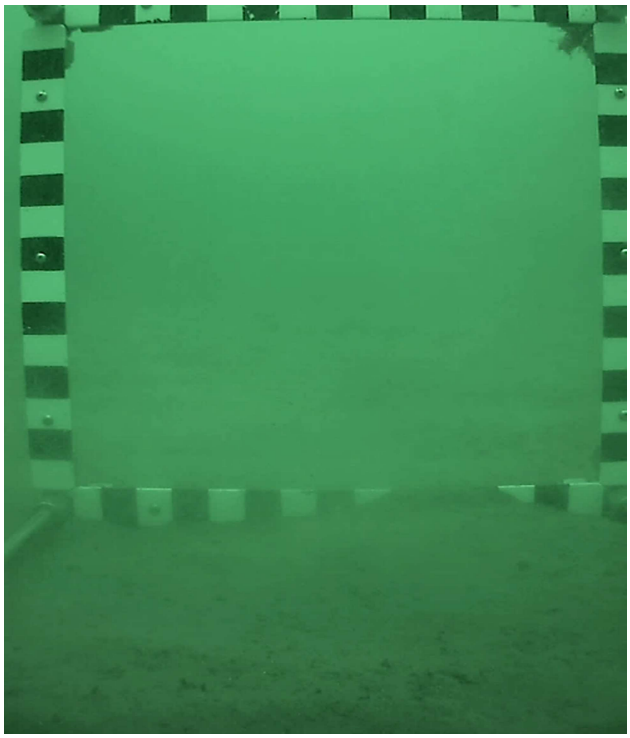
Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

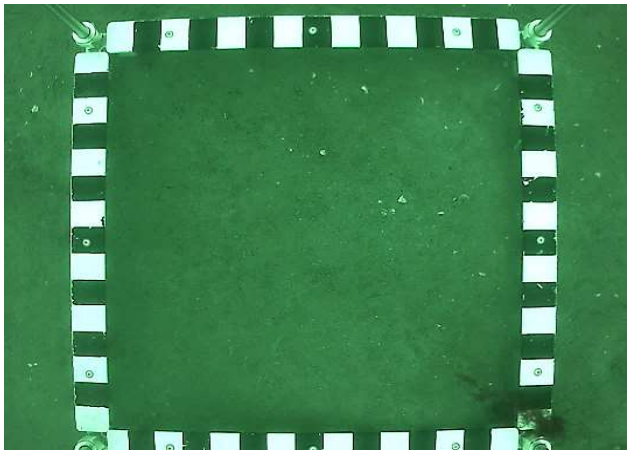
Statistics

Gravel %:	6.8
Pebble %:	5.2
Granule %:	1.6
Sand %:	88.4
Mud %:	4.8
Silt %:	3.6
Clay %:	1.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.59
Mean size (mm):	0.17
Sorting (phi):	1.373
Skewness (phi):	-0.467
Kurtosis (phi):	2.042
D_{10} (phi):	0.61
D_{10} (mm):	0.66
D_{50} (phi):	2.79
D_{50} (mm):	0.14
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.04
-2.5	2.85
-2	1.32
-1.5	0.84
-1	0.78
-0.5	1.01
0	0.88
0.5	0.97
1	1.35
1.5	3.30
2	9.64
2.5	11.67
3	23.93
3.5	28.60
4	7.04
>4	N/A
5	2.85
6	0.39
7	0.18
8	0.14
9	0.14
10	0.18
Smaller than 10	0.87

GSH14-T16





Sample 1

Station Information

Latitude, Longitude:	42.978441	-70.736979
Water Depth (m):	19.8	
Sample Weight (g):	166.0	
Date Collected, Analyzed:	7/18/2017	5/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

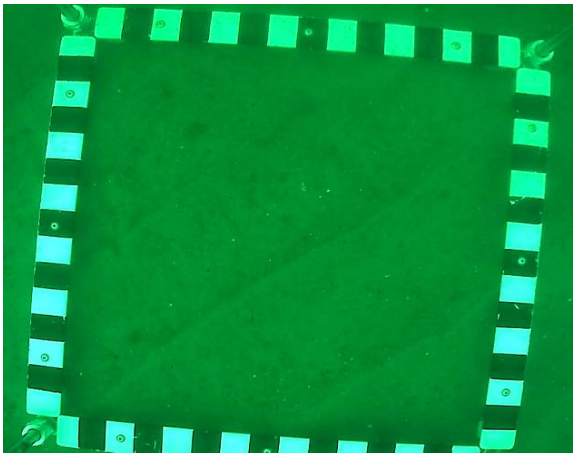
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

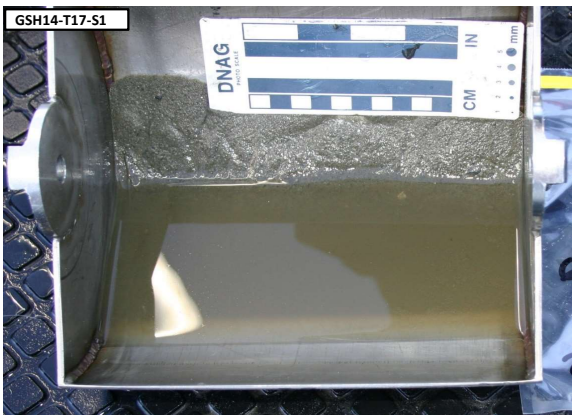
Statistics

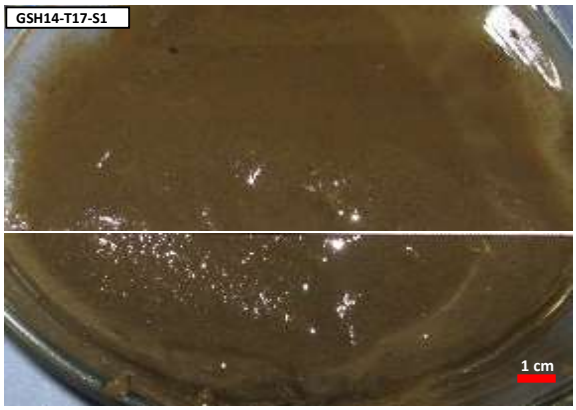
Gravel %:	2.6
Pebble %:	2.5
Granule %:	0.1
Sand %:	95.9
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.46
Mean size (mm):	0.18
Sorting (phi):	0.798
Skewness (phi):	-0.200
Kurtosis (phi):	1.014
D_{10} (phi):	1.35
D_{10} (mm):	0.39
D_{50} (phi):	2.52
D_{50} (mm):	0.17
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.34
-3	0.92
-2.5	0.23
-2	0.00
-1.5	0.09
-1	0.01
-0.5	0.08
0	0.24
0.5	0.71
1	2.24
1.5	5.84
2	14.85
2.5	21.24
3	26.20
3.5	21.51
4	3.00
>4	1.49
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH14-T17

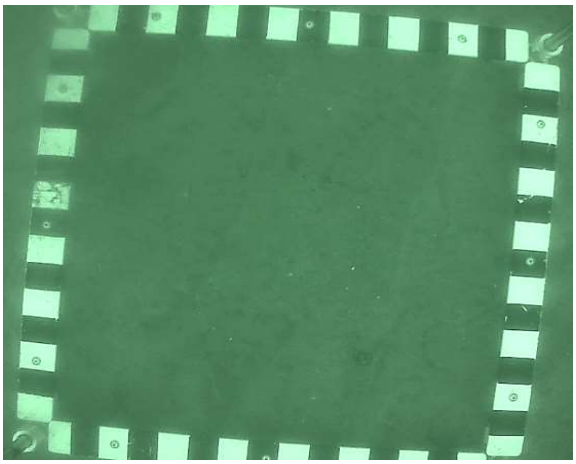


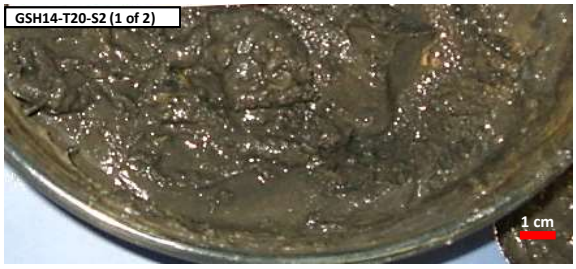




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.977165	-70.740457	42.977288	-70.740452
Water Depth (m):	19.2		19.2	
Sample Weight (g):	45.5		255.1	
Date Collected, Analyzed:	11/1/2016	5/30/2017	11/1/2016	6/5/17, 5/16/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Slightly Pebbly		Pebbly	
Subgroup:	Slightly Pebbly Muddy Fine Sand		Pebbly Fine Sand	
Gradistat Results				
Textural Group (GSM):	Slightly Gravelly Muddy Sand		Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Fine Gravelly Muddy Fine Sand		Medium Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Poorly Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Pebbly Muddy Fine Sand		Pebbly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	1.9		6.8	
Pebble %:	1.7		6.2	
Granule %:	0.1		0.6	
Sand %:	84.9		88.6	
Mud %:	13.2		4.6	
Silt %:	N/A		3.4	
Clay %:	N/A		1.2	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.63		2.54	
Mean size (mm):	0.16		0.17	
Sorting (phi):	1.905		1.434	
Skewness (phi):	0.369		-0.355	
Kurtosis (phi):	2.697		2.165	
D_{10} (phi):	1.36		1.11	
D_{10} (mm):	0.39		0.46	
D_{50} (phi):	2.55		2.61	
D_{50} (mm):	0.17		0.16	
LOI % (450°C):	1.8		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		3.46	
-3	0.00		0.96	
-2.5	1.67		0.75	
-2	0.05		1.06	
-1.5	0.00		0.23	
-1	0.14		0.38	
-0.5	0.21		0.30	
0	0.45		0.34	
0.5	0.83		0.51	
1	2.44		1.21	
1.5	5.82		3.59	
2	15.61		13.01	
2.5	20.85		19.39	
3	12.60		18.89	
3.5	20.91		24.66	
4	5.18		6.69	
>4	N/A		N/A	
5	2.20		2.70	
6	1.78		0.41	
7	1.30		0.12	
8	1.09		0.13	
9	0.77		0.11	
10	0.83		0.21	
Smaller than 10	5.08		0.89	

GSH14-T20

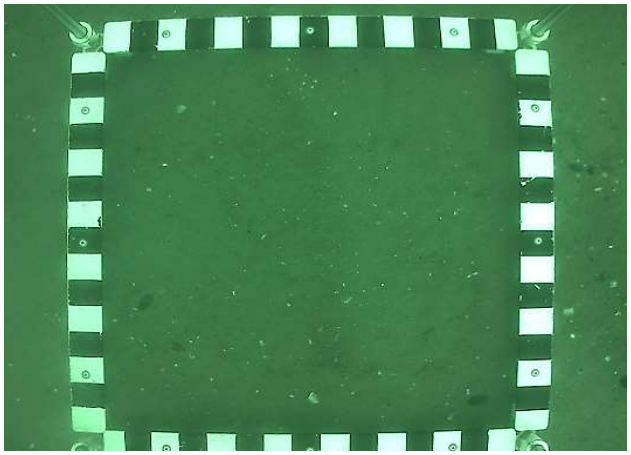


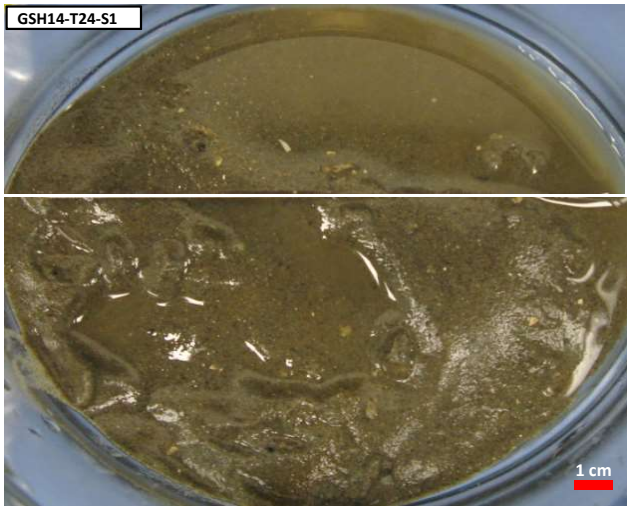


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.974777	-70.749365	42.974750	-70.748936
Water Depth (m):	17.4		18.0	
Sample Weight (g):	35.9		176.0	
Date Collected, Analyzed:	11/1/2016	6/5/2017	11/1/2016	5/25/17, 6/5/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Granuley	
Subgroup:	Slightly Granuley Muddy Sand		Slightly Granuley Muddy Sand	
Gradistat Results				
Textural Group (GSM):	Slightly Gravelly Muddy Sand		Slightly Gravelly Muddy Sand	
Textural Group (SZC):	Silty Sand		Silty Sand	
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand		Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Moderately Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand		Slightly Granular Very Coarse Silty Fine Sand	
Mean Size:	Very Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.9		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.9		0.0	
Sand %:	88.4		58.1	
Mud %:	10.7		41.9	
Silt %:	7.9		37.6	
Clay %:	2.9		4.3	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.22		3.94	
Mean size (mm):	0.11		0.07	
Sorting (phi):	0.798		1.136	
Skewness (phi):	-0.060		0.326	
Kurtosis (phi):	1.886		1.409	
D_{10} (phi):	2.20		2.91	
D_{10} (mm):	0.22		0.13	
D_{50} (phi):	3.27		3.81	
D_{50} (mm):	0.10		0.07	
LOI % (450°C):	1.49		1.44	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.59		0.02	
-1	0.29		0.01	
-0.5	0.32		0.09	
0	0.34		0.07	
0.5	0.35		0.05	
1	0.66		0.11	
1.5	1.35		0.25	
2	3.08		0.97	
2.5	7.35		2.44	
3	11.73		7.24	
3.5	42.84		23.67	
4	20.38		23.17	
>4	N/A		N/A	
5	7.35		28.87	
6	0.38		6.86	
7	0.08		1.11	
8	0.04		0.77	
9	0.19		0.73	
10	0.53		1.02	
Smaller than 10	2.14		2.52	

GSH14-T24

Sample 1





Station Information

Latitude, Longitude:	42.979850	-70.745290
Water Depth (m):	14.9	
Sample Weight (g):	93.9	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

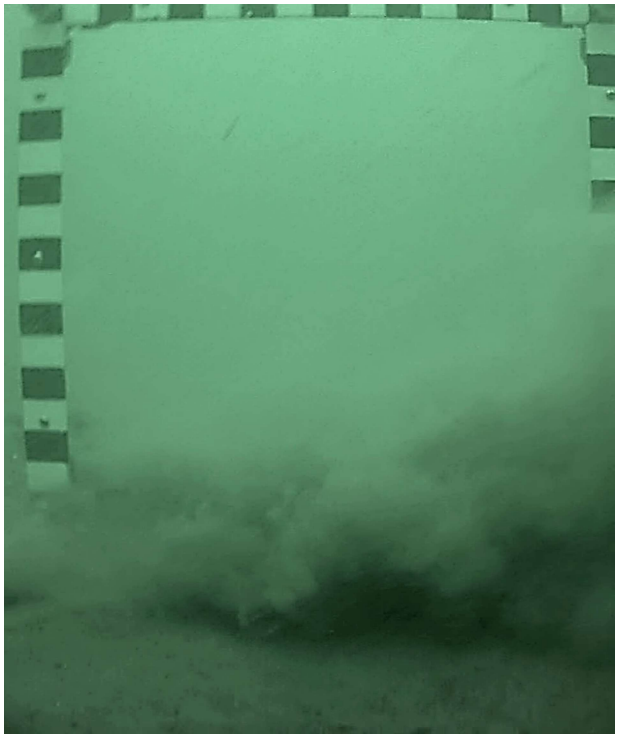
Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Fine Sand

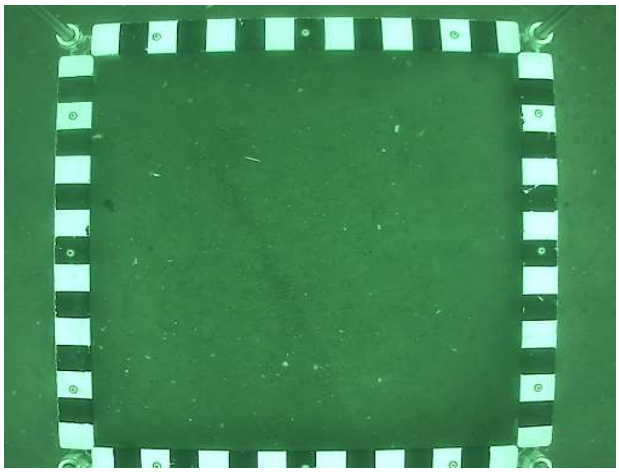
Statistics

Gravel %:	1.8
Pebble %:	0.9
Granule %:	0.9
Sand %:	93.0
Mud %:	5.2
Silt %:	4.2
Clay %:	1.0
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.69
Mean size (mm):	0.15
Sorting (phi):	0.885
Skewness (phi):	-0.237
Kurtosis (phi):	1.075
D_{10} (phi):	1.52
D_{10} (mm):	0.35
D_{50} (phi):	2.84
D_{50} (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.88
-1.5	0.75
-1	0.20
-0.5	0.41
0	0.56
0.5	0.77
1	1.54
1.5	4.21
2	11.65
2.5	14.81
3	20.60
3.5	28.86
4	9.53
>4	N/A
5	3.69
6	0.30
7	0.14
8	0.11
9	0.15
10	0.24
Smaller than 10	0.59

GSH14-T35





Sample 1

Station Information

Latitude, Longitude:	42.979467	-70.742292
Water Depth (m):	16.5	
Sample Weight (g):	114.7	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Muddy Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand
Textural Group (SZC):	Silty Sand
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

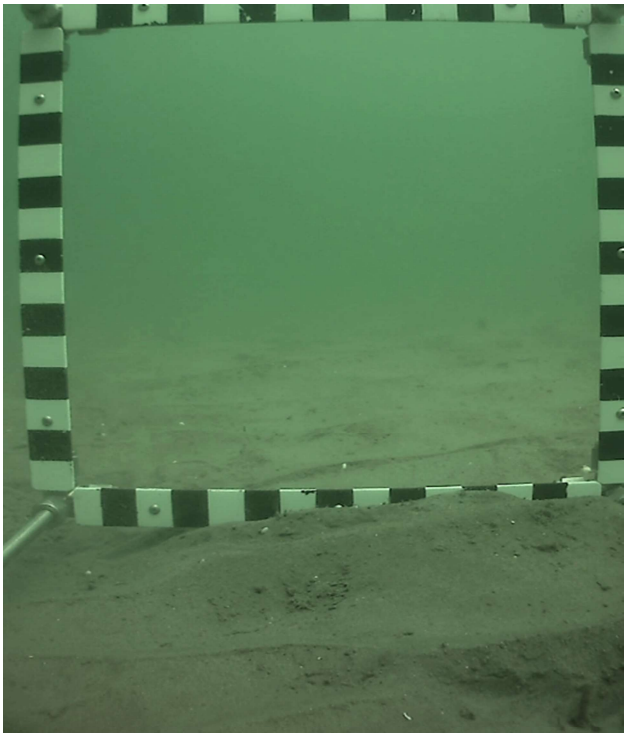
Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand
Mean Size:	Very Fine Sand

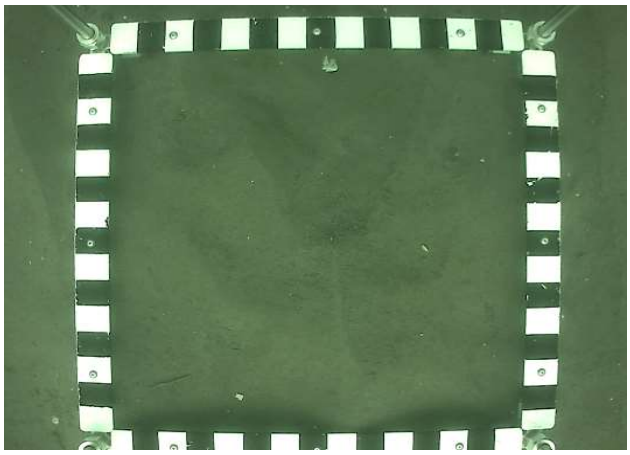
Statistics

Gravel %:	0.4
Pebble %:	0.1
Granule %:	0.3
Sand %:	78.3
Mud %:	21.4
Silt %:	19.6
Clay %:	1.8
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.39
Mean size (mm):	0.10
Sorting (phi):	1.042
Skewness (phi):	0.112
Kurtosis (phi):	1.502
D_{10} (phi):	2.09
D_{10} (mm):	0.24
D_{50} (phi):	3.31
D_{50} (mm):	0.10
LOI % (450°C):	0.9

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.09
-1.5	0.20
-1	0.10
-0.5	0.28
0	0.27
0.5	0.36
1	0.63
1.5	1.69
2	5.11
2.5	7.11
3	12.75
3.5	32.33
4	17.74
>4	N/A
5	14.67
6	4.21
7	0.41
8	0.27
9	0.33
10	0.50
Smaller than 10	0.96

GSH14-T36





Sample 1

Station Information

Latitude, Longitude:	42.979925	-70.752487
Water Depth (m):	8.2	
Sample Weight (g):	137.8	
Date Collected, Analyzed:	7/18/2017	6/5/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

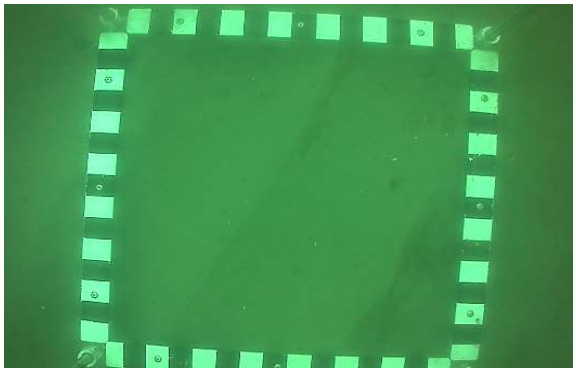
Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

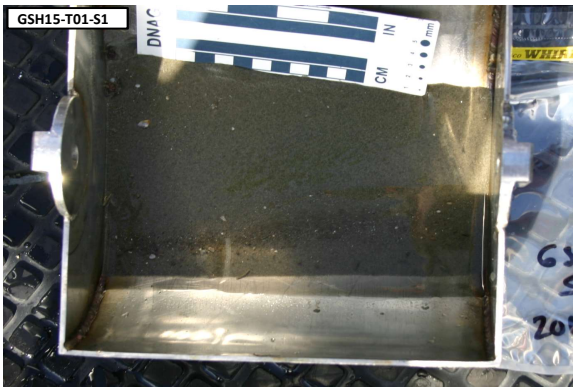
Statistics

Gravel %:	0.5
Pebble %:	0.5
Granule %:	0.0
Sand %:	96.2
Mud %:	3.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.10
Mean size (mm):	0.12
Sorting (phi):	0.533
Skewness (phi):	-0.167
Kurtosis (phi):	1.303
D_{10} (phi):	2.50
D_{10} (mm):	0.18
D_{50} (phi):	3.14
D_{50} (mm):	0.11
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.48
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.08
0.5	0.24
1	0.59
1.5	1.21
2	2.56
2.5	3.68
3	27.25
3.5	45.66
4	14.93
>4	3.30
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

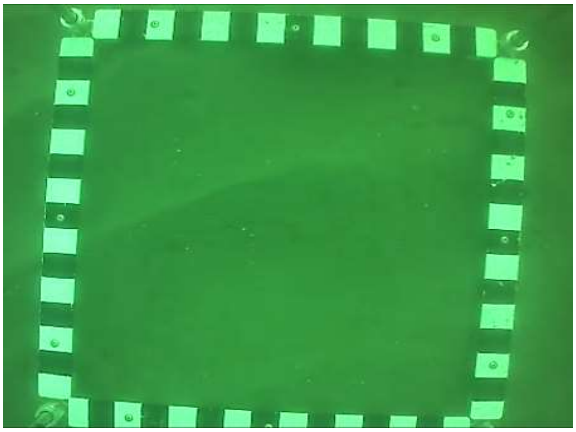
GSH15-T01



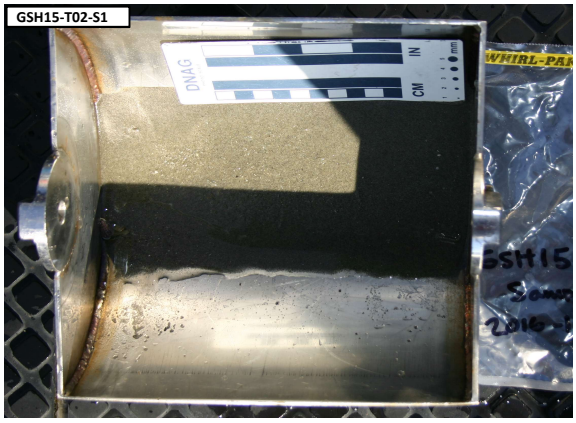


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.930871	-70.790805	42.930622	-70.791069
Water Depth (m):	7.6		7.6	
Sample Weight (g):	201.6		21.5	
Date Collected, Analyzed:	11/1/2016	5/30, 5/31/17, 6/5/2018	11/1/2016	6/1/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Pebbly	
Subgroup:	Slightly Granuley Very Fine Sand		Slightly Pebbly Very Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand		Slightly Fine Gravelly Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Very Fine Sand		Slightly Pebbly Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.1		1.5	
Pebble %:	0.0		0.7	
Granule %:	0.1		0.7	
Sand %:	97.7		96.2	
Mud %:	2.3		2.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.12		3.12	
Mean size (mm):	0.11		0.12	
Sorting (phi):	0.394		0.466	
Skewness (phi):	-0.106		-0.255	
Kurtosis (phi):	1.197		1.637	
D_{10} (phi):	2.60		2.52	
D_{10} (mm):	0.17		0.17	
D_{50} (phi):	3.18		3.19	
D_{50} (mm):	0.11		0.11	
LOI % (450°C):	0.5		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.74	
-1.5	0.04		0.62	
-1	0.04		0.09	
-0.5	0.09		0.09	
0	0.06		0.28	
0.5	0.11		0.34	
1	0.15		0.46	
1.5	0.23		0.50	
2	0.71		1.15	
2.5	2.68		4.04	
3	24.97		18.71	
3.5	56.13		57.92	
4	12.52		12.69	
>4	2.26		2.37	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH15-T02



GSH15-T02-S1



GSH15-T02-S1

GSH15-T02-S2

	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.926577	-70.790042	42.926825	-70.790057
Water Depth (m):	8.8		8.8	
Sample Weight (g):	79.5		62.5	
Date Collected, Analyzed:	11/1/2016	6/5/2018	11/1/2016	5/31/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Sand	
Subgroup:	Fine Sand		Very Fine Sand	
Gradistat				
Textural Group (GSM):	Sand		Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Fine Sand		Very Fine Sand	
Mean Size:	Fine Sand		Very Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Fine Sand		Very Fine Sand	
Mean Size:	Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.0		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.0	
Sand %:	98.7		98.0	
Mud %:	1.3		2.0	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.95		3.01	
Mean size (mm):	0.13		0.12	
Sorting (phi):	0.443		0.474	
Skewness (phi):	-0.014		-0.161	
Kurtosis (phi):	1.004		1.089	
D_{10} (phi):	2.38		2.38	
D_{10} (mm):	0.19		0.19	
D_{50} (phi):	2.95		3.07	
D_{50} (mm):	0.13		0.12	
LOI % (450°C):	0.4		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.00		0.00	
-1	0.00		0.00	
-0.5	0.00		0.09	
0	0.02		0.05	
0.5	0.04		0.25	
1	0.12		0.24	
1.5	0.33		0.29	
2	0.80		1.35	
2.5	10.78		9.60	
3	42.16		31.05	
3.5	38.08		46.29	
4	6.38		8.77	
>4	1.30		2.02	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH15-T05

GSH15-T05-S1

GSH15-T05-S1

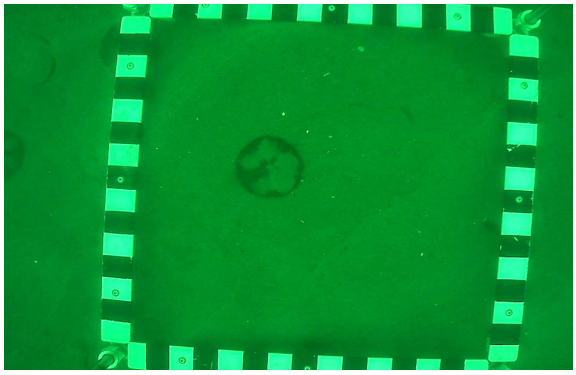
GSH15-T05-S2

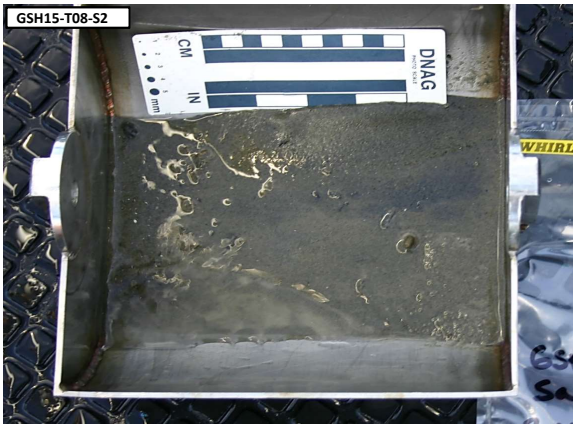
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.947430	-70.775635	42.947053	-70.775637
Water Depth (m):	13.1		13.7	
Sample Weight (g):	119.0		59.3	
Date Collected, Analyzed:	11/1/2016	6/11/2018	11/1/2016	5/25/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Sand	
Subgroup:	Very Fine Sand		Very Fine Sand	
Gradistat				
Textural Group (GSM):	Sand		Sand	
Textural Group (SZC):	Sand		Sand	
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Moderately Well Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Very Fine Sand		Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.0		0.0	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.0	
Sand %:	93.3		94.0	
Mud %:	6.8		6.0	
Silt %:	5.9		4.8	
Clay %:	0.8		1.2	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.12		3.12	
Mean size (mm):	0.12		0.12	
Sorting (phi):	0.569		0.587	
Skewness (phi):	0.086		0.038	
Kurtosis (phi):	1.292		1.189	
D_{10} (phi):	2.51		2.45	
D_{10} (mm):	0.18		0.18	
D_{50} (phi):	3.12		3.11	
D_{50} (mm):	0.12		0.12	
LOI % (450°C):	0.6		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.00		0.00	
-1	0.00		0.01	
-0.5	0.01		0.02	
0	0.02		0.03	
0.5	0.03		0.08	
1	0.13		0.07	
1.5	0.30		0.30	
2	1.55		2.11	
2.5	5.57		7.70	
3	32.69		30.93	
3.5	39.85		36.69	
4	13.10		16.08	
>4	N/A		N/A	
5	5.24		4.44	
6	0.41		0.32	
7	0.16		0.02	
8	0.12		0.03	
9	0.03		0.03	
10	0.14		0.14	
Smaller than 10	0.64		1.00	

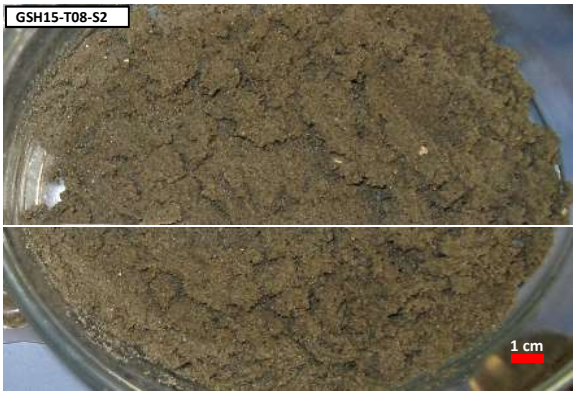
GSH15-T07

	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.935006	-70.767757	42.935032	-70.768204
Water Depth (m):	21.9		21.9	
Sample Weight (g):	270.6		294.3	
Date Collected, Analyzed:	10/6/2016	5/22/17, 2/21/18	10/6/2016	5/22/17, 6/11/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Granuley		Slightly Granuley	
Subgroup:	Granuley Very Coarse Sand		Slightly Granuley Coarse Sand	
Gradistat				
Textural Group (GSM):	Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Very Fine Gravelly Very Coarse Sand		Slightly Very Fine Gravelly Coarse Sand	
Mean Size:	Very Coarse Sand		Coarse Sand	
Sorting:	Moderately Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Granular Very Coarse Sand		Slightly Granular Coarse Sand	
Mean Size:	Very Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	8.3		1.2	
Pebble %:	2.6		0.3	
Granule %:	5.8		0.9	
Sand %:	90.8		97.9	
Mud %:	0.9		0.9	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	-0.24		0.25	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-0.13		0.17	
Mean size (mm):	1.10		0.89	
Sorting (phi):	0.822		0.641	
Skewness (phi):	0.159		0.204	
Kurtosis (phi):	1.544		1.349	
D_{10} (phi):	-0.95		-0.47	
D_{10} (mm):	1.94		1.38	
D_{50} (phi):	-0.17		0.11	
D_{50} (mm):	1.12		0.92	
LOI % (450°C):	0.5		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.51		0.00	
-3	1.06		0.00	
-2.5	0.36		0.20	
-2	0.62		0.11	
-1.5	1.45		0.17	
-1	4.30		0.70	
-0.5	18.96		7.60	
0	34.62		33.08	
0.5	21.33		35.29	
1	6.58		12.75	
1.5	3.21		4.52	
2	2.99		2.70	
2.5	1.66		1.08	
3	0.96		0.57	
3.5	0.35		0.22	
4	0.17		0.10	
>4	0.87		0.90	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH15-T08

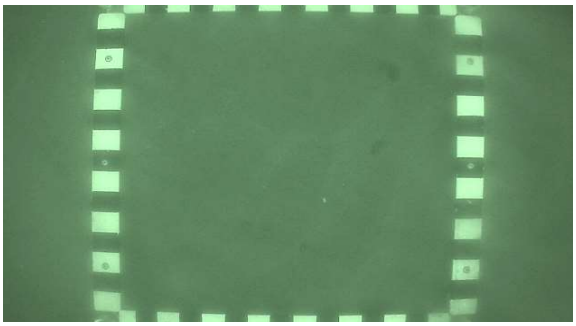


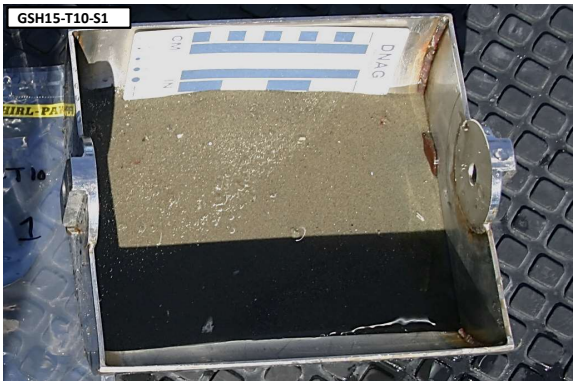




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.932906	-70.773033	42.932895	-70.772589
Water Depth (m):	20.1		20.1	
Sample Weight (g):	207.0		156.5	
Date Collected, Analyzed:	11/1/2016	5/22/17, 6/11/18	11/1/2016	5/25/17, 2/21/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Granuley	
Subgroup:	Slightly Granuley Fine Sand		Slightly Granuley Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Fine Sand		Slightly Very Fine Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Fine Sand		Slightly Granular Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.0		0.1	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.1	
Sand %:	97.9		96.9	
Mud %:	2.1		3.1	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.74		2.74	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.52		2.55	
Mean size (mm):	0.17		0.17	
Sorting (phi):	0.770		0.802	
Skewness (phi):	-0.051		-0.034	
Kurtosis (phi):	1.038		1.064	
D_{10} (phi):	1.55		1.55	
D_{10} (mm):	0.34		0.34	
D_{50} (phi):	2.54		2.56	
D_{50} (mm):	0.17		0.17	
LOI % (450°C):	0.4		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.04	
-1.5	0.03		0.00	
-1	0.00		0.06	
-0.5	0.03		0.06	
0	0.23		0.24	
0.5	0.93		0.97	
1	2.07		2.20	
1.5	4.89		4.81	
2	15.70		14.68	
2.5	22.88		22.67	
3	26.77		26.19	
3.5	18.36		17.57	
4	5.98		7.46	
>4	2.11		3.05	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH15-T10

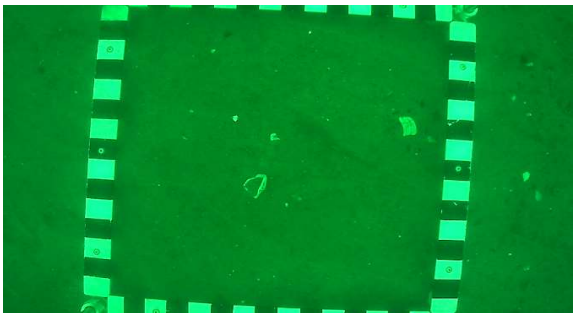


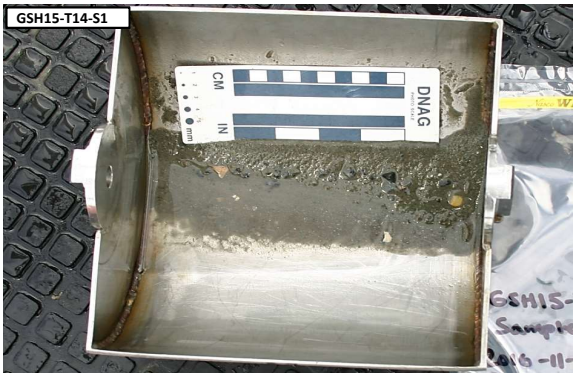


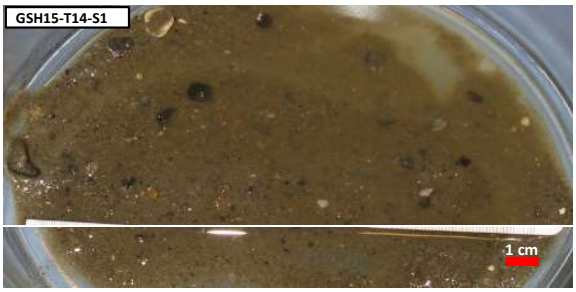
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.922464	-70.780157	42.922273	-70.779691
Water Depth (m):	15.8		15.8	
Sample Weight (g):	157.9		191.9	
Date Collected, Analyzed:	10/6/2016	5/25/17, 2/21/18	10/6/2016	5/25/17, 6/11/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Pebbly		Slightly Granuley	
Subgroup:	Slightly Pebbly Fine Sand		Slightly Granuley Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Fine Gravelly Fine Sand		Slightly Very Fine Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Well Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Pebbly Fine Sand		Slightly Granular Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.2		0.0	
Pebble %:	0.1		0.0	
Granule %:	0.0		0.0	
Sand %:	97.0		97.8	
Mud %:	2.9		2.2	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.79		2.79	
Mean size (mm):	0.14		0.14	
Sorting (phi):	0.689		0.648	
Skewness (phi):	-0.113		-0.115	
Kurtosis (phi):	1.000		1.025	
D_{10} (phi):	1.85		1.92	
D_{10} (mm):	0.28		0.26	
D_{50} (phi):	2.85		2.84	
D_{50} (mm):	0.14		0.14	
LOI % (450°C):	0.4		0.4	

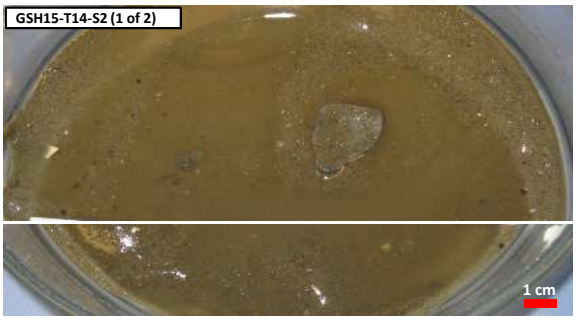
Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.12	0.00
-2	0.00	0.00
-1.5	0.02	0.01
-1	0.02	0.02
-0.5	0.04	0.01
0	0.07	0.03
0.5	0.14	0.11
1	0.74	0.50
1.5	2.49	1.87
2	9.13	8.78
2.5	17.30	17.24
3	28.10	30.63
3.5	27.96	29.84
4	10.99	8.75
>4	2.87	2.21
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

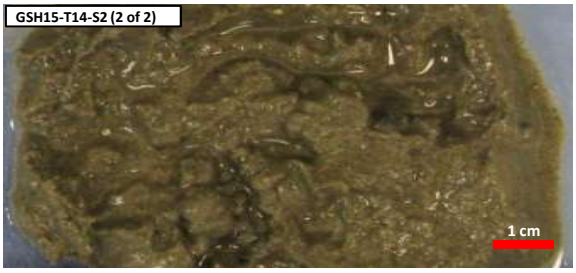
GSH15-T14







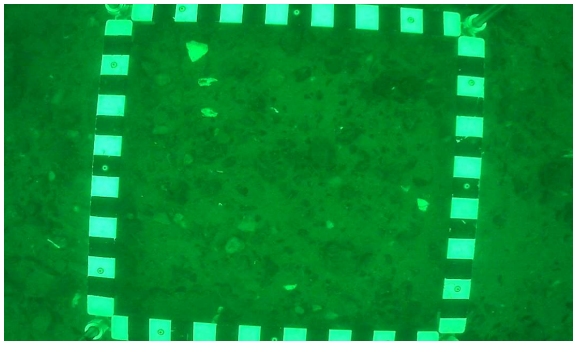


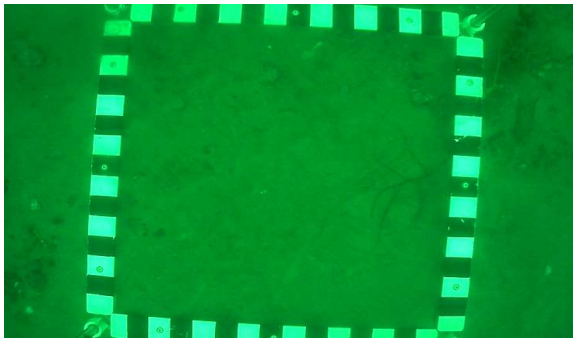


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.944763	-70.761670	42.944854	-70.761584
Water Depth (m):	23.5		23.8	
Sample Weight (g):	25.6		102.6	
Date Collected, Analyzed:	11/1/2016	6/1/2017	11/1/2016	5/31/17, 6/11/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebbly		Pebbly	
Subgroup:	Pebbly Very Fine Sand		Pebbly Muddy Sand	
Gradistat				
Textural Group (GSM):	Gravelly Sand		Gravelly Muddy Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Fine Gravelly Very Fine Sand		Coarse Gravelly Very Coarse Silty Very Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Poorly Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebbly Very Fine Sand		Pebbly Very Coarse Silty Very Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	11.6		5.1	
Pebble %:	6.3		2.9	
Granule %:	5.3		2.1	
Sand %:	84.2		83.1	
Mud %:	4.2		11.9	
Silt %:	N/A		10.1	
Clay %:	N/A		1.8	
Modes:	Bimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	-2.74		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.06		2.83	
Mean size (mm):	0.24		0.14	
Sorting (phi):	1.724		1.446	
Skewness (phi):	-0.421		-0.327	
Kurtosis (phi):	1.463		1.657	
D_{10} (phi):	-1.49		0.97	
D_{10} (mm):	2.81		0.51	
D_{50} (phi):	2.41		3.03	
D_{50} (mm):	0.19		0.12	
LOI % (450°C):	0.8		0.9	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	2.15
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	4.07	0.76
-2	2.21	0.00
-1.5	3.77	1.08
-1	1.52	1.06
-0.5	1.49	1.07
0	1.66	1.11
0.5	1.92	1.26
1	2.57	1.61
1.5	5.24	3.69
2	12.51	9.68
2.5	14.97	12.24
3	10.46	12.81
3.5	22.77	25.47
4	10.63	14.16
>4	4.22	N/A
5	N/A	8.18
6	N/A	1.32
7	N/A	0.33
8	N/A	0.28
9	N/A	0.11
10	N/A	0.18
Smaller than 10	N/A	1.47

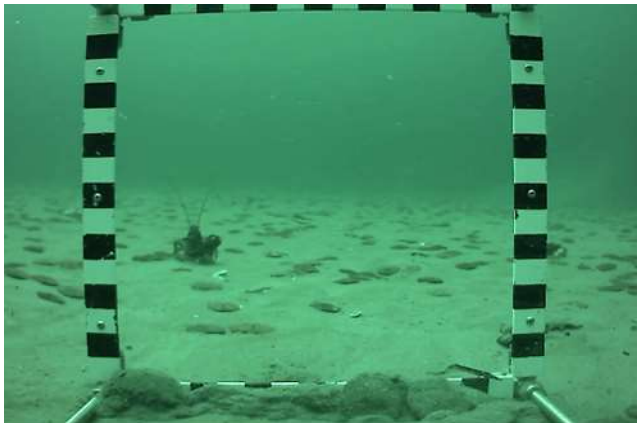
GSH15-T15

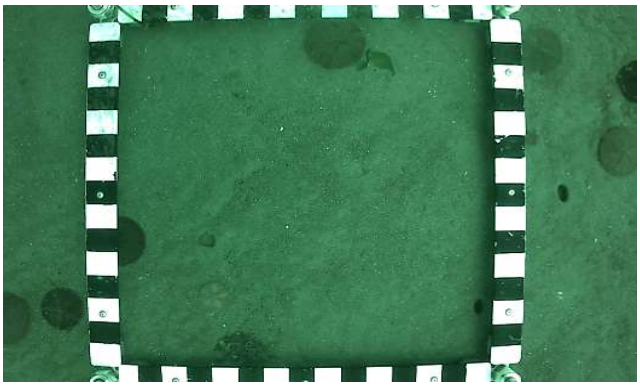


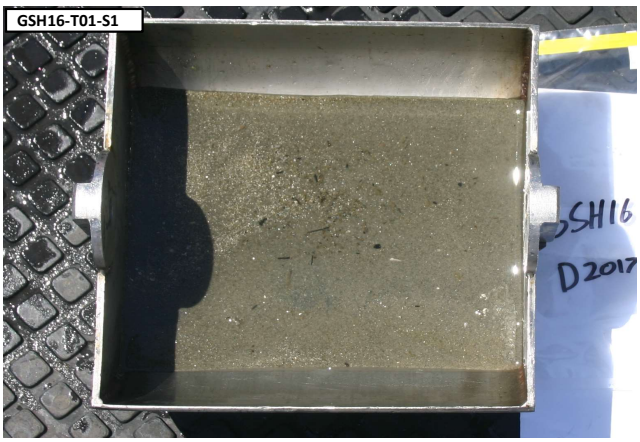


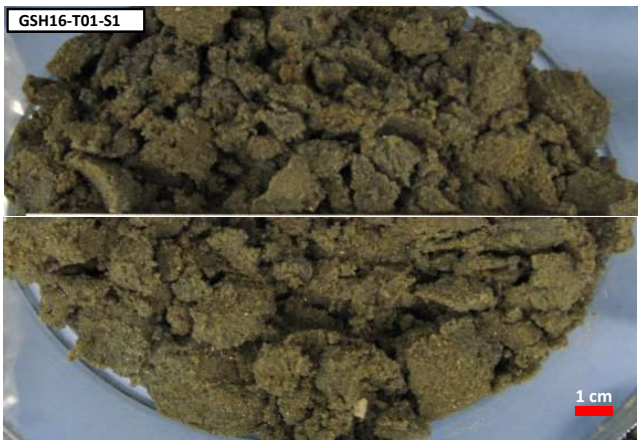
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.941103	-70.762389	42.941348	-70.762455
Water Depth (m):	82.0		25.0	
Sample Weight (g):	335.3		193.5	
Date Collected, Analyzed:	11/1/2016	5/30/2018	11/1/2016	6/11/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Granule Mixes		Pebble Mixes	
Subgroup:	Sandy Granule Gravel		Sandy Pebble Gravel	
Gradistat				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Very Fine Gravel		Sandy Fine Gravel	
Mean Size:	Very Coarse Sand		Very Coarse Sand	
Sorting:	Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Granule		Sandy Pebble Gravel	
Mean Size:	Very Coarse Sand		Very Coarse Sand	
Statistics				
Gravel %:	38.6		46.0	
Pebble %:	16.8		32.7	
Granule %:	21.8		13.3	
Sand %:	61.1		50.6	
Mud %:	0.3		3.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-0.74		-2.74	
Mode 2 (phi):	N/A		1.25	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-0.80		-0.57	
Mean size (mm):	1.74		1.48	
Sorting (phi):	1.332		2.262	
Skewness (phi):	-0.004		0.131	
Kurtosis (phi):	1.363		0.796	
D_{10} (phi):	-2.59		-3.22	
D_{10} (mm):	6.01		9.31	
D_{50} (phi):	-0.76		-0.68	
D_{50} (mm):	1.69		1.60	
LOI % (450°C):	0.6		0.6	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	2.17		5.78	
-3	2.57		7.70	
-2.5	6.57		11.09	
-2	5.51		8.12	
-1.5	8.11		7.02	
-1	13.65		6.25	
-0.5	23.94		6.54	
0	14.78		6.46	
0.5	7.91		6.51	
1	5.22		6.73	
1.5	3.54		7.02	
2	2.51		6.61	
2.5	0.97		3.06	
3	0.48		2.78	
3.5	0.93		3.07	
4	0.86		1.86	
>4	0.27		3.41	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

GSH16-T01









Sample 1

Station Information

Latitude, Longitude:	43.045297	-70.697871
Water Depth (m):	16.8	
Sample Weight (g):	103.6	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

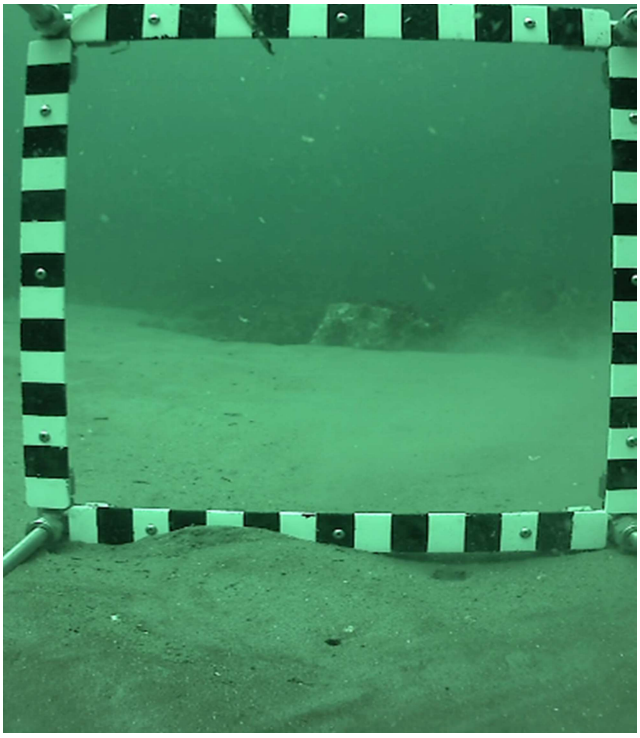
Sediment Name:	Fine Sand
Mean Size:	Fine Sand

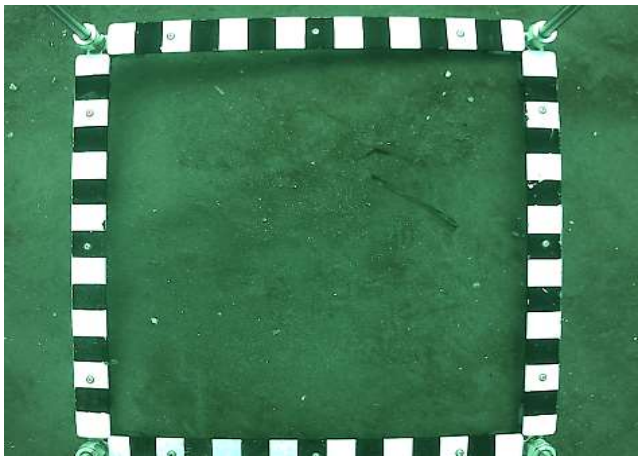
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.8
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.84
Mean size (mm):	0.14
Sorting (phi):	0.378
Skewness (phi):	0.073
Kurtosis (phi):	1.221
D_{10} (phi):	2.35
D_{10} (mm):	0.20
D_{50} (phi):	2.80
D_{50} (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.02
0	0.02
0.5	0.04
1	0.06
1.5	0.24
2	2.14
2.5	10.23
3	61.10
3.5	22.86
4	2.06
>4	1.22
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T02





Sample 1

Station Information

Latitude, Longitude:	43.042899	-70.697748
Water Depth (m):	17.1	
Sample Weight (g):	109.5	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

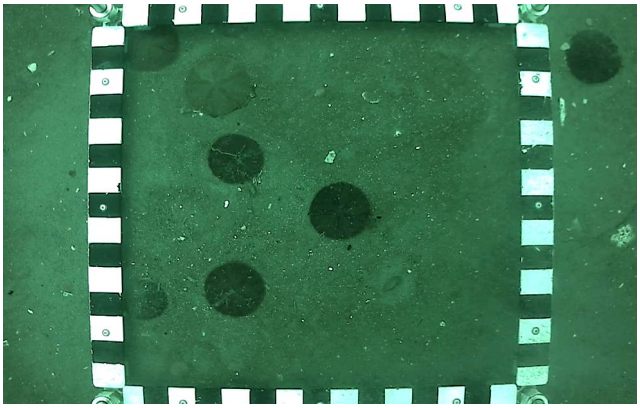
Statistics

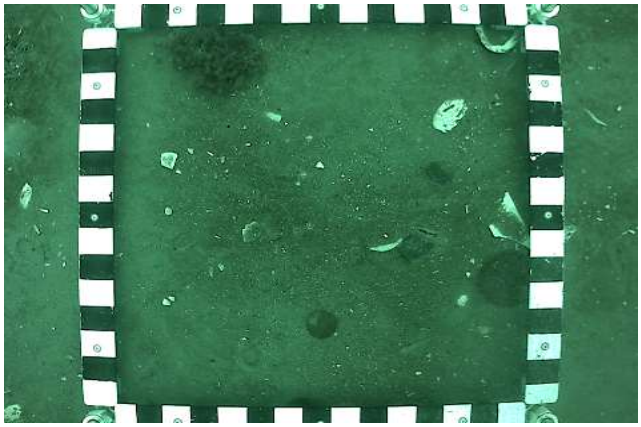
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.2
Mud %:	0.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.80
Mean size (mm):	0.14
Sorting (phi):	0.369
Skewness (phi):	0.045
Kurtosis (phi):	1.330
D_{10} (phi):	2.27
D_{10} (mm):	0.21
D_{50} (phi):	2.77
D_{50} (mm):	0.15
LOI % (450°C):	0.5

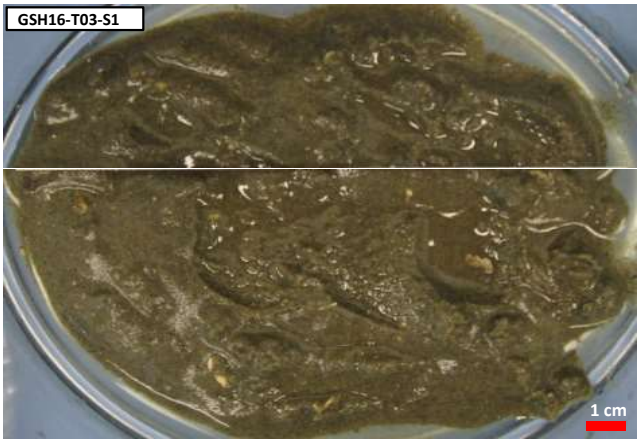
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.01
0	0.03
0.5	0.06
1	0.20
1.5	0.50
2	2.85
2.5	11.19
3	63.26
3.5	19.70
4	1.40
>4	0.81
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T03

Sample 1







Station Information

Latitude, Longitude:	43.041998	-70.694267
Water Depth (m):	16.2	
Sample Weight (g):	102.7	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

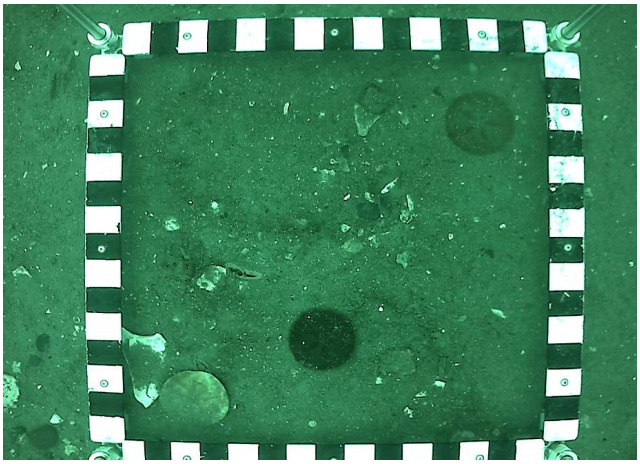
Sediment Name:	Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.7
Mud %:	1.3
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.86
Mean size (mm):	0.14
Sorting (phi):	0.534
Skewness (phi):	-0.242
Kurtosis (phi):	1.220
D_{10} (phi):	1.95
D_{10} (mm):	0.26
D_{50} (phi):	2.89
D_{50} (mm):	0.14
LOI % (450°C):	0.7

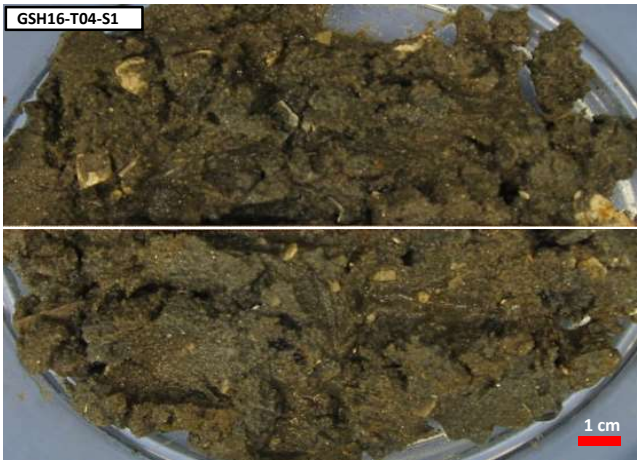
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.05
0	0.10
0.5	0.18
1	0.74
1.5	3.16
2	6.42
2.5	7.17
3	41.11
3.5	36.38
4	3.40
>4	1.28
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T04



GSH16-T04-S1

GSH16-T04-S1



Sample 1

Station Information

Latitude, Longitude:	43.039079	-70.686425
Water Depth (m):	21.3	
Sample Weight (g):	176.0	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebby Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

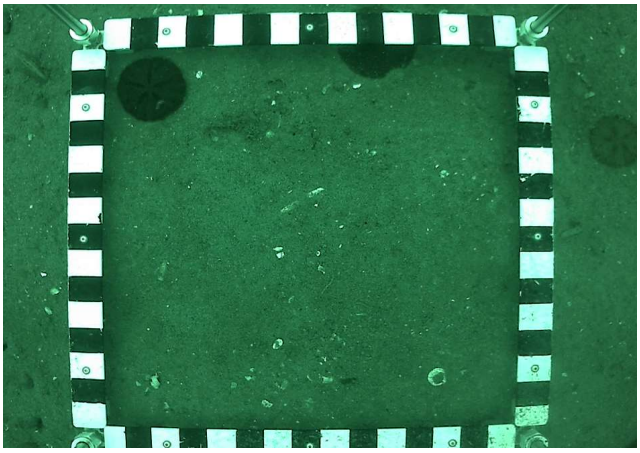
Sediment Name:	Pebbly Fine Sand
Mean Size:	Medium Sand

Statistics

Gravel %:	15.7
Pebble %:	15.1
Granule %:	0.6
Sand %:	82.9
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	1.65
Mean size (mm):	0.32
Sorting (phi):	2.072
Skewness (phi):	-0.671
Kurtosis (phi):	1.996
D_{10} (phi):	-3.51
D_{10} (mm):	11.42
D_{50} (phi):	2.46
D_{50} (mm):	0.18
LOI % (450°C):	0.7

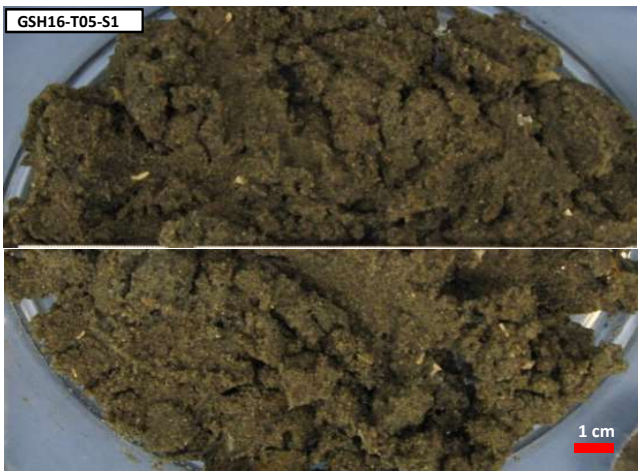
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	10.57
-3	3.88
-2.5	0.00
-2	0.66
-1.5	0.28
-1	0.27
-0.5	0.61
0	0.61
0.5	1.01
1	2.22
1.5	4.66
2	10.73
2.5	15.09
3	25.05
3.5	19.93
4	2.95
>4	1.47
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T05



GSH16-T05-S1

GSH16-T05-S1



Sample 1

Station Information

Latitude, Longitude:	43.035313	-70.683228
Water Depth (m):	25.9	
Sample Weight (g):	195.0	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebby Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

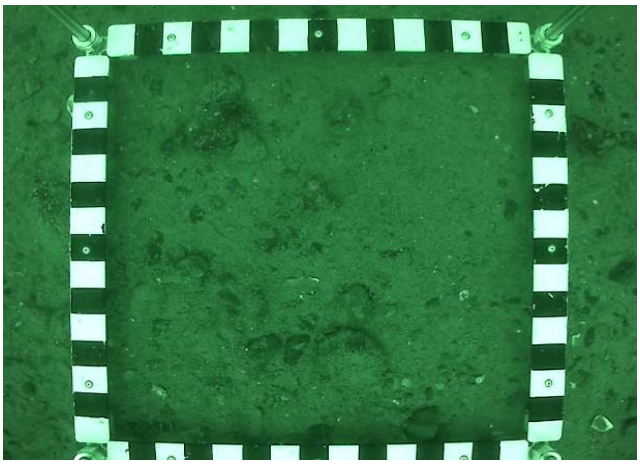
Sediment Name:	Pebbly Fine Sand
Mean Size:	Fine Sand

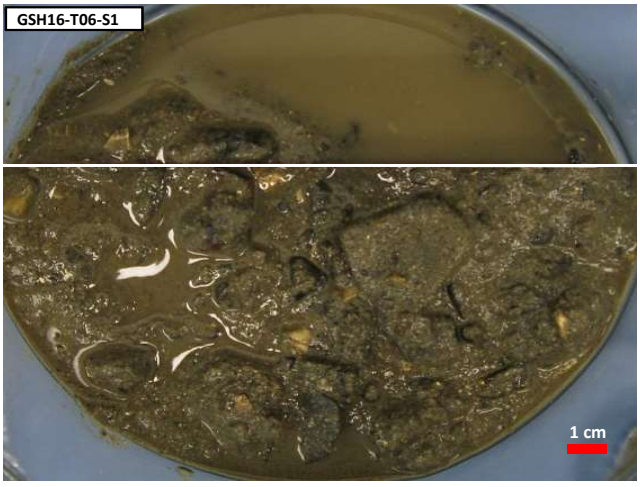
Statistics

Gravel %:	7.7
Pebble %:	5.9
Granule %:	1.8
Sand %:	90.8
Mud %:	1.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.08
Mean size (mm):	0.24
Sorting (phi):	1.442
Skewness (phi):	-0.466
Kurtosis (phi):	1.780
D_{10} (phi):	-0.02
D_{10} (mm):	1.02
D_{50} (phi):	2.31
D_{50} (mm):	0.20
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	1.36
-3	1.70
-2.5	1.86
-2	0.97
-1.5	1.04
-1	0.77
-0.5	0.91
0	1.47
0.5	2.66
1	4.52
1.5	7.38
2	14.26
2.5	16.99
3	26.07
3.5	14.38
4	2.18
>4	1.48
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T06





Sample 1

Station Information

Latitude, Longitude:	43.031908	-70.682273
Water Depth (m):	27.7	
Sample Weight (g):	319.3	
Date Collected, Analyzed:	7/10/2017	6/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Coarse Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

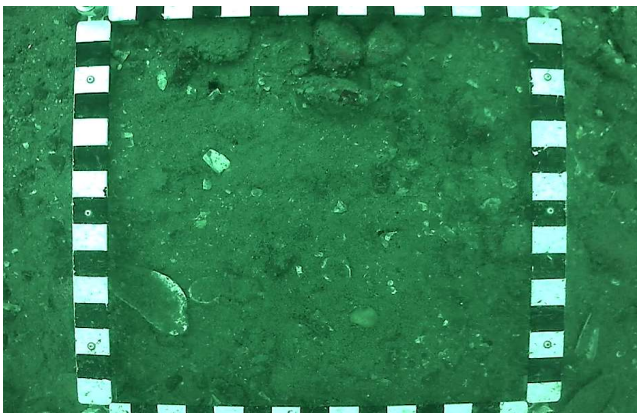
Statistics

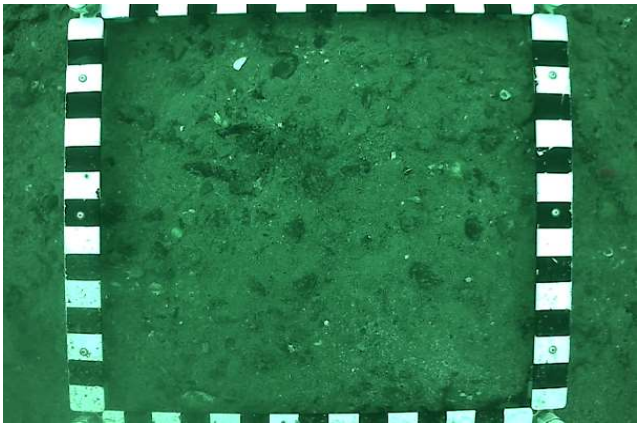
Gravel %:	51.7
Pebble %:	48.3
Granule %:	3.4
Sand %:	45.9
Mud %:	2.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	1.25
Mode 3 (phi):	N/A
Mean size (phi):	-1.18
Mean size (mm):	2.26
Sorting (phi):	2.893
Skewness (phi):	0.168
Kurtosis (phi):	0.613
D_{10} (phi):	-4.63
D_{10} (mm):	24.74
D_{50} (phi):	-1.51
D_{50} (mm):	2.85
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	14.13
-4	6.40
-3.5	10.26
-3	9.76
-2.5	4.39
-2	3.37
-1.5	1.77
-1	1.66
-0.5	1.66
0	1.67
0.5	3.60
1	6.55
1.5	7.78
2	7.04
2.5	5.74
3	6.93
3.5	3.76
4	1.13
>4	2.39
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T07

Sample 1





Station Information

Latitude, Longitude:	43.026767	-70.677968
Water Depth (m):	25.9	
Sample Weight (g):	282.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

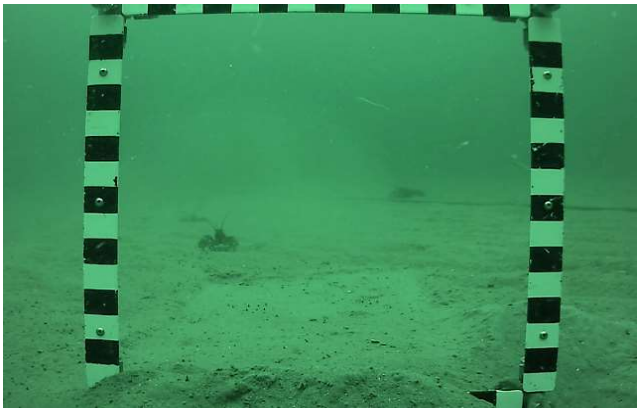
Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

Statistics

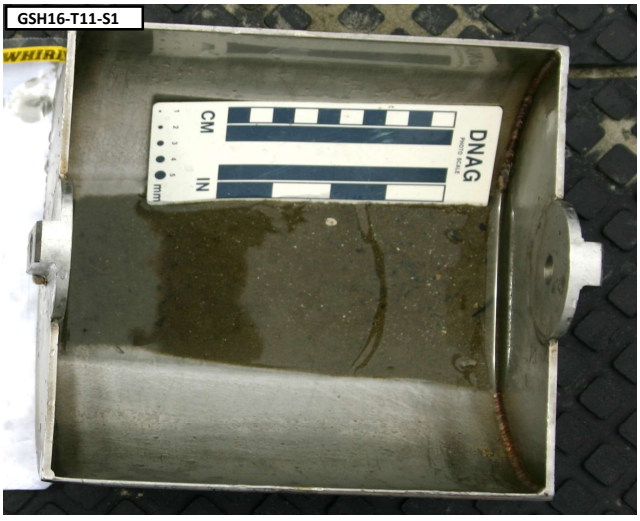
Gravel %:	52.5
Pebble %:	43.0
Granule %:	9.5
Sand %:	43.2
Mud %:	4.3
Silt %:	2.8
Clay %:	1.6
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.94
Mean size (mm):	1.91
Sorting (phi):	2.579
Skewness (phi):	0.236
Kurtosis (phi):	0.679
D_{10} (phi):	-3.80
D_{10} (mm):	13.88
D_{50} (phi):	-1.27
D_{50} (mm):	2.41
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.43
-3.5	19.03
-3	6.91
-2.5	8.36
-2	6.28
-1.5	4.97
-1	4.55
-0.5	4.79
0	4.37
0.5	5.05
1	5.20
1.5	4.59
2	6.34
2.5	5.55
3	4.14
3.5	2.13
4	1.00
>4	N/A
5	0.92
6	0.77
7	0.87
8	0.19
9	0.48
10	0.31
Smaller than 10	0.77

GSH16-T11



GSH16-T11-S1



GSH16-T11-S1

Sample 1

Station Information

Latitude, Longitude:	43.024464	-70.704939
Water Depth (m):	18.9	
Sample Weight (g):	84.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

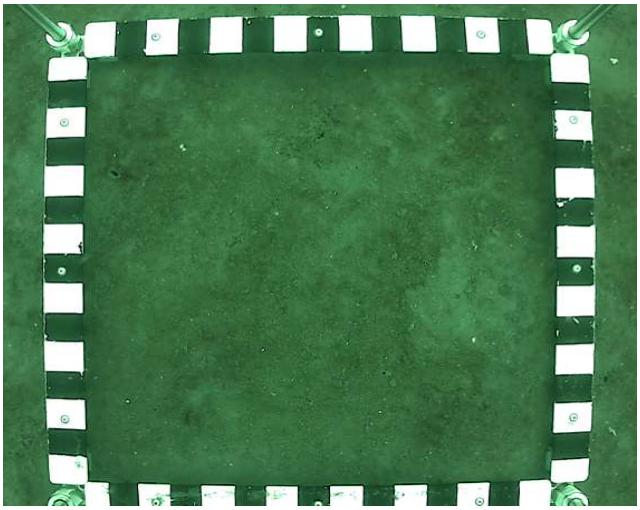
Statistics

Gravel %:	0.4
Pebble %:	0.3
Granule %:	0.1
Sand %:	96.9
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.97
Mean size (mm):	0.13
Sorting (phi):	0.454
Skewness (phi):	-0.070
Kurtosis (phi):	1.150
D_{10} (phi):	2.49
D_{10} (mm):	0.18
D_{50} (phi):	2.98
D_{50} (mm):	0.13
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.31
-1.5	0.05
-1	0.09
-0.5	0.26
0	0.28
0.5	0.43
1	0.60
1.5	0.85
2	1.70
2.5	4.00
3	43.11
3.5	41.19
4	4.49
>4	2.65
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T12

Sample 1



Station Information

Latitude, Longitude:	43.025693	-70.710856
Water Depth (m):	15.8	
Sample Weight (g):	101.9	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Fine Sand
Sorting:	Very Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

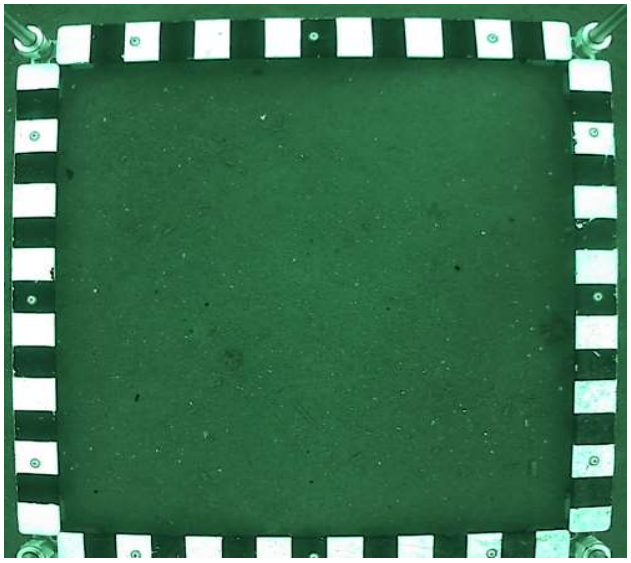
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.4
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.91
Mean size (mm):	0.13
Sorting (phi):	0.331
Skewness (phi):	0.194
Kurtosis (phi):	0.813
D_{10} (phi):	2.52
D_{10} (mm):	0.17
D_{50} (phi):	2.86
D_{50} (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.02
0.5	0.03
1	0.05
1.5	0.03
2	0.58
2.5	4.29
3	60.58
3.5	30.01
4	2.76
>4	1.63
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T14

Sample 1



Station Information

Latitude, Longitude:	43.030153	-70.702878
Water Depth (m):	17.7	
Sample Weight (g):	122.5	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

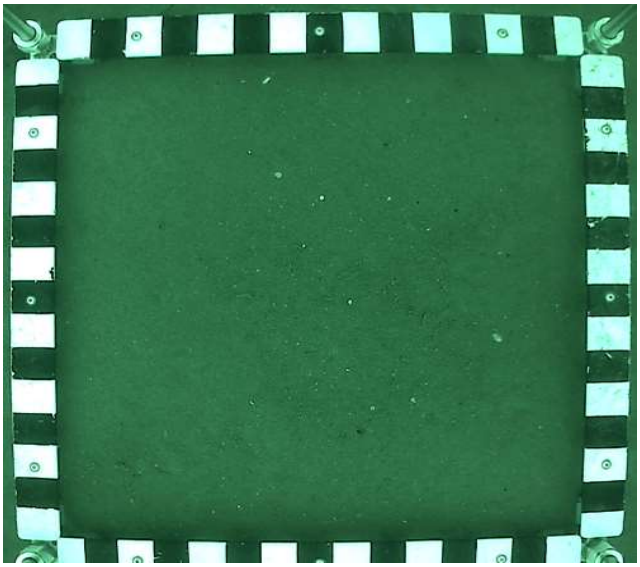
Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.3
Mud %:	1.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.89
Mean size (mm):	0.13
Sorting (phi):	0.381
Skewness (phi):	0.060
Kurtosis (phi):	1.010
D_{10} (phi):	2.49
D_{10} (mm):	0.18
D_{50} (phi):	2.85
D_{50} (mm):	0.14
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.07
0	0.11
0.5	0.18
1	0.30
1.5	0.55
2	1.35
2.5	6.23
3	57.34
3.5	29.46
4	2.71
>4	1.65
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T15



Sample 1

Station Information

Latitude, Longitude:	43.031050	-70.698484
Water Depth (m):	17.7	
Sample Weight (g):	124.1	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

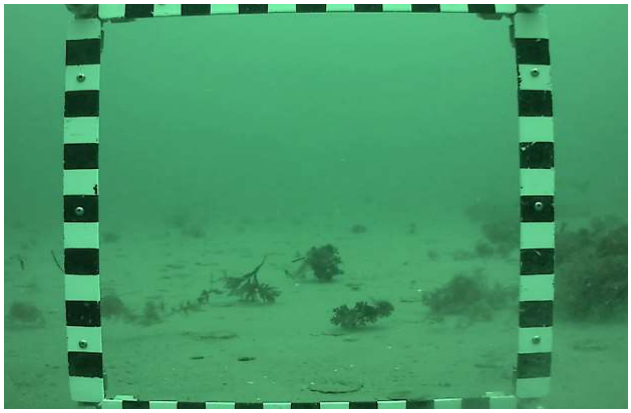
Statistics

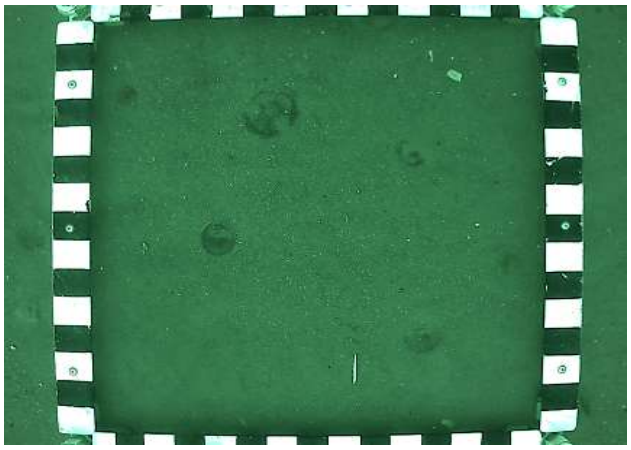
Gravel %:	0.2
Pebble %:	0.2
Granule %:	0.1
Sand %:	97.6
Mud %:	2.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.355
Skewness (phi):	0.126
Kurtosis (phi):	0.813
D_{10} (phi):	2.53
D_{10} (mm):	0.17
D_{50} (phi):	2.93
D_{50} (mm):	0.13
LOI % (450°C):	0.7

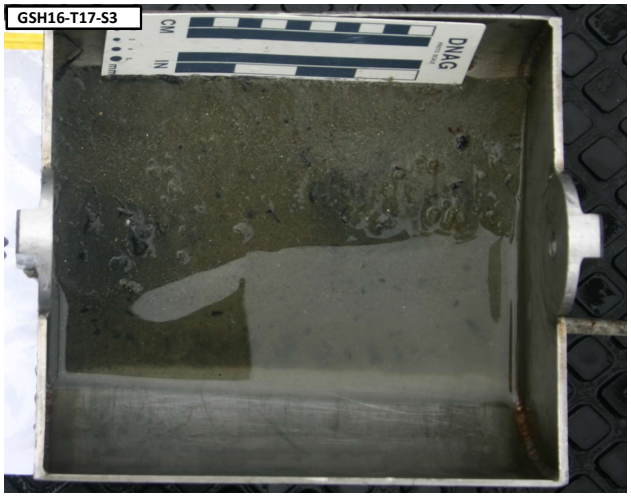
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.16
-1.5	0.00
-1	0.06
-0.5	0.00
0	0.01
0.5	0.05
1	0.08
1.5	0.17
2	0.61
2.5	3.67
3	51.77
3.5	37.75
4	3.53
>4	2.13
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T17

Sample 2







Station Information

Latitude, Longitude:	43.034038	-70.693748
Water Depth (m):	18.3	
Sample Weight (g):	103.3	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Very Fine Sand
Mean Size:	Very Fine Sand

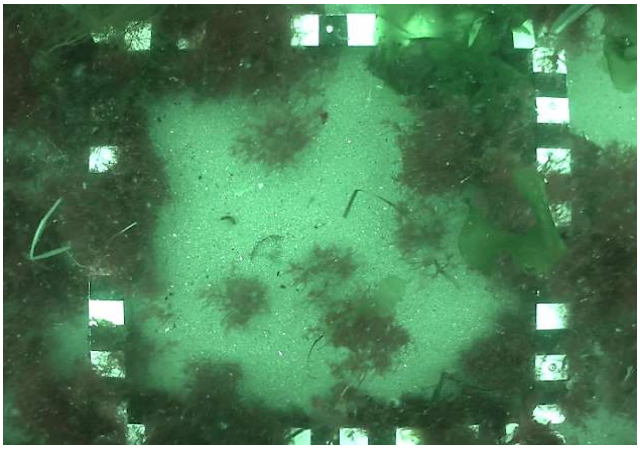
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	97.5
Mud %:	2.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.02
Mean size (mm):	0.12
Sorting (phi):	0.398
Skewness (phi):	0.001
Kurtosis (phi):	0.953
D_{10} (phi):	2.54
D_{10} (mm):	0.17
D_{50} (phi):	3.04
D_{50} (mm):	0.12
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.03
0	0.03
0.5	0.04
1	0.07
1.5	0.20
2	1.02
2.5	3.79
3	40.51
3.5	45.68
4	6.08
>4	2.50
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-T18

Sample 1



GSH16-T18-S2

GSH16-T18-S1

Station Information

Latitude, Longitude:	43.036400	-70.695581
Water Depth (m):	16.8	
Sample Weight (g):	120.8	
Date Collected, Analyzed:	7/10/2017	6/28/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Well Sorted Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Fine Sand
Mean Size:	Fine Sand

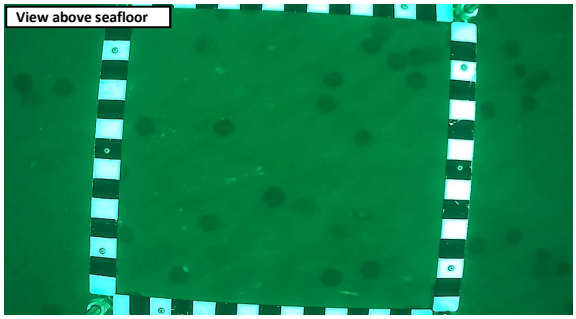
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.8
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.95
Mean size (mm):	0.13
Sorting (phi):	0.364
Skewness (phi):	-0.013
Kurtosis (phi):	0.837
D_{10} (phi):	2.51
D_{10} (mm):	0.18
D_{50} (phi):	2.94
D_{50} (mm):	0.13
LOI % (450°C):	0.6

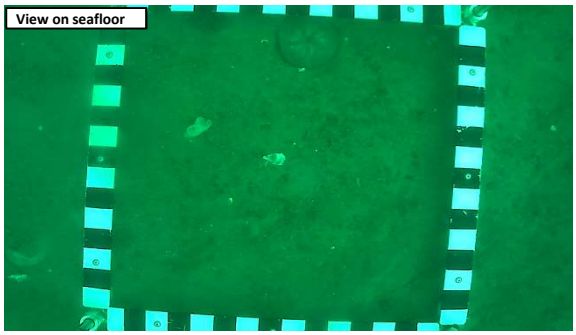
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.01
0	0.02
0.5	0.03
1	0.05
1.5	0.17
2	1.35
2.5	4.89
3	49.07
3.5	39.62
4	3.56
>4	1.23
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

GSH16-TS06

View above seafloor



View on seafloor



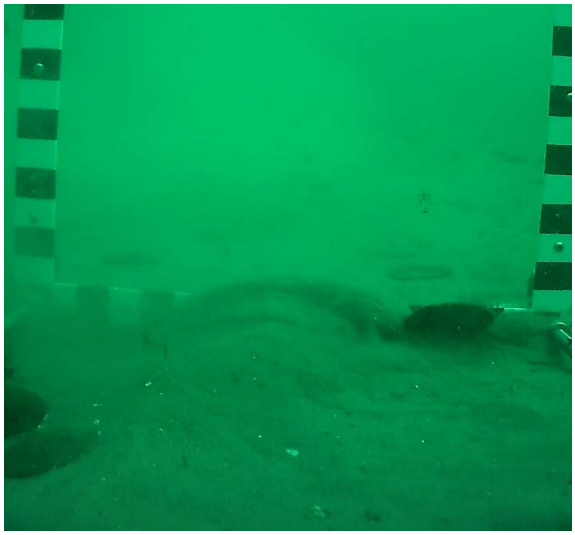
GSH16-TS06-S1

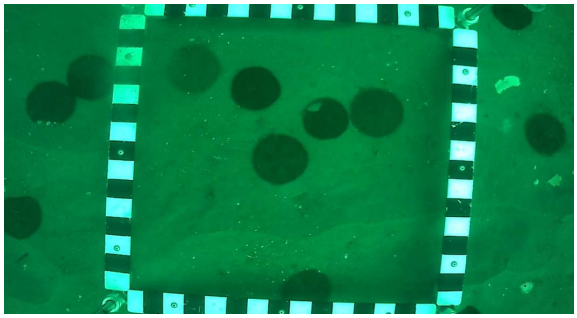
GSH16-TS06-S2

	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.855997	-70.794752	42.855877	-70.794708
Water Depth (m):	18.0		18.0	
Sample Weight (g):	55.1		32.2	
Date Analyzed:	10/13/2016	5/22/2017	10/13/2016	6/1/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Slightly Granuley	
Subgroup:	Fine Sand		Slightly Granuley Very Fine Sand	
Gradistat				
Textural Group (GSM):	Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Fine Sand		Slightly Very Fine Gravelly Very Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Well Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Fine Sand		Slightly Granular Very Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.0		0.7	
Pebble %:	0.0		0.2	
Granule %:	0.0		0.5	
Sand %:	96.1		96.4	
Mud %:	3.9		2.8	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.74		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.88		2.81	
Mean size (mm):	0.14		0.14	
Sorting (phi):	0.652		0.729	
Skewness (phi):	-0.109		-0.308	
Kurtosis (phi):	1.181		1.076	
D_{10} (phi):	2.03		1.74	
D_{10} (mm):	0.24		0.30	
D_{50} (phi):	2.92		2.96	
D_{50} (mm):	0.13		0.13	
LOI % (450°C):	0.6		0.5	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.22
-1.5	0.00	0.18
-1	0.00	0.32
-0.5	0.31	0.30
0	0.29	0.47
0.5	0.43	0.81
1	0.61	0.99
1.5	1.72	2.81
2	5.82	7.99
2.5	13.05	15.86
3	32.96	21.76
3.5	29.64	36.45
4	11.30	8.99
>4	3.87	2.84
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

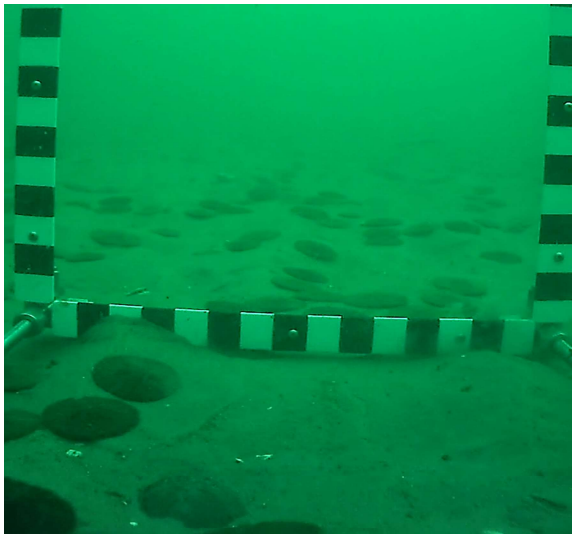
GSH16-TS09

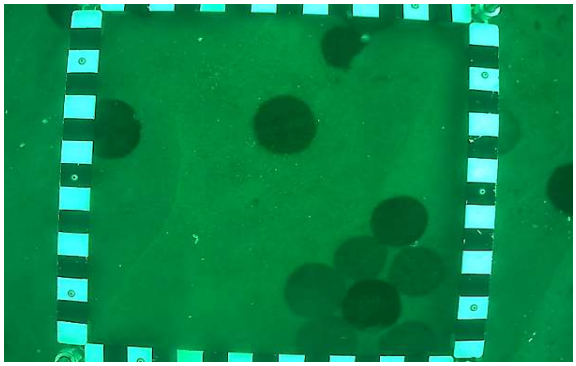




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.857124	-70.799412	42.857120	-70.799449
Water Depth (m):	16.5		16.5	
Sample Weight (g):	67.8		168.4	
Date Analyzed:	10/13/2016	6/1/2017	10/13/2016	5/31/17, 6/21/18
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Pebbly	
Subgroup:	Slightly Granuley Fine Sand		Slightly Pebbly Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Fine Sand		Slightly Fine Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Fine Sand		Slightly Pebbly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.2		0.1	
Pebble %:	0.0		0.1	
Granule %:	0.2		0.0	
Sand %:	95.9		96.3	
Mud %:	3.9		3.7	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		2.74	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.79		2.82	
Mean size (mm):	0.14		0.14	
Sorting (phi):	0.728		0.642	
Skewness (phi):	-0.161		-0.065	
Kurtosis (phi):	1.098		1.135	
D_{10} (phi):	1.79		2.03	
D_{10} (mm):	0.29		0.24	
D_{50} (phi):	2.86		2.85	
D_{50} (mm):	0.14		0.14	
LOI % (450°C):	0.5		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.08	
-1.5	0.15		0.00	
-1	0.10		0.01	
-0.5	0.18		0.07	
0	0.29		0.15	
0.5	0.65		0.33	
1	1.55		0.62	
1.5	2.94		1.68	
2	7.15		5.87	
2.5	17.63		16.90	
3	26.62		33.72	
3.5	29.56		28.13	
4	9.31		8.78	
>4	3.86		3.66	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

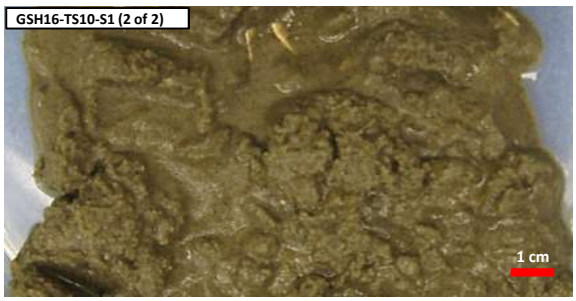
GSH16-TS10



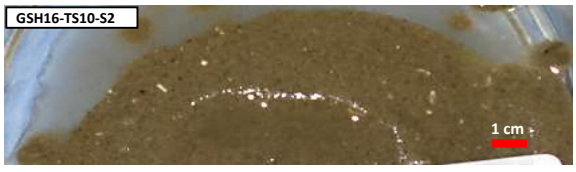


GSH16-TS10-S1 (1 of 2)

GSH16-TS10-S1 (2 of 2)



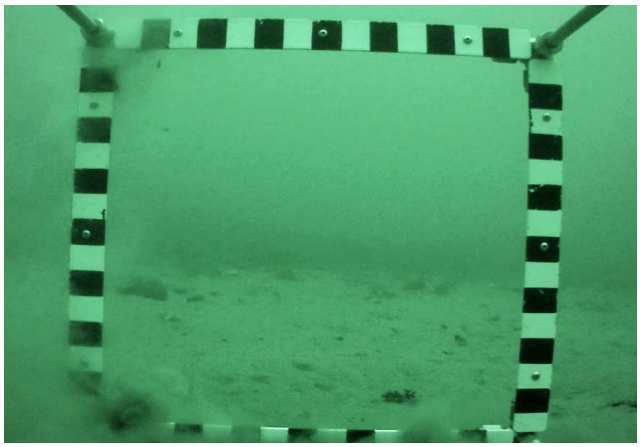
GSH16-TS10-S2

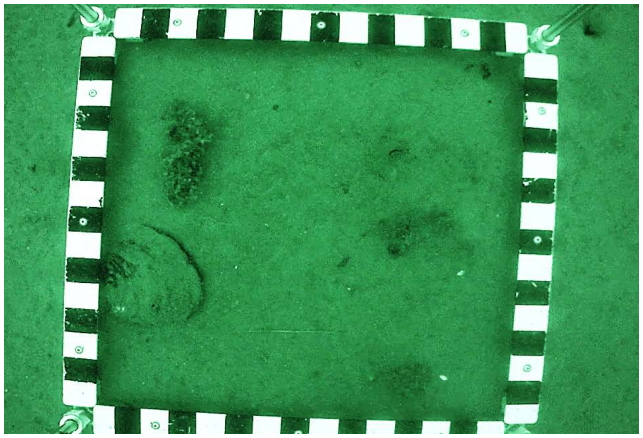


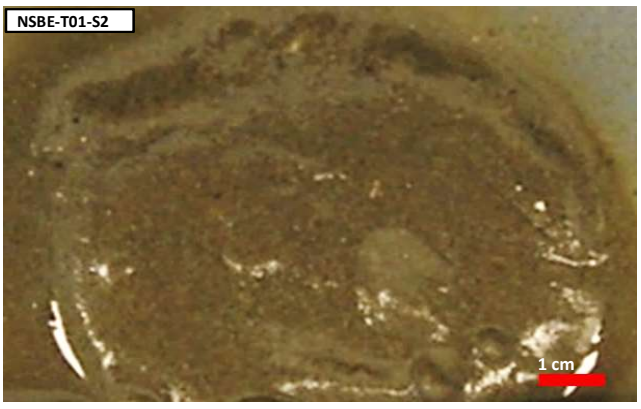
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.853463	-70.799742	42.853333	-70.799738
Water Depth (m):	17.4		17.4	
Sample Weight (g):	209.3		63.9	
Date Analyzed:	10/13/2016	5/22/17, 6/28/18	10/13/2016	5/25/2017
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Pebbly	
Subgroup:	Slightly Granuley Fine Sand		Slightly Pebbly Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Fine Sand		Slightly Medium Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Fine Sand		Slightly Pebbly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.0		0.9	
Pebble %:	0.0		0.7	
Granule %:	0.0		0.2	
Sand %:	96.7		95.6	
Mud %:	3.3		3.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.74		2.74	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.76		2.58	
Mean size (mm):	0.15		0.17	
Sorting (phi):	0.721		0.868	
Skewness (phi):	-0.093		-0.118	
Kurtosis (phi):	1.061		1.128	
D_{10} (phi):	1.76		1.47	
D_{10} (mm):	0.30		0.36	
D_{50} (phi):	2.80		2.63	
D_{50} (mm):	0.14		0.16	
LOI % (450°C):	0.5		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.48	
-2.5	0.00		0.00	
-2	0.00		0.23	
-1.5	0.01		0.15	
-1	0.01		0.07	
-0.5	0.02		0.14	
0	0.13		0.21	
0.5	0.66		1.27	
1	1.65		3.02	
1.5	2.88		4.67	
2	8.90		12.27	
2.5	16.88		19.38	
3	30.68		27.41	
3.5	24.31		18.03	
4	10.59		9.23	
>4	3.28		3.44	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T01

Sample 2







Station Information

Latitude, Longitude:	42.968322	-70.660788
Water Depth (m):	43.3	
Sample Weight (g):	53.9	
Date Collected, Analyzed:	8/8/2017	8/17/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

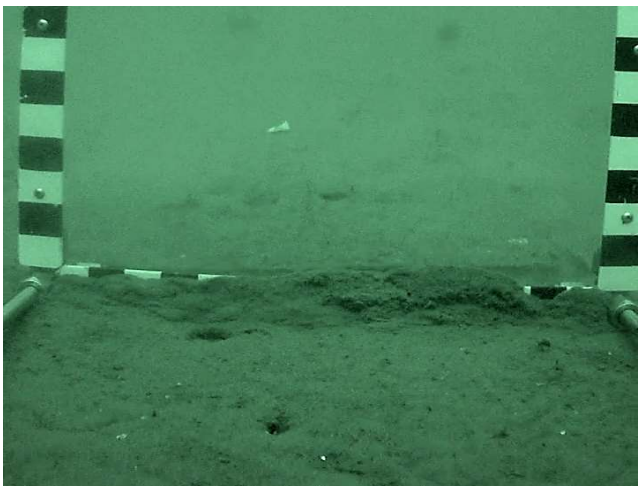
Statistics

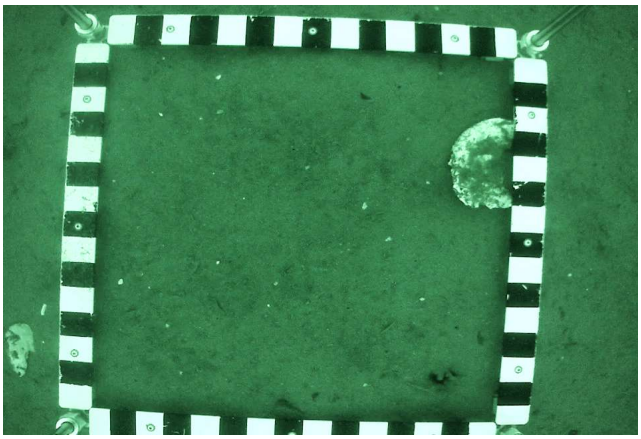
Gravel %:	1.2
Pebble %:	1.1
Granule %:	0.1
Sand %:	95.0
Mud %:	3.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.458
Skewness (phi):	0.069
Kurtosis (phi):	1.135
D_{10} (phi):	2.48
D_{10} (mm):	0.18
D_{50} (phi):	2.94
D_{50} (mm):	0.13
LOI % (450°C):	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	1.09
-2	0.00
-1.5	0.00
-1	0.12
-0.5	0.12
0	0.11
0.5	0.11
1	0.24
1.5	0.54
2	0.07
2.5	6.85
3	45.88
3.5	36.67
4	4.41
>4	3.79
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T02

Sample 1





Station Information

Latitude, Longitude:	42.971764	-70.653901
Water Depth (m):	40.5	
Sample Weight (g):	90.0	
Date Collected, Analyzed:	8/8/2017	2/21/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

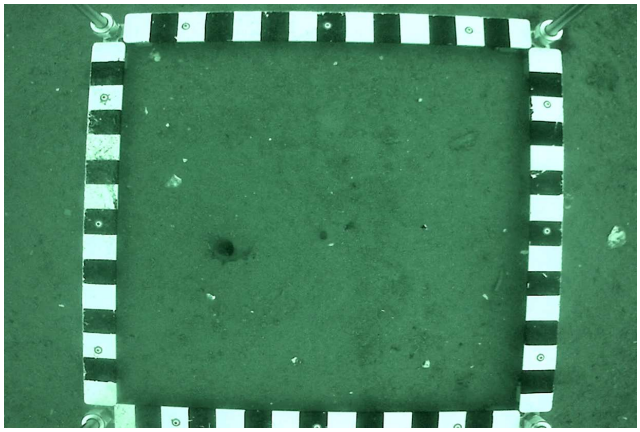
Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

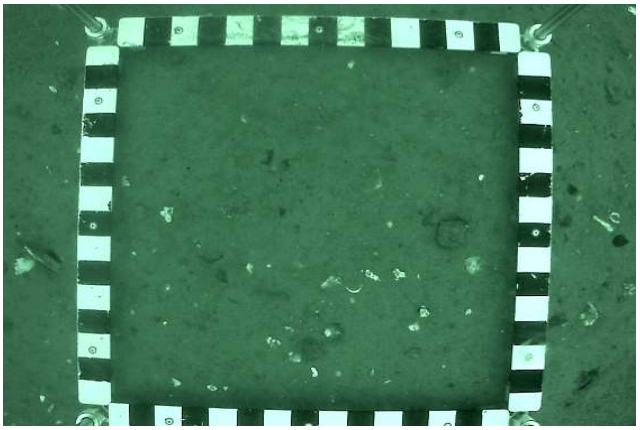
Statistics

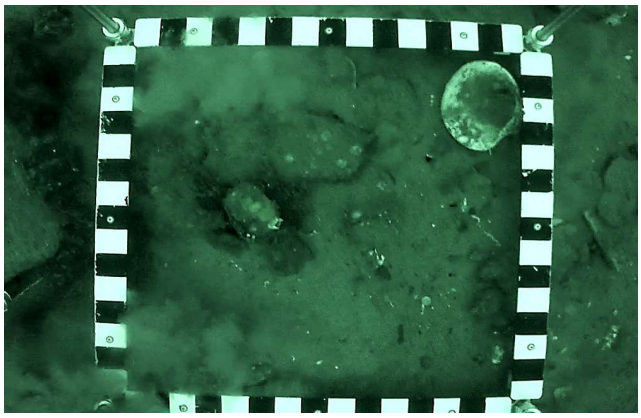
Gravel %:	3.1
Pebble %:	2.8
Granule %:	0.3
Sand %:	89.6
Mud %:	7.3
Silt %:	4.0
Clay %:	3.2
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.05
Mean size (mm):	0.12
Sorting (phi):	0.717
Skewness (phi):	-0.002
Kurtosis (phi):	2.116
D_{10} (phi):	2.48
D_{10} (mm):	0.18
D_{50} (phi):	3.10
D_{50} (mm):	0.12
LOI % (450°C):	1.0

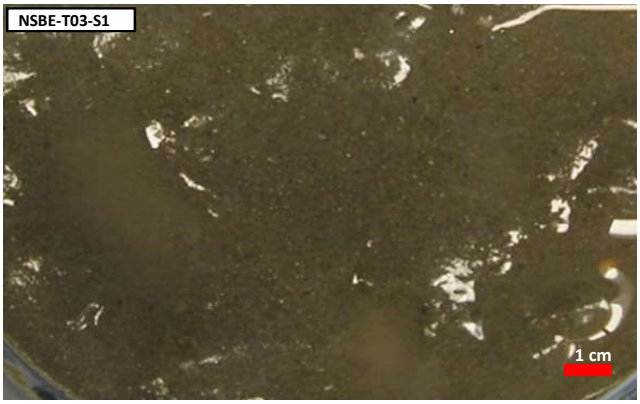
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	2.44
-2	0.36
-1.5	0.10
-1	0.23
-0.5	0.17
0	0.12
0.5	0.14
1	0.24
1.5	0.47
2	1.39
2.5	4.22
3	30.29
3.5	44.56
4	8.00
>4	N/A
5	2.25
6	0.68
7	0.57
8	0.53
9	0.42
10	0.68
Smaller than 10	2.14

NSBE-T03









Sample 1

Station Information

Latitude, Longitude:	42.976383	-70.643870
Water Depth (m):	35.7	
Sample Weight (g):	103.4	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

Statistics

Gravel %:	0.5
Pebble %:	0.4
Granule %:	0.1
Sand %:	95.7
Mud %:	3.8
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.02
Mean size (mm):	0.12
Sorting (phi):	0.483
Skewness (phi):	-0.092
Kurtosis (phi):	1.194
D_{10} (phi):	2.49
D_{10} (mm):	0.18
D_{50} (phi):	3.05
D_{50} (mm):	0.12
LOI % (450°C):	0.7

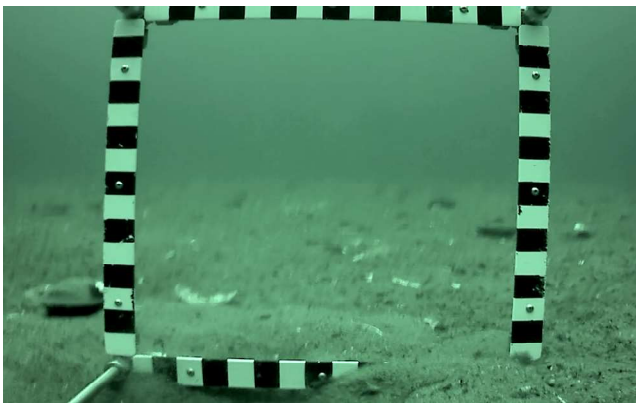
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.42
-1.5	0.07
-1	0.05
-0.5	0.17
0	0.12
0.5	0.17
1	0.37
1.5	0.74
2	1.71
2.5	5.13
3	36.13
3.5	43.90
4	7.23
>4	3.78
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

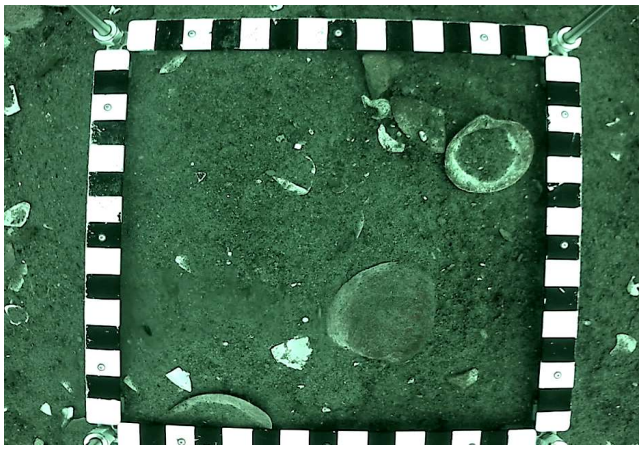
NSBE-T04

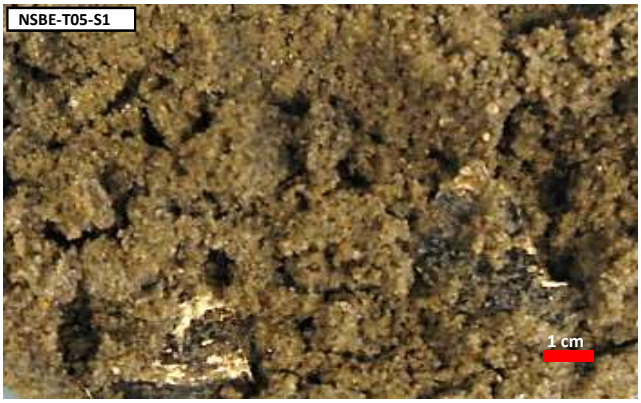
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.990159	-70.638573	42.990297	-70.638753
Water Depth (m):	20.7		20.7	
Sample Weight (g):	173.3		200.7	
Date Collected, Analyzed:	8/7/2017	3/22/2018	8/7/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebbly		Pebbly	
Subgroup:	Pebby Medium Sand		Pebby Medium Sand	
Gradistat Results				
Textural Group (GSM):	Gravelly Sand		Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravelly Medium Sand		Coarse Gravelly Medium Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Sorting:	Poorly Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebbly Medium Sand		Pebbly Medium Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	5.6		6.2	
Pebble %:	5.1		5.5	
Granule %:	0.5		0.7	
Sand %:	94.3		93.7	
Mud %:	0.1		0.1	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	1.25		1.25	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.94		0.92	
Mean size (mm):	0.52		0.53	
Sorting (phi):	1.037		0.947	
Skewness (phi):	-0.471		-0.469	
Kurtosis (phi):	3.111		2.437	
D_{10} (phi):	0.07		1.25	
D_{10} (mm):	0.95		0.42	
D_{50} (phi):	1.01		1.02	
D_{50} (mm):	0.50		0.49	
LOI % (450°C):	0.3		0.3	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		3.07	
-3.5	5.11		1.13	
-3	0.00		0.48	
-2.5	0.00		0.42	
-2	0.00		0.36	
-1.5	0.22		0.24	
-1	0.29		0.48	
-0.5	0.86		0.91	
0	2.30		2.66	
0.5	8.62		10.28	
1	31.41		27.94	
1.5	42.80		41.48	
2	7.95		9.90	
2.5	0.28		0.36	
3	0.04		0.09	
3.5	0.01		0.07	
4	0.01		0.02	
>4	0.10		0.13	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T05

Sample 1







Station Information

Latitude, Longitude:	42.986699	-70.645589
Water Depth (m):	24.4	
Sample Weight (g):	169.4	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

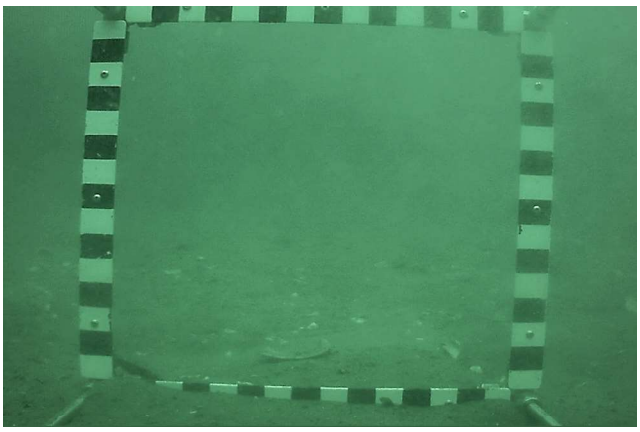
Sediment Name:	Slightly Granular Medium Sand
Mean Size:	Medium Sand

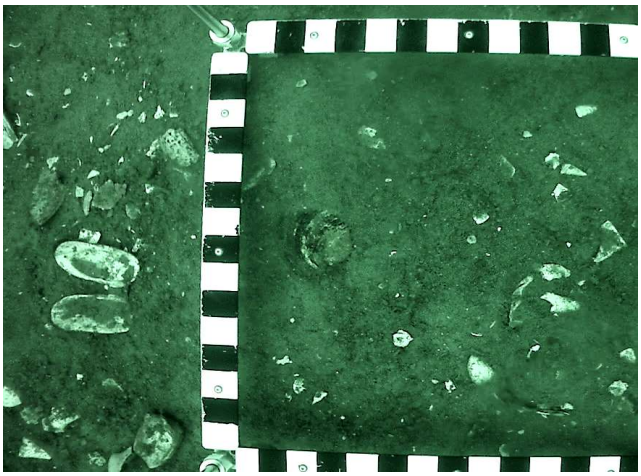
Statistics

Gravel %:	1.2
Pebble %:	0.4
Granule %:	0.8
Sand %:	98.5
Mud %:	0.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.25
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.18
Mean size (mm):	0.44
Sorting (phi):	0.588
Skewness (phi):	-0.150
Kurtosis (phi):	0.968
D_{10} (phi):	0.35
D_{10} (mm):	0.78
D_{50} (phi):	1.21
D_{50} (mm):	0.43
LOI % (450°C):	0.3

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.41
-1.5	0.29
-1	0.52
-0.5	0.90
0	2.43
0.5	7.64
1	23.06
1.5	34.39
2	27.52
2.5	2.38
3	0.17
3.5	0.03
4	0.01
>4	0.25
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T06A





Sample 1

Station Information

Latitude, Longitude:	42.980573	-70.655550
Water Depth (m):	27.1	
Sample Weight (g):	160.5	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Medium Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Moderately Well Sorted Medium Sand
Mean Size:	Medium Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

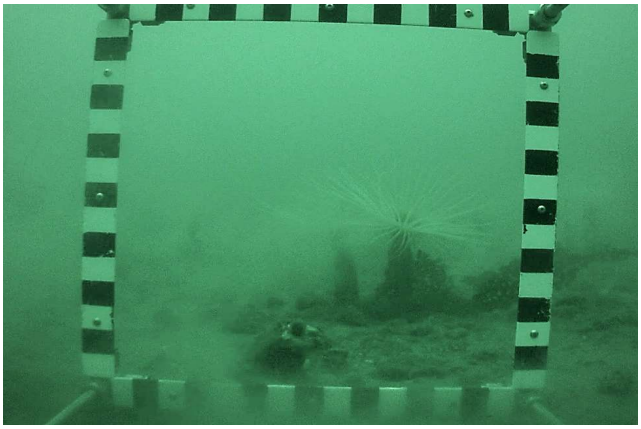
Sediment Name:	Medium Sand
Mean Size:	Medium Sand

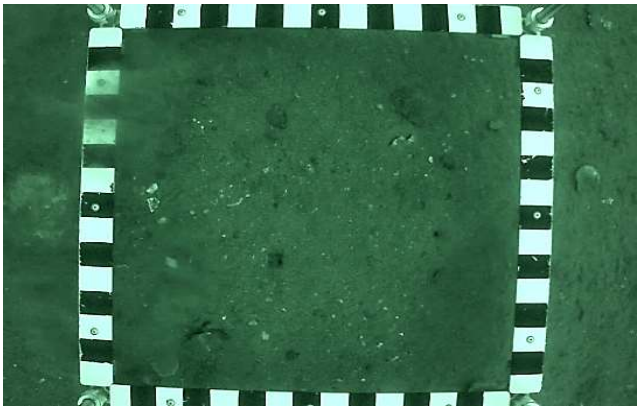
Statistics

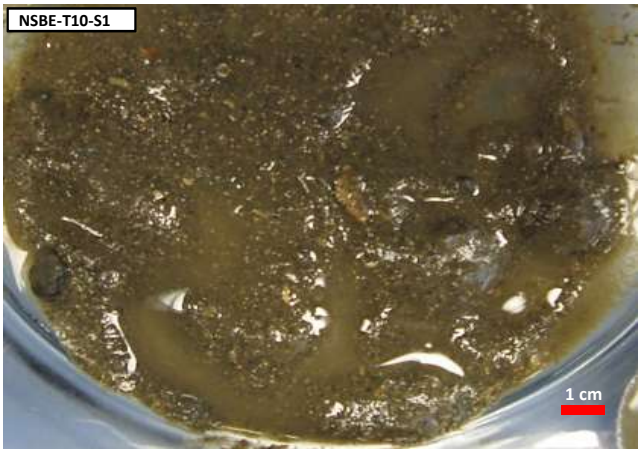
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.6
Mud %:	0.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	1.75
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.65
Mean size (mm):	0.32
Sorting (phi):	0.563
Skewness (phi):	-0.165
Kurtosis (phi):	1.184
D_{10} (phi):	0.83
D_{10} (mm):	0.56
D_{50} (phi):	1.70
D_{50} (mm):	0.31
LOI % (450°C):	0.4

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.09
0	0.43
0.5	2.98
1	9.80
1.5	17.91
2	45.83
2.5	18.40
3	3.76
3.5	0.31
4	0.05
>4	0.44
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T10







Sample 1

Station Information

Latitude, Longitude:	42.976370	-70.678328
Water Depth (m):	37.5	
Sample Weight (g):	52.7	
Date Collected, Analyzed:	8/7/2017	3/22/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

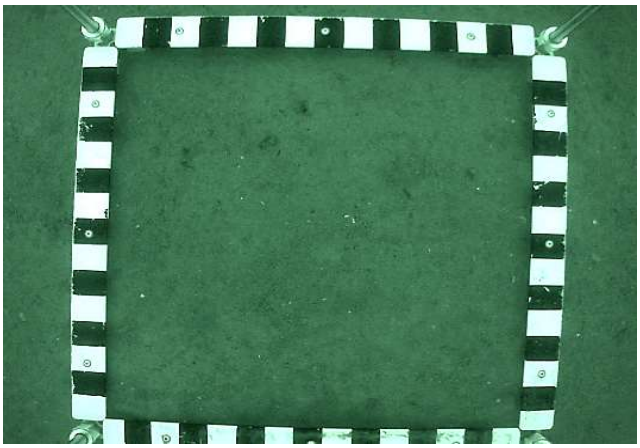
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Medium Sand

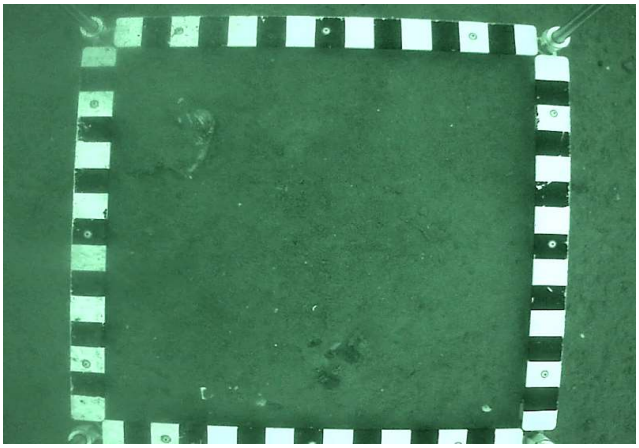
Statistics

Gravel %:	3.8
Pebble %:	2.8
Granule %:	0.9
Sand %:	92.4
Mud %:	3.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.88
Mean size (mm):	0.27
Sorting (phi):	1.085
Skewness (phi):	-0.260
Kurtosis (phi):	1.071
D_{10} (phi):	0.46
D_{10} (mm):	0.73
D_{50} (phi):	2.06
D_{50} (mm):	0.24
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	2.51
-2	0.31
-1.5	0.64
-1	0.28
-0.5	0.69
0	1.51
0.5	4.34
1	10.67
1.5	12.46
2	13.49
2.5	23.11
3	20.96
3.5	4.18
4	0.98
>4	3.85
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T12





Sample 1

Station Information

Latitude, Longitude:	42.984786	-70.685358
Water Depth (m):	32.3	
Sample Weight (g):	193.8	
Date Collected, Analyzed:	8/8/2017	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

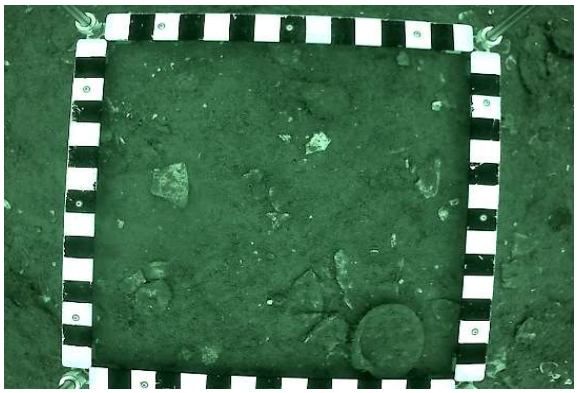
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	3.9
Pebble %:	3.2
Granule %:	0.7
Sand %:	90.2
Mud %:	5.9
Silt %:	3.1
Clay %:	2.8
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.68
Mean size (mm):	0.16
Sorting (phi):	0.934
Skewness (phi):	-0.104
Kurtosis (phi):	3.214
D_{10} (phi):	1.69
D_{10} (mm):	0.31
D_{50} (phi):	2.71
D_{50} (mm):	0.15
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.56
-2.5	1.07
-2	0.55
-1.5	0.34
-1	0.37
-0.5	0.35
0	0.45
0.5	0.55
1	0.98
1.5	2.07
2	4.46
2.5	13.86
3	51.15
3.5	13.34
4	3.01
>4	N/A
5	1.47
6	0.71
7	0.51
8	0.43
9	0.36
10	0.50
Smaller than 10	1.93

NSBE-T13



Station Information	Sample 1		Sample 2	
Latitude, Longitude:	42.987658	-70.660873	42.987847	-70.660993
Water Depth (m):	30.5		30.5	
Sample Weight (g):	141.8		157.1	
Date Collected, Analyzed:	8/8/2017	3/29/2018	8/8/2017	2/21/2018

CMECS Classifications		
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Pebbly	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand	Slightly Pebbly Fine Sand

Gradistat Results		
Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand	Fine Sand
Sorting:	Moderately Well Sorted	Moderately Sorted

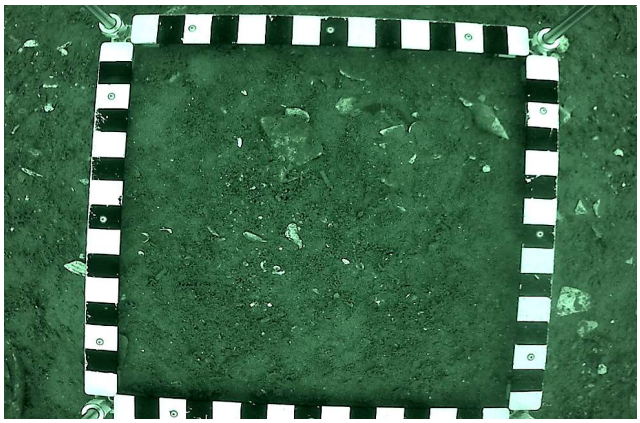
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale		
Sediment Name:	Slightly Pebbly Fine Sand	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand	Fine Sand

Statistics		
Gravel %:	2.0	1.0
Pebble %:	1.3	0.7
Granule %:	0.8	0.3
Sand %:	95.9	95.6
Mud %:	2.1	3.4
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	2.24	2.24
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	2.14	2.17
Mean size (mm):	0.23	0.22
Sorting (phi):	0.688	0.756
Skewness (phi):	-0.246	-0.173
Kurtosis (phi):	1.528	1.567
D_{10} (phi):	1.12	1.10
D_{10} (mm):	0.46	0.47
D_{50} (phi):	2.18	2.21
D_{50} (mm):	0.22	0.22
LOI % (450°C):	0.9	1.0

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	1.09	0.57
-2.5	0.17	0.00
-2	0.00	0.08
-1.5	0.19	0.10
-1	0.57	0.24
-0.5	0.53	0.91
0	1.05	1.62
0.5	1.82	2.04
1	3.12	3.28
1.5	5.92	5.94
2	19.46	18.22
2.5	41.52	39.07
3	19.76	21.07
3.5	2.42	2.94
4	0.31	0.48
>4	2.07	3.44
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

NSBE-T14

Sample 1



Station Information

Latitude, Longitude:	42.990282	-70.668139
Water Depth (m):	26.8	
Sample Weight (g):	208.8	
Date Collected, Analyzed:	8/8/2017	3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Medium Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Medium Sand

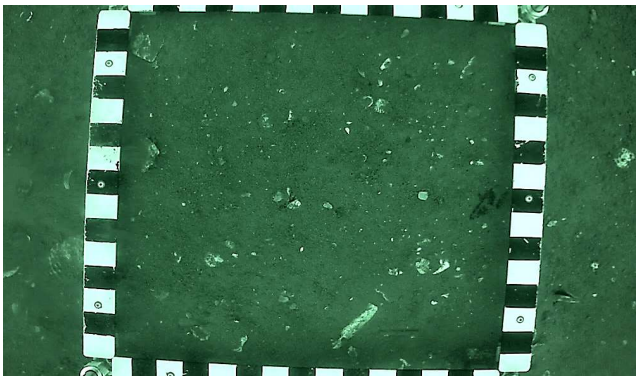
Statistics

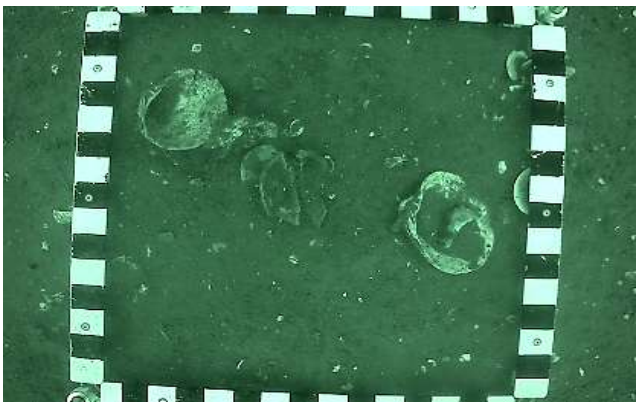
Gravel %:	4.4
Pebble %:	1.4
Granule %:	2.9
Sand %:	94.5
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	1.79
Mean size (mm):	0.29
Sorting (phi):	1.058
Skewness (phi):	-0.361
Kurtosis (phi):	1.312
D_{10} (phi):	0.13
D_{10} (mm):	0.91
D_{50} (phi):	1.96
D_{50} (mm):	0.26
LOI % (450°C):	0.5

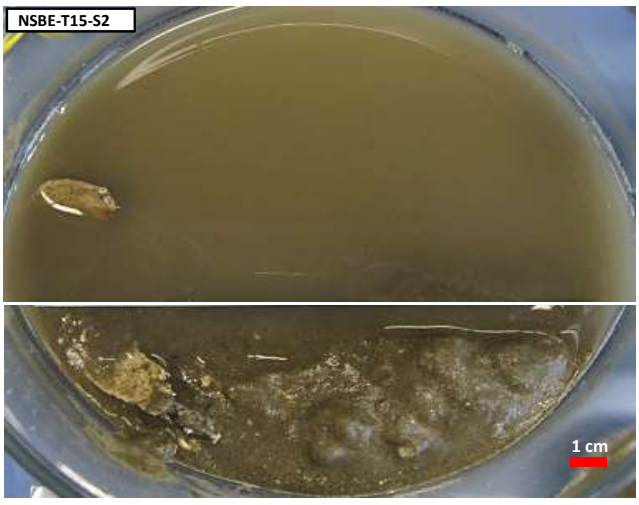
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.54
-2.5	0.43
-2	0.45
-1.5	1.21
-1	1.74
-0.5	2.22
0	2.52
0.5	3.30
1	6.94
1.5	11.94
2	20.53
2.5	25.48
3	18.46
3.5	2.80
4	0.30
>4	1.14
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T15

Sample 2







Station Information

Latitude, Longitude:	42.991793	-70.674793
Water Depth (m):	29.9	
Sample Weight (g):	140.4	
Date Collected, Analyzed:	8/8/2017	3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

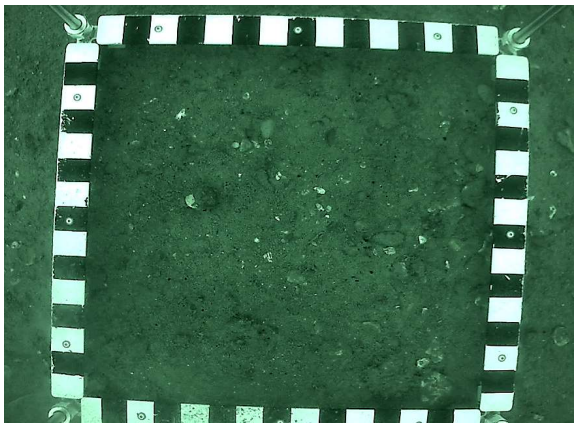
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

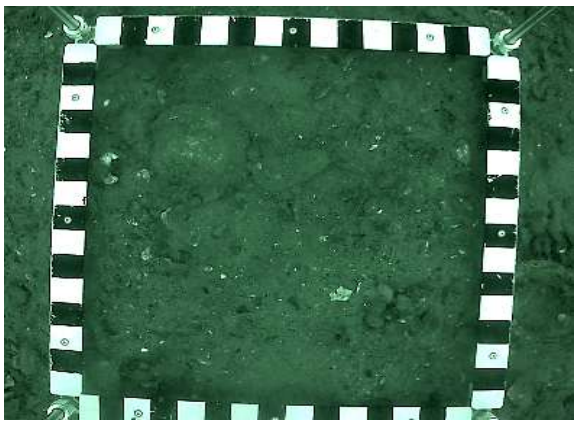
Statistics

Gravel %:	1.6
Pebble %:	1.6
Granule %:	0.0
Sand %:	95.7
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.31
Mean size (mm):	0.20
Sorting (phi):	0.616
Skewness (phi):	-0.070
Kurtosis (phi):	1.167
D_{10} (phi):	1.54
D_{10} (mm):	0.34
D_{50} (phi):	2.33
D_{50} (mm):	0.20
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.55
-2.5	0.00
-2	0.00
-1.5	0.03
-1	0.02
-0.5	0.07
0	0.09
0.5	0.18
1	1.09
1.5	5.38
2	17.65
2.5	34.17
3	31.18
3.5	5.24
4	0.66
>4	2.70
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

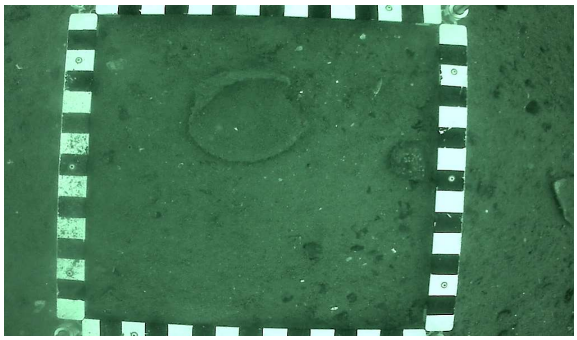
NSBE-T20

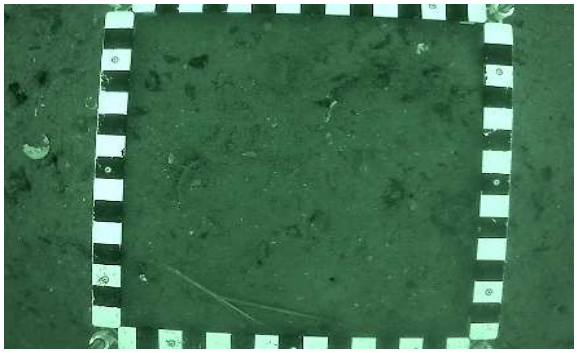




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.987371	-70.694519	42.987267	-70.694491
Water Depth (m):	25.3		25.3	
Sample Weight (g):	358.1		251.8	
Date Collected, Analyzed:	8/8/2017	4/18/2018	8/8/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Fine Gravel	
Mean Size:	Very Coarse Sand		Coarse Sand	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Very Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	51.9		31.2	
Pebble %:	48.9		27.8	
Granule %:	3.0		3.3	
Sand %:	46.7		66.7	
Mud %:	1.4		2.2	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-3.24		2.24	
Mode 2 (phi):	2.24		-3.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-0.86		0.53	
Mean size (mm):	1.81		0.69	
Sorting (phi):	2.449		2.358	
Skewness (phi):	0.386		-0.663	
Kurtosis (phi):	0.513		0.563	
D_{10} (phi):	-3.46		-3.17	
D_{10} (mm):	11.00		9.03	
D_{50} (phi):	-1.64		1.83	
D_{50} (mm):	3.12		0.28	
LOI % (450°C):	0.5		0.6	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	2.05		0.00	
-3.5	6.62		3.50	
-3	24.54		10.14	
-2.5	10.88		9.58	
-2	4.80		4.60	
-1.5	1.59		1.82	
-1	1.45		1.53	
-0.5	1.63		1.51	
0	1.58		1.77	
0.5	1.85		2.38	
1	2.32		2.85	
1.5	2.37		3.52	
2	6.60		10.39	
2.5	18.14		25.20	
3	10.42		15.97	
3.5	1.52		2.66	
4	0.28		0.42	
>4	1.35		2.16	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

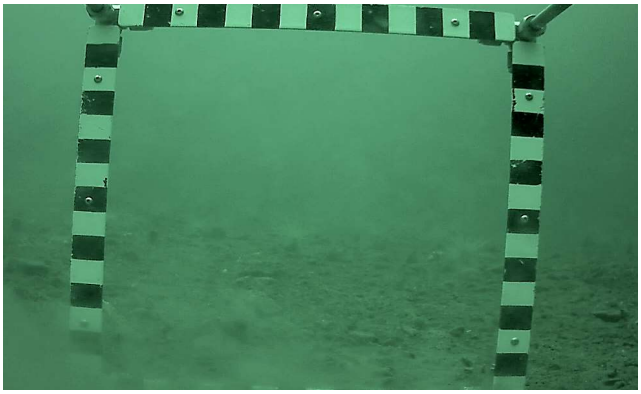
NSBE-T21A

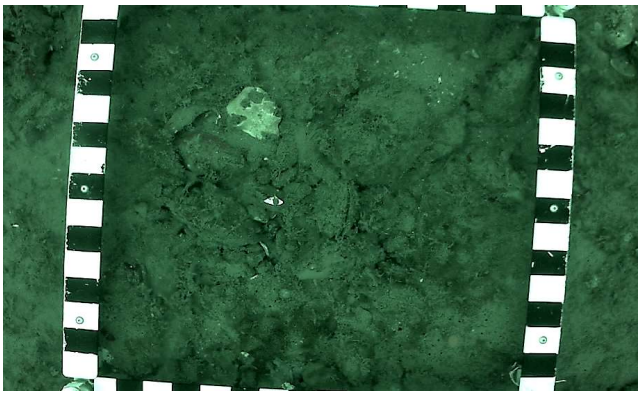


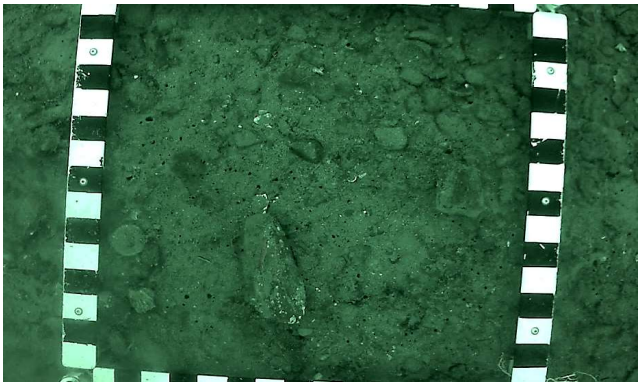


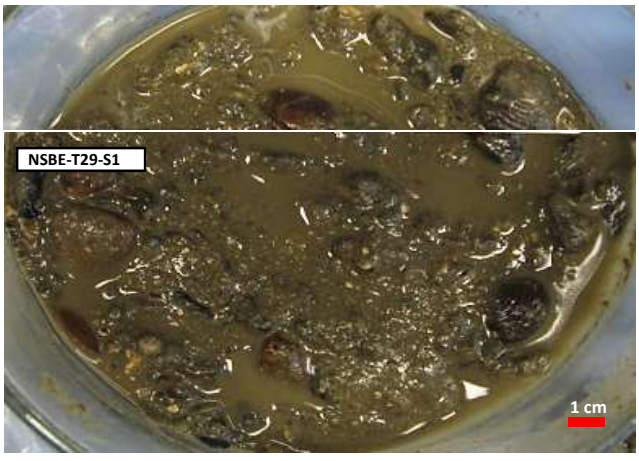
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.991405	-70.702695	42.991447	-70.702537
Water Depth (m):	27.4		27.4	
Sample Weight (g):	300.2		297.6	
Date Collected, Analyzed:	8/8/2017	4/18/2018	8/8/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Medium Gravel	
Mean Size:	Coarse Sand		Coarse Sand	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	40.5		31.9	
Pebble %:	38.1		29.6	
Granule %:	2.4		2.3	
Sand %:	57.5		64.8	
Mud %:	2.0		3.3	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	1.75		1.75	
Mode 2 (phi):	-3.74		-3.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.05		0.30	
Mean size (mm):	0.97		0.81	
Sorting (phi):	2.493		2.471	
Skewness (phi):	-0.592		-0.626	
Kurtosis (phi):	0.523		0.573	
D_{10} (phi):	-3.70		-3.44	
D_{10} (mm):	13.03		10.82	
D_{50} (phi):	1.33		1.64	
D_{50} (mm):	0.40		0.32	
LOI % (450°C):	0.5		0.8	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	17.37		8.61	
-3	14.56		13.32	
-2.5	4.70		6.23	
-2	1.45		1.47	
-1.5	1.31		1.23	
-1	1.11		1.05	
-0.5	1.20		1.18	
0	0.99		0.96	
0.5	1.22		1.22	
1	2.32		2.11	
1.5	5.69		5.65	
2	20.26		23.58	
2.5	16.58		17.83	
3	7.25		9.33	
3.5	1.57		2.42	
4	0.40		0.54	
>4	2.02		3.27	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T29









Sample 1

Station Information

Latitude, Longitude:	42.979621	-70.679554
Water Depth (m):	26.5	
Sample Weight (g):	318.5	
Date Collected, Analyzed:	8/15/2017	5/22/2017

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

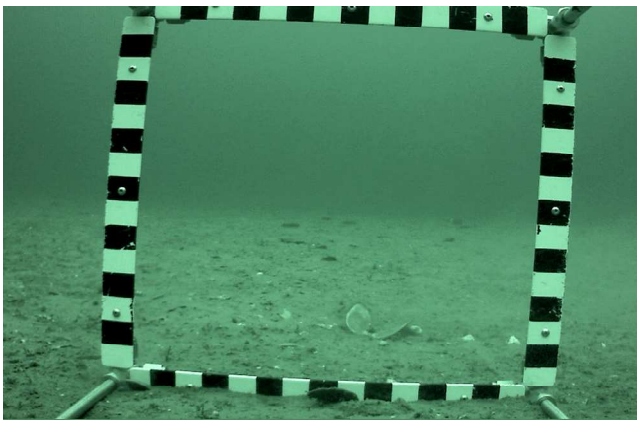
Statistics

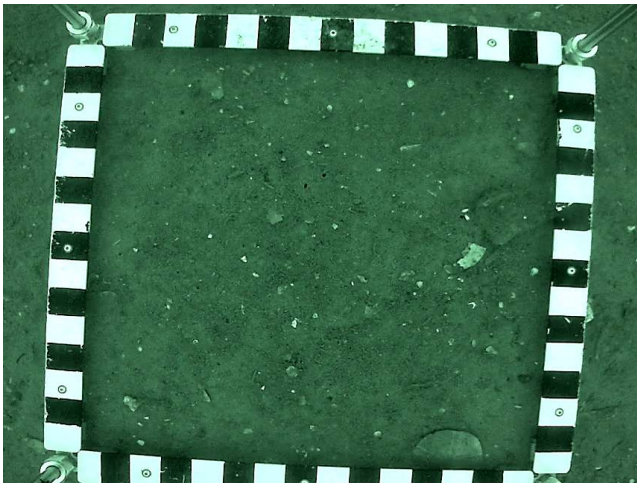
Gravel %:	48.7
Pebble %:	39.4
Granule %:	9.4
Sand %:	48.5
Mud %:	2.7
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.25
Mode 3 (phi):	N/A
Mean size (phi):	-0.74
Mean size (mm):	1.67
Sorting (phi):	2.505
Skewness (phi):	0.089
Kurtosis (phi):	0.639
D_{10} (phi):	-3.75
D_{10} (mm):	13.49
D_{50} (phi):	-0.84
D_{50} (mm):	1.79
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	2.05
-3.5	16.63
-3	5.69
-2.5	8.24
-2	6.78
-1.5	4.90
-1	4.47
-0.5	4.04
0	3.76
0.5	4.30
1	6.15
1.5	7.42
2	6.70
2.5	6.91
3	6.49
3.5	2.14
4	0.61
>4	2.73
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T30

Sample 1





Station Information

Latitude, Longitude:	42.985811	-70.671644
Water Depth (m):	26.2	
Sample Weight (g):	154.7	
Date Collected, Analyzed:	8/15/2017	4/4/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

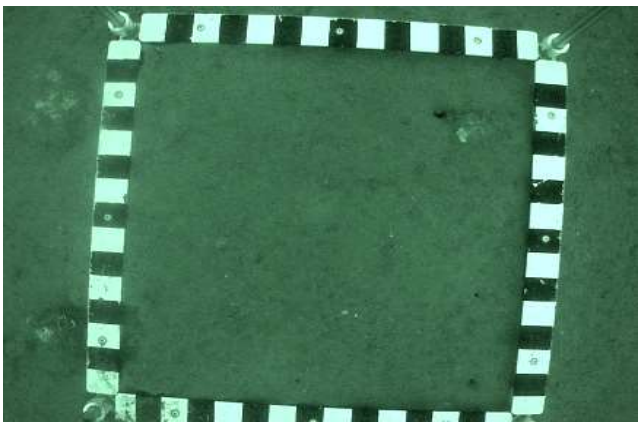
Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

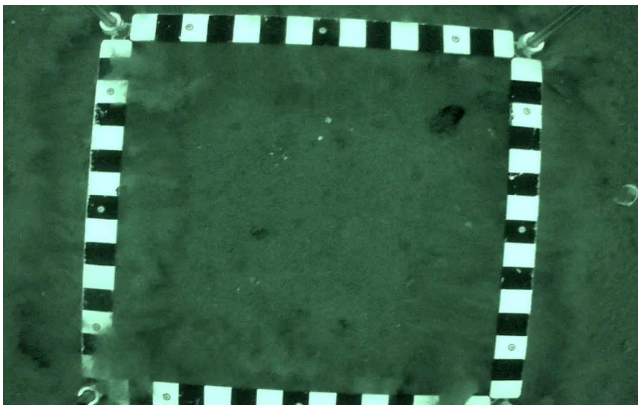
Statistics

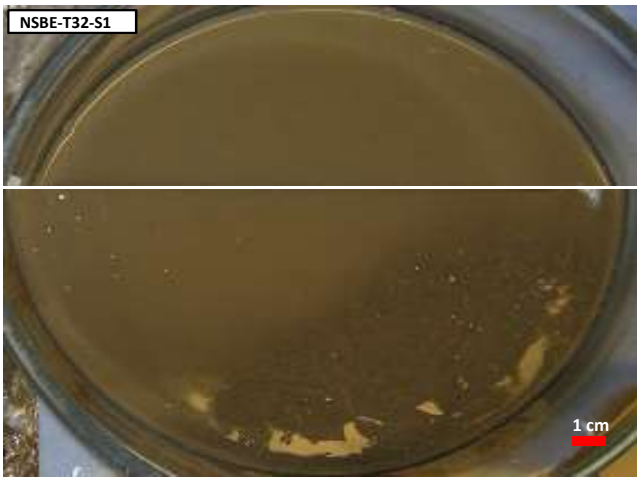
Gravel %:	1.3
Pebble %:	0.2
Granule %:	1.1
Sand %:	96.5
Mud %:	2.2
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.25
Mean size (mm):	0.21
Sorting (phi):	0.779
Skewness (phi):	-0.215
Kurtosis (phi):	1.429
D_{10} (phi):	1.25
D_{10} (mm):	0.42
D_{50} (phi):	2.28
D_{50} (mm):	0.21
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.16
-1.5	0.29
-1	0.81
-0.5	1.23
0	1.74
0.5	1.55
1	1.97
1.5	4.52
2	19.29
2.5	30.67
3	29.49
3.5	5.34
4	0.70
>4	2.24
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T32







Sample 1

Station Information

Latitude, Longitude:	42.985106	-70.663309
Water Depth (m):	34.7	
Sample Weight (g):	112.7	
Date Collected, Analyzed:	8/15/2017	4/4/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

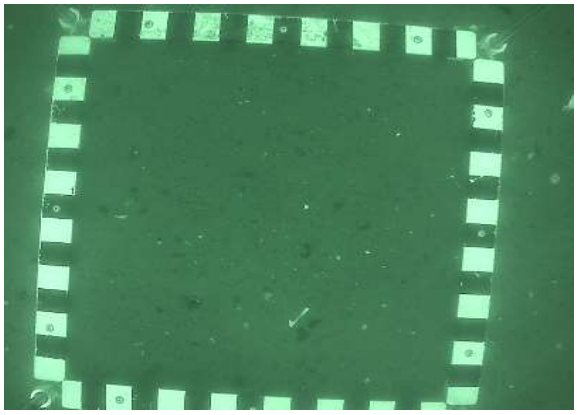
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

Statistics

Gravel %:	1.2
Pebble %:	0.8
Granule %:	0.4
Sand %:	90.0
Mud %:	8.8
Silt %:	4.3
Clay %:	4.5
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.78
Mean size (mm):	0.15
Sorting (phi):	1.177
Skewness (phi):	0.341
Kurtosis (phi):	3.950
D_{10} (phi):	2.06
D_{10} (mm):	0.24
D_{50} (phi):	2.76
D_{50} (mm):	0.15
LOI % (450°C):	0.9

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.63
-2.5	0.00
-2	0.17
-1.5	0.22
-1	0.17
-0.5	0.12
0	0.24
0.5	0.31
1	0.68
1.5	1.54
2	3.82
2.5	16.35
3	47.50
3.5	16.14
4	3.34
>4	N/A
5	1.79
6	1.00
7	0.38
8	1.15
9	0.75
10	0.69
Smaller than 10	3.01

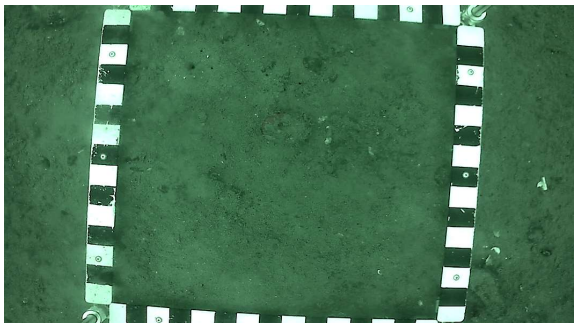
NSBE-T36

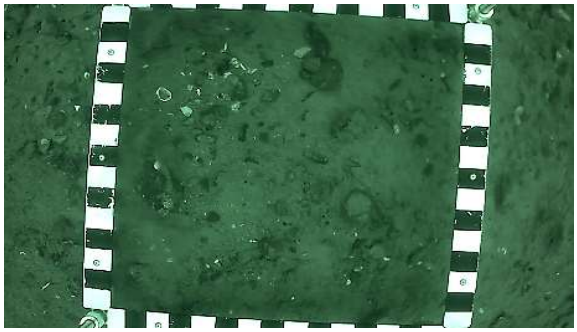


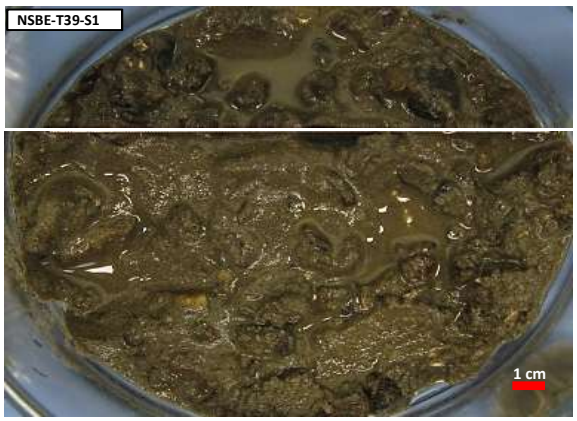
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.995784	-70.710278	42.995662	-70.710267
Water Depth (m):	25.6		25.6	
Sample Weight (g):	205.3		205.5	
Date Collected, Analyzed:	8/16/2017	4/4/2018	8/16/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebbly		Pebbly	
Subgroup:	Pebbly Muddy Sand		Pebbly Fine Sand	
Gradistat Results				
Textural Group (GSM):	Gravelly Muddy Sand		Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravelly Very Coarse Silty Fine Sand		Medium Gravelly Fine Sand	
Mean Size:	Fine Sand		Medium Sand	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebbly Very Coarse Silty Fine Sand		Pebbly Fine Sand	
Mean Size:	Fine Sand		Medium Sand	
Statistics				
Gravel %:	11.8		18.4	
Pebble %:	7.9		13.1	
Granule %:	3.9		5.3	
Sand %:	74.8		77.9	
Mud %:	13.5		3.7	
Silt %:	8.4		N/A	
Clay %:	5.1		N/A	
Modes:	Unimodal		Bimodal	
Mode 1 (phi):	2.74		2.74	
Mode 2 (phi):	N/A		-3.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.20		1.20	
Mean size (mm):	0.22		0.44	
Sorting (phi):	2.550		2.178	
Skewness (phi):	-0.182		-0.532	
Kurtosis (phi):	2.611		1.109	
D_{10} (phi):	-1.47		-2.56	
D_{10} (mm):	2.76		5.89	
D_{50} (phi):	2.63		2.01	
D_{50} (mm):	0.16		0.25	
LOI % (450°C):	1.4		0.8	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	1.72	3.50
-3	2.49	4.89
-2.5	2.24	1.88
-2	1.42	2.81
-1.5	2.09	2.62
-1	1.79	2.69
-0.5	1.87	2.81
0	1.63	2.64
0.5	2.03	3.24
1	2.92	4.77
1.5	3.66	7.05
2	6.36	10.93
2.5	12.87	12.95
3	23.07	20.95
3.5	14.22	10.24
4	6.14	2.36
>4	N/A	3.69
5	3.36	N/A
6	2.40	N/A
7	1.64	N/A
8	1.01	N/A
9	0.84	N/A
10	2.63	N/A
Smaller than 10	1.60	N/A

NSBE-T39

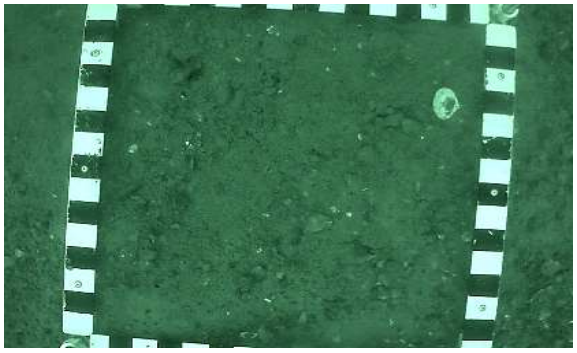


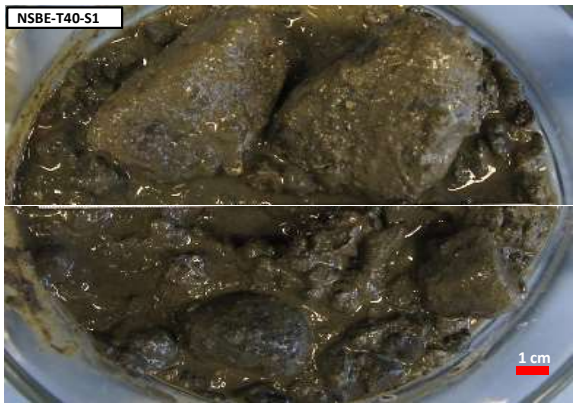


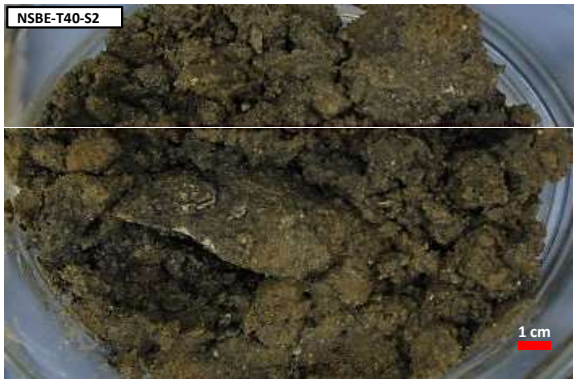


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.005076	-70.694332	43.004815	-70.694574
Water Depth (m):	23.5		23.8	
Sample Weight (g):	362.2		312.0	
Date Collected, Analyzed:	8/16/2017	4/4/2018	8/16/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Medium Gravel	
Mean Size:	Very Coarse Sand		Coarse Sand	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Very Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	50.9		41.5	
Pebble %:	49.3		40.8	
Granule %:	1.6		0.6	
Sand %:	47.3		55.6	
Mud %:	1.8		3.0	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	-3.24		-3.24	
Mode 2 (phi):	2.24		2.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-0.96		0.20	
Mean size (mm):	1.95		0.87	
Sorting (phi):	2.607		2.651	
Skewness (phi):	0.295		-0.545	
Kurtosis (phi):	0.527		0.526	
D_{10} (phi):	-3.90		-3.75	
D_{10} (mm):	14.91		13.44	
D_{50} (phi):	-1.59		1.45	
D_{50} (mm):	3.00		0.37	
LOI % (450°C):	0.5		0.6	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	6.69		2.56	
-3.5	16.69		15.19	
-3	17.31		16.58	
-2.5	7.21		5.61	
-2	1.40		0.91	
-1.5	0.87		0.29	
-1	0.69		0.33	
-0.5	0.90		0.57	
0	0.88		0.56	
0.5	1.13		0.82	
1	2.35		1.81	
1.5	5.35		5.23	
2	11.17		13.14	
2.5	13.08		14.97	
3	9.72		14.02	
3.5	2.20		3.68	
4	0.56		0.75	
>4	1.81		3.00	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T40

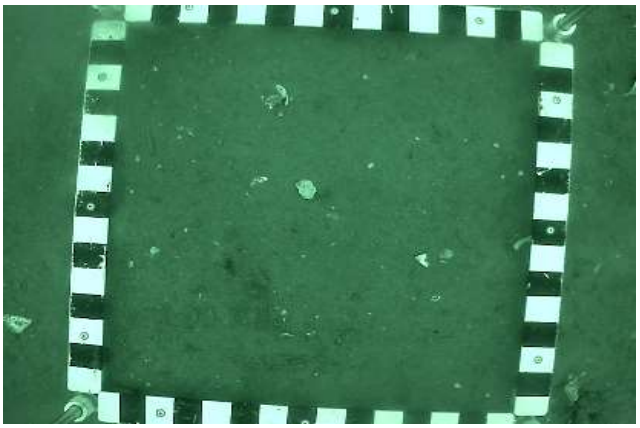


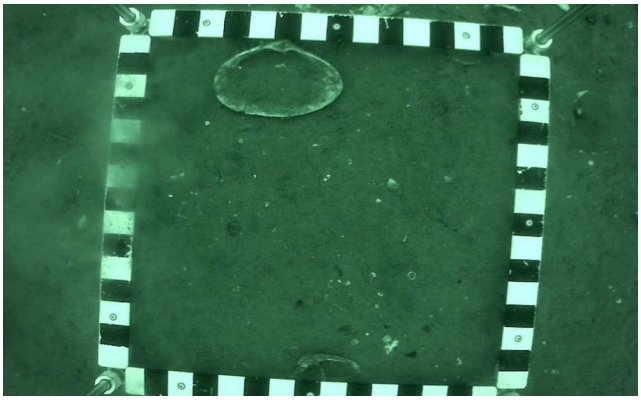


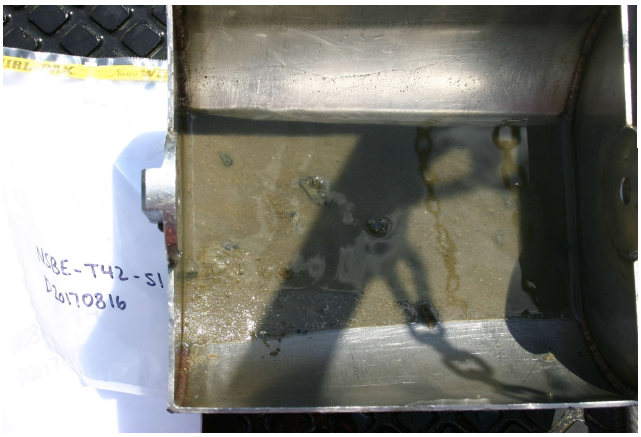


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.973863	-70.698420	42.973978	-70.698061
Water Depth (m):	32.9		32.9	
Sample Weight (g):	809.3		462.5	
Date Collected, Analyzed:	8/16/2017	4/11/2018	8/16/2017	5/23/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Pebble Mixes	
Subgroup:	Pebble Gravel		Muddy Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Muddy Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Very Coarse Gravel		Muddy Sandy Very Coarse Gravel	
Mean Size:	Medium Gravel		Very Fine Gravel	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Muddy Sandy Pebble Gravel	
Mean Size:	Pebble Gravel		Granule Gravel	
Statistics				
Gravel %:	82.3		55.8	
Pebble %:	77.9		50.1	
Granule %:	4.3		5.7	
Sand %:	16.1		39.6	
Mud %:	1.6		4.6	
Silt %:	N/A		2.3	
Clay %:	N/A		2.3	
Modes:	Bimodal		Polymodal	
Mode 1 (phi):	-5.74		-5.24	
Mode 2 (phi):	-3.74		-3.74	
Mode 3 (phi):	N/A		0.75	
Mean size (phi):	-3.66		-1.64	
Mean size (mm):	12.68		3.12	
Sorting (phi):	2.565		3.194	
Skewness (phi):	0.682		0.209	
Kurtosis (phi):	1.119		0.692	
D_{10} (phi):	-5.81		-5.24	
D_{10} (mm):	55.99		37.87	
D_{50} (phi):	-4.76		-2.02	
D_{50} (mm):	27.08		4.06	
LOI % (450°C):	0.8		0.9	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	28.45		0.00	
-5	18.31		20.66	
-4.5	7.28		0.00	
-4	1.04		7.49	
-3.5	8.99		8.49	
-3	6.87		6.43	
-2.5	4.01		4.08	
-2	2.98		2.98	
-1.5	2.48		2.94	
-1	1.87		2.75	
-0.5	1.89		3.33	
0	1.47		3.56	
0.5	1.51		4.83	
1	1.91		5.78	
1.5	1.79		4.98	
2	1.96		4.14	
2.5	2.09		4.02	
3	2.54		5.85	
3.5	0.74		2.35	
4	0.22		0.78	
>4	1.63		N/A	
5	N/A		0.79	
6	N/A		0.57	
7	N/A		0.46	
8	N/A		0.46	
9	N/A		0.40	
10	N/A		0.35	
Smaller than 10	N/A		1.55	

NSBE-T42







Sample 1

Station Information

Latitude, Longitude:	42.971760	-70.670194
Water Depth (m):	37.2	
Sample Weight (g):	130.0	
Date Collected, Analyzed:	8/16/2017	4/11/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

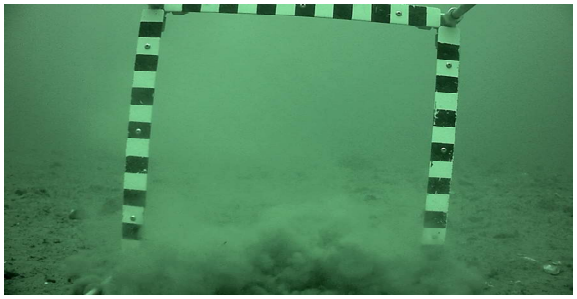
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

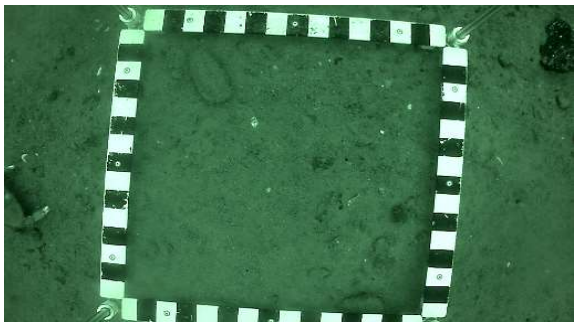
Statistics

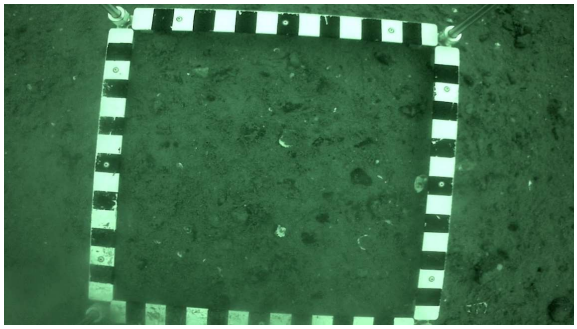
Gravel %:	1.6
Pebble %:	1.6
Granule %:	0.0
Sand %:	94.8
Mud %:	3.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.45
Mean size (mm):	0.18
Sorting (phi):	0.498
Skewness (phi):	0.066
Kurtosis (phi):	1.170
D_{10} (phi):	1.80
D_{10} (mm):	0.29
D_{50} (phi):	2.43
D_{50} (mm):	0.19
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.30
-2.5	0.30
-2	0.00
-1.5	0.00
-1	0.04
-0.5	0.07
0	0.12
0.5	0.15
1	0.41
1.5	1.39
2	10.43
2.5	39.87
3	36.88
3.5	4.90
4	0.56
>4	3.59
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

NSBE-T45

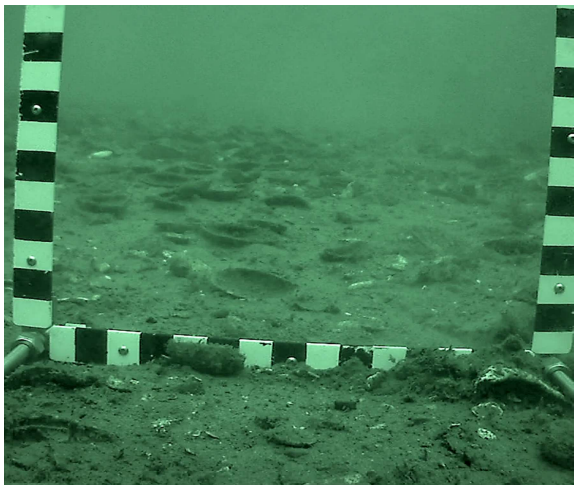


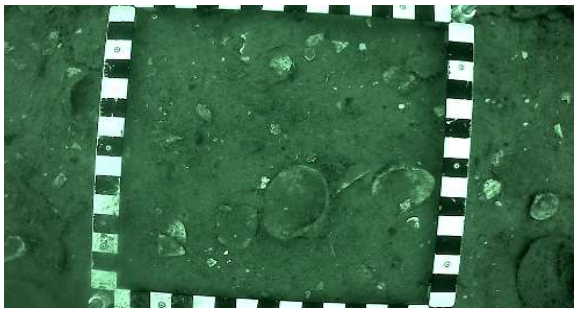


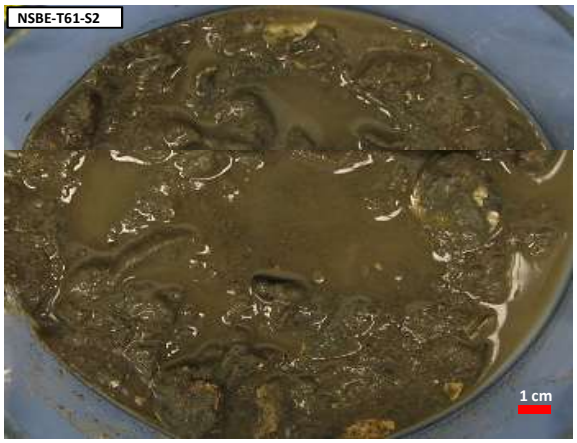


	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	43.026969	-70.648673	43.026608	-70.649007
Water Depth (m):	33.5		33.5	
Sample Weight (g):	230.6		318.4	
Date Collected, Analyzed:	8/16/2017	4/11/2018	8/16/2017	4/11/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebble Mixes	
Subgroup:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Sandy Medium Gravel	
Mean Size:	Coarse Sand		Very Fine Gravel	
Sorting:	Very Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Coarse Sand		Granule Gravel	
Statistics				
Gravel %:	31.9		61.0	
Pebble %:	29.2		53.0	
Granule %:	2.7		8.0	
Sand %:	66.0		37.8	
Mud %:	2.1		1.2	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Bimodal	
Mode 1 (phi):	2.24		-3.24	
Mode 2 (phi):	-3.74		2.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.37		-1.36	
Mean size (mm):	0.78		2.56	
Sorting (phi):	2.588		2.540	
Skewness (phi):	-0.676		0.461	
Kurtosis (phi):	0.531		0.645	
D_{10} (phi):	-3.66		-4.06	
D_{10} (mm):	12.62		16.66	
D_{50} (phi):	1.84		-2.30	
D_{50} (mm):	0.28		4.93	
LOI % (450°C):	0.7		0.5	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		11.36	
-3.5	15.06		14.05	
-3	9.68		14.49	
-2.5	2.38		8.25	
-2	2.12		4.89	
-1.5	1.50		4.30	
-1	1.15		3.65	
-0.5	1.46		4.44	
0	1.48		3.81	
0.5	1.50		3.23	
1	1.95		2.66	
1.5	3.66		2.45	
2	11.67		5.21	
2.5	23.37		8.97	
3	17.00		5.78	
3.5	3.43		1.02	
4	0.49		0.21	
>4	2.09		1.22	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T61

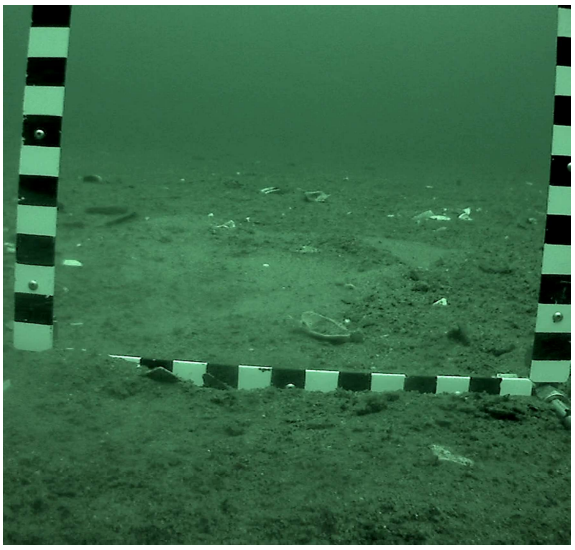


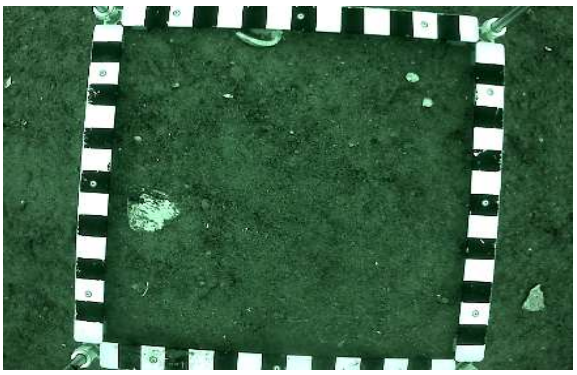




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.992317	-70.659907	42.992124	-70.660016
Water Depth (m):	30.2		30.2	
Sample Weight (g):	213.6		183.3	
Date Collected, Analyzed:	8/16/2017	4/11/2018	8/16/2017	8/17/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Pebble Mixes		Pebbly	
Subgroup:	Sandy Pebble Gravel		Pebbly Fine Sand	
Gradistat Results				
Textural Group (GSM):	Sandy Gravel		Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Sandy Medium Gravel		Medium Gravelly Fine Sand	
Mean Size:	Coarse Sand		Medium Sand	
Sorting:	Very Poorly Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Sandy Pebble Gravel		Pebbly Fine Sand	
Mean Size:	Coarse Sand		Medium Sand	
Statistics				
Gravel %:	30.9		12.2	
Pebble %:	26.9		10.5	
Granule %:	4.0		1.6	
Sand %:	66.2		85.4	
Mud %:	2.9		2.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Bimodal		Unimodal	
Mode 1 (phi):	2.24		2.24	
Mode 2 (phi):	-3.24		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.30		1.58	
Mean size (mm):	0.81		0.34	
Sorting (phi):	2.305		1.612	
Skewness (phi):	-0.563		-0.562	
Kurtosis (phi):	0.575		1.884	
D_{10} (phi):	-3.18		-2.20	
D_{10} (mm):	9.07		4.60	
D_{50} (phi):	1.41		2.01	
D_{50} (mm):	0.38		0.25	
LOI % (450°C):	0.8		0.8	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	1.63		2.43	
-3	13.34		3.28	
-2.5	8.76		3.54	
-2	3.13		1.30	
-1.5	1.96		0.94	
-1	2.06		0.69	
-0.5	2.64		1.42	
0	3.04		2.21	
0.5	3.46		3.51	
1	4.58		4.44	
1.5	6.42		7.43	
2	13.83		18.33	
2.5	20.87		27.33	
3	9.65		17.30	
3.5	1.41		2.93	
4	0.32		0.53	
>4	2.88		2.41	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

NSBE-T62





Station Information	Sample 1		Sample 2	
Latitude, Longitude:	42.985456	-70.653036	42.985586	-70.652722
Water Depth (m):	23.8		23.8	
Sample Weight (g):	328.7		195.4	
Date Collected, Analyzed:	8/15/2017	4/11/2018	8/15/2017	5/23/2018

CMECS Classifications		
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Pebbly	Slightly Pebbly
Subgroup:	Pebbly Coarse Sand	Slightly Pebbly Coarse Sand

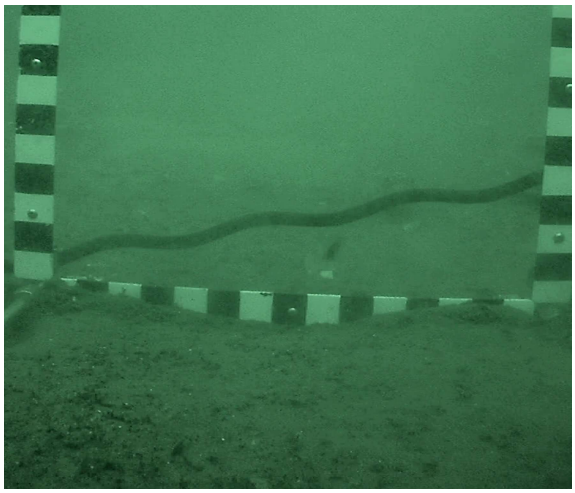
Gradistat Results		
Textural Group (GSM):	Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Medium Gravelly Coarse Sand	Slightly Medium Gravelly Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand
Sorting:	Poorly Sorted	Moderately Sorted

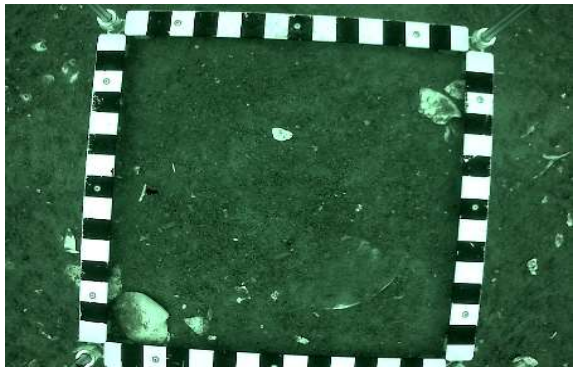
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale		
Sediment Name:	Pebbly Coarse Sand	Slightly Pebbly Coarse Sand
Mean Size:	Coarse Sand	Coarse Sand

Statistics		
Gravel %:	13.6	3.7
Pebble %:	9.0	2.5
Granule %:	4.5	1.2
Sand %:	86.2	95.4
Mud %:	0.2	0.8
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	0.75	0.75
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	0.53	0.83
Mean size (mm):	0.69	0.56
Sorting (phi):	1.282	0.742
Skewness (phi):	-0.376	-0.065
Kurtosis (phi):	1.684	1.068
D_{10} (phi):	-1.77	-0.11
D_{10} (mm):	3.41	1.08
D_{50} (phi):	0.70	0.82
D_{50} (mm):	0.62	0.56
LOI % (450°C):	0.6	0.5

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	2.56	0.00
-3	2.69	1.37
-2.5	1.95	0.40
-2	1.83	0.77
-1.5	2.18	0.35
-1	2.35	0.83
-0.5	3.33	1.78
0	6.64	5.82
0.5	15.94	19.24
1	26.33	29.82
1.5	18.04	22.08
2	13.46	15.12
2.5	2.19	1.26
3	0.24	0.19
3.5	0.03	0.09
4	0.01	0.03
>4	0.23	0.84
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

NSBE-T64





Station Information	Sample 1		Sample 2	
Latitude, Longitude:	42.978964	-70.663495	42.979064	-70.663322
Water Depth (m):	25.6		25.6	
Sample Weight (g):	182.2		112.7	
Date Collected, Analyzed:	8/15/2017	4/18/2018	8/15/2017	5/23/2018

CMECS Classifications		
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate	Fine Unconsol. Substrate
Group:	Slightly Granuley	Slightly Granuley
Subgroup:	Slightly Granuley Medium Sand	Slightly Granuley Medium Sand

Gradistat Results		
Textural Group (GSM):	Slightly Gravelly Sand	Slightly Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Slightly Very Fine Gravelly Medium Sand	Slightly Very Fine Gravelly Medium Sand
Mean Size:	Medium Sand	Medium Sand
Sorting:	Moderately Well Sorted	Moderately Well Sorted

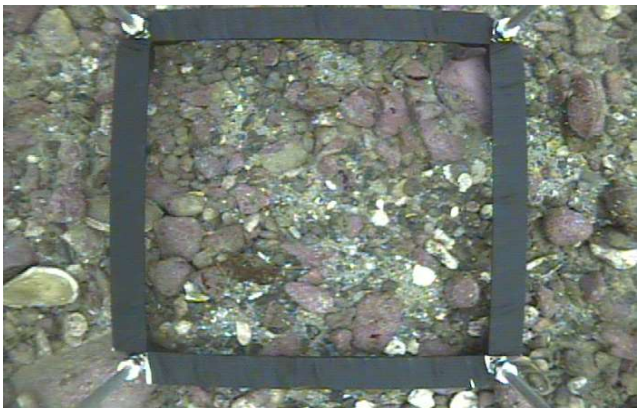
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale		
Sediment Name:	Slightly Granular Medium Sand	Slightly Granular Medium Sand
Mean Size:	Medium Sand	Medium Sand

Statistics		
Gravel %:	0.0	0.0
Pebble %:	0.0	0.0
Granule %:	0.0	0.0
Sand %:	99.4	99.2
Mud %:	0.6	0.8
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	1.75	1.75
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	1.66	1.87
Mean size (mm):	0.32	0.27
Sorting (phi):	0.659	0.614
Skewness (phi):	-0.260	-0.142
Kurtosis (phi):	1.006	1.292
D_{10} (phi):	0.66	1.00
D_{10} (mm):	0.63	0.50
D_{50} (phi):	1.75	1.90
D_{50} (mm):	0.30	0.27
LOI % (450°C):	0.5	0.5

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.00	0.00
-1	0.05	0.04
-0.5	0.19	0.16
0	0.95	0.71
0.5	5.08	3.04
1	11.26	5.99
1.5	13.92	10.13
2	36.19	37.10
2.5	27.24	31.65
3	4.32	9.74
3.5	0.19	0.60
4	0.03	0.05
>4	0.58	0.79
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

SH12-04

Sample 1



Station Information

Latitude, Longitude:	43.048156	-70.639286
Water Depth (m):	24.4	
Sample Weight (g):	696.9	
Date Collected, Analyzed:	6/28/2012	3/1, 3/29/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Very Coarse Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

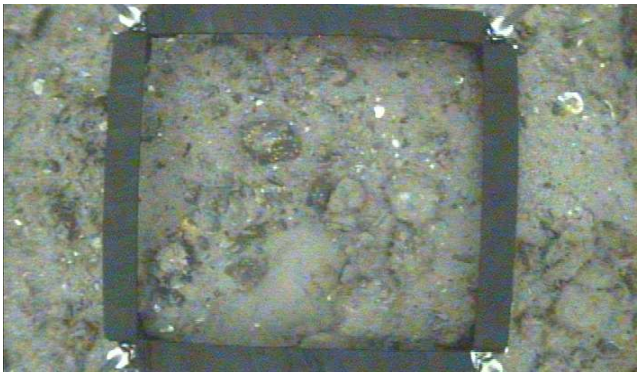
Sediment Name:	Sandy Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	64.4
Pebble %:	58.6
Granule %:	5.8
Sand %:	33.9
Mud %:	1.7
Silt %:	N/A
Clay %:	N/A
Modes:	Polymodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	-4.24
Mean size (phi):	-2.24
Mean size (mm):	4.71
Sorting (phi):	2.786
Skewness (phi):	0.363
Kurtosis (phi):	0.618
D_{10} (phi):	-5.24
D_{10} (mm):	37.82
D_{50} (phi):	-2.98
D_{50} (mm):	7.87
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	20.55
-4.5	4.47
-4	8.31
-3.5	6.35
-3	10.10
-2.5	4.66
-2	4.15
-1.5	3.30
-1	2.54
-0.5	2.58
0	2.62
0.5	3.60
1	5.99
1.5	6.53
2	6.09
2.5	4.00
3	1.87
3.5	0.38
4	0.20
>4	1.70
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-05



Sample 1

Station Information

Latitude, Longitude:	43.043894	-70.634703
Water Depth (m):	32.6	
Sample Weight (g):	221.2	
Date Collected, Analyzed:	6/28/2012	3/1/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Muddy Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Muddy Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Muddy Sandy Coarse Gavel
Mean Size:	Very Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Muddy Sandy Pebble Gravel
Mean Size:	Very Coarse Sand

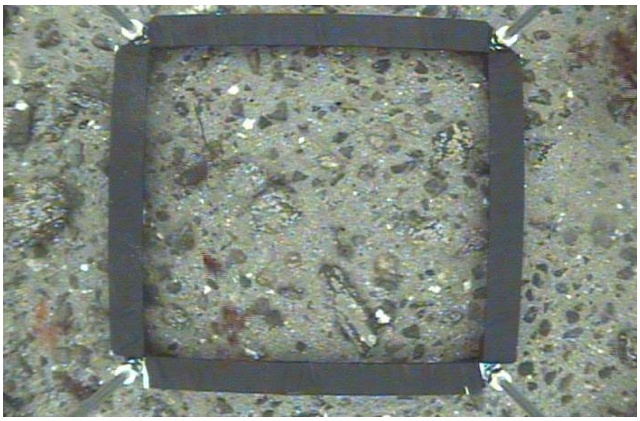
Statistics

Gravel %:	38.1
Pebble %:	29.7
Granule %:	8.4
Sand %:	55.4
Mud %:	6.5
Silt %:	3.5
Clay %:	3.0
Modes:	Bimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	-4.73
Mode 3 (phi):	N/A
Mean size (phi):	-0.02
Mean size (mm):	1.01
Sorting (phi):	3.039
Skewness (phi):	-0.260
Kurtosis (phi):	0.816
D_{10} (phi):	-4.55
D_{10} (mm):	23.49
D_{50} (phi):	0.77
D_{50} (mm):	0.59
LOI % (450°C):	1.0

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	11.61
-4	0.00
-3.5	5.13
-3	5.46
-2.5	3.12
-2	4.44
-1.5	4.48
-1	3.91
-0.5	4.00
0	3.12
0.5	2.88
1	3.41
1.5	5.00
2	10.18
2.5	11.99
3	10.90
3.5	2.83
4	1.07
>4	N/A
5	1.63
6	0.74
7	0.58
8	0.52
9	0.55
10	0.50
Smaller than 10	1.94

SH12-09

Sample 1



Station Information

Latitude, Longitude:	43.055544	-70.623825
Water Depth (m):	33.5	
Sample Weight (g):	324.9	
Date Collected, Analyzed:	6/28/2012	3/1, 3/29/2018

CMECS Classifications

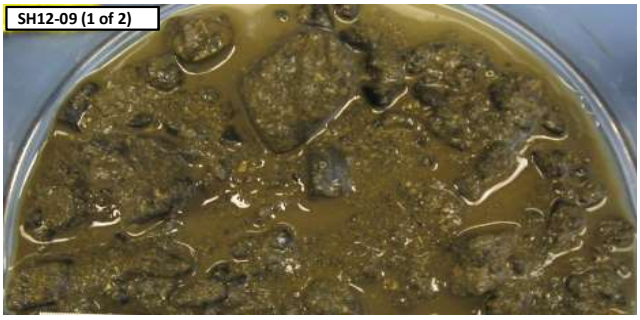
Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

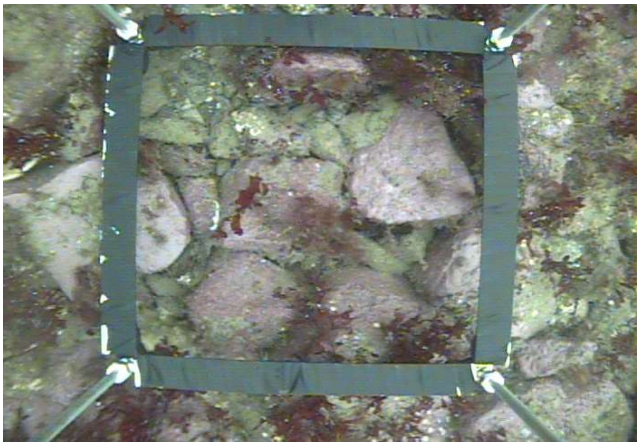


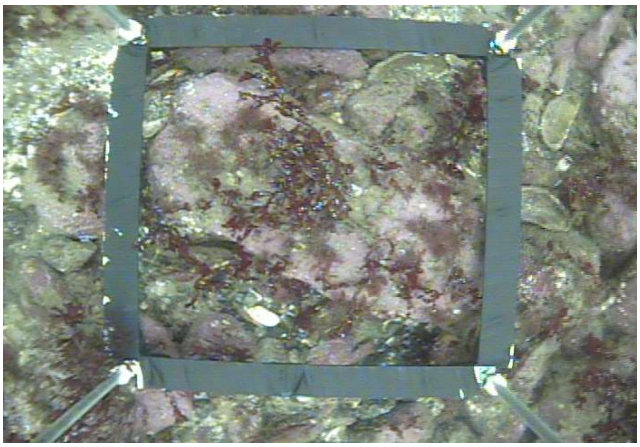
Statistics

Gravel %:	60.7
Pebble %:	52.1
Granule %:	8.6
Sand %:	36.2
Mud %:	3.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-4.73
Mode 2 (phi):	2.24
Mode 3 (phi):	N/A
Mean size (phi):	-1.56
Mean size (mm):	2.95
Sorting (phi):	2.864
Skewness (phi):	0.300
Kurtosis (phi):	0.641
D_{10} (phi):	-4.73
D_{10} (mm):	26.48
D_{50} (phi):	-2.17
D_{50} (mm):	4.50
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	19.66
-4	0.00
-3.5	13.30
-3	7.84
-2.5	5.33
-2	5.98
-1.5	4.58
-1	4.00
-0.5	2.93
0	1.65
0.5	1.93
1	4.45
1.5	5.64
2	5.84
2.5	6.88
3	4.66
3.5	1.53
4	0.67
>4	3.13
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-11





Sample 1

Station Information

Latitude, Longitude:	43.057017	-70.650367
Water Depth (m):	N/A	
Sample Weight (g):	71.7	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Coarse Gravel
Mean Size:	Coarse Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

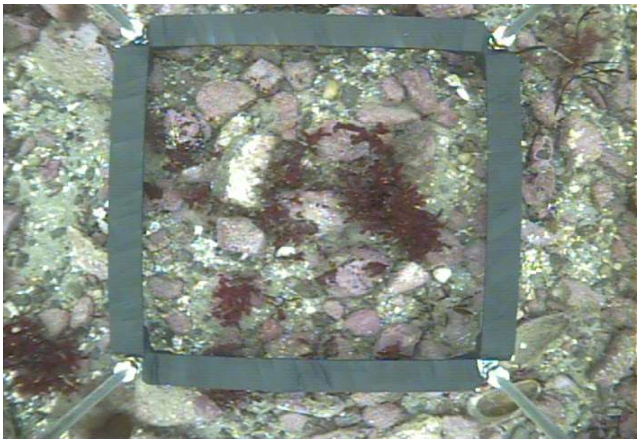
Statistics

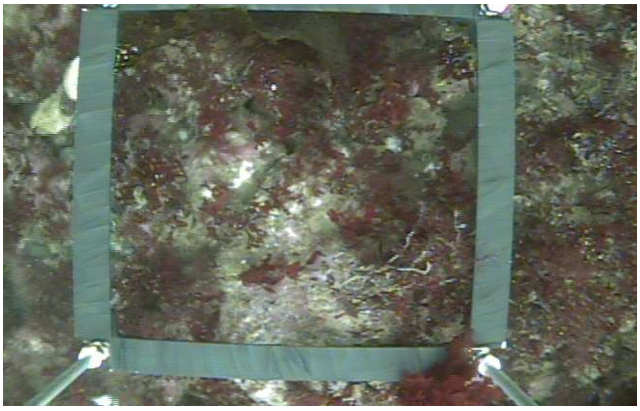
Gravel %:	93.1
Pebble %:	91.0
Granule %:	2.0
Sand %:	6.8
Mud %:	0.1
Silt %:	N/A
Clay %:	N/A
Modes:	N/A
Mode 1 (phi):	N/A
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-4.01
Mean size (mm):	16.14
Sorting (phi):	1.054
Skewness (phi):	0.399
Kurtosis (phi):	1.794
D_{10} (phi):	-4.83
D_{10} (mm):	28.48
D_{50} (phi):	-4.10
D_{50} (mm):	17.12
LOI % (450°C):	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	33.89
-4	20.17
-3.5	27.65
-3	3.82
-2.5	3.80
-2	1.69
-1.5	0.96
-1	1.08
-0.5	2.02
0	1.87
0.5	1.31
1	0.63
1.5	0.38
2	0.19
2.5	0.11
3	0.20
3.5	0.07
4	0.04
>4	0.11
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-12

Sample 1





Station Information

Latitude, Longitude:	43.094919	-70.639372
Water Depth (m):	N/A	
Sample Weight (g):	280.4	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Coarse Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

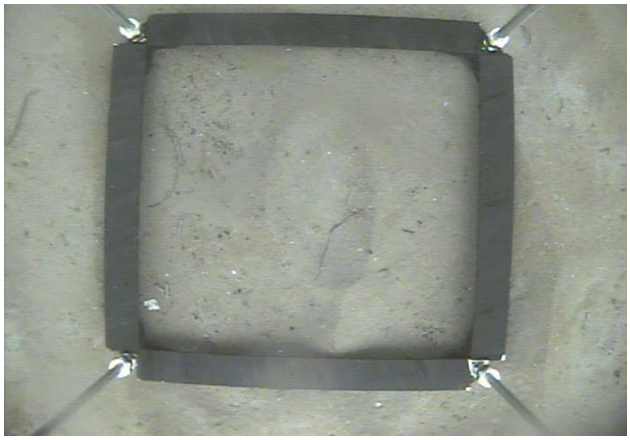
Statistics

Gravel %:	91.9
Pebble %:	89.5
Granule %:	2.3
Sand %:	7.8
Mud %:	0.4
Silt %:	N/A
Clay %:	N/A
Modes:	N/A
Mode 1 (phi):	N/A
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-4.47
Mean size (mm):	22.15
Sorting (phi):	1.573
Skewness (phi):	0.820
Kurtosis (phi):	1.941
D_{10} (phi):	-5.41
D_{10} (mm):	42.43
D_{50} (phi):	-5.07
D_{50} (mm):	33.59
LOI % (450°C):	N/A

Size Distribution (phi)	(%)
-5.5	0.00
-5	60.96
-4.5	0.00
-4	12.85
-3.5	7.32
-3	2.75
-2.5	3.27
-2	2.38
-1.5	1.15
-1	1.18
-0.5	0.92
0	0.59
0.5	0.56
1	1.03
1.5	1.49
2	1.55
2.5	0.74
3	0.42
3.5	0.30
4	0.16
>4	0.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-13

Sample 1



Station Information

Latitude, Longitude:	43.097294	-70.648036
Water Depth (m):	10.1	
Sample Weight (g):	84.2	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

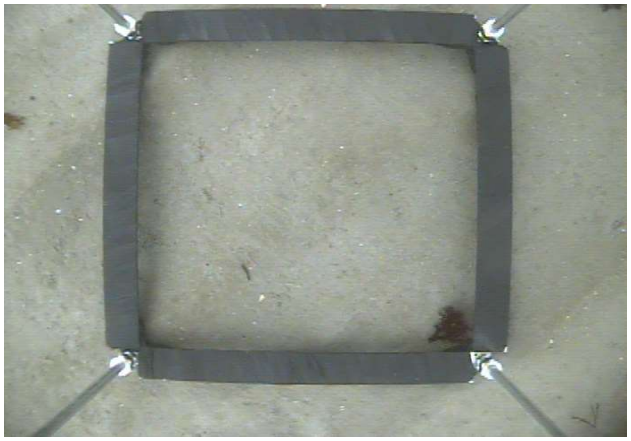
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	99.0
Mud %:	1.0
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.96
Mean size (mm):	0.13
Sorting (phi):	0.401
Skewness (phi):	0.051
Kurtosis (phi):	0.948
D_{10} (phi):	2.51
D_{10} (mm):	0.18
D_{50} (phi):	2.95
D_{50} (mm):	0.13
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.01
-0.5	0.01
0	0.01
0.5	0.01
1	0.06
1.5	0.16
2	0.83
2.5	5.97
3	47.69
3.5	38.15
4	6.10
>4	1.00
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-14

Sample 1



Station Information

Latitude, Longitude:	43.096169	-70.646881
Water Depth (m):	11.3	
Sample Weight (g):	99.8	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Very Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Slightly Granular Fine Sand
Mean Size:	Fine Sand

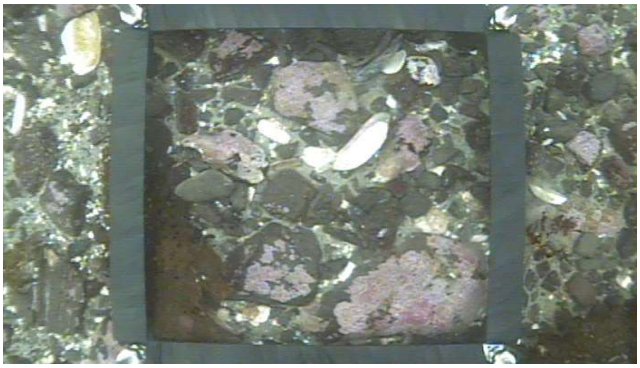
Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	98.3
Mud %:	1.6
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.98
Mean size (mm):	0.13
Sorting (phi):	0.433
Skewness (phi):	-0.011
Kurtosis (phi):	1.045
D_{10} (phi):	2.50
D_{10} (mm):	0.18
D_{50} (phi):	2.98
D_{50} (mm):	0.13
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.02
-1	0.06
-0.5	0.02
0	0.01
0.5	0.08
1	0.31
1.5	0.73
2	1.60
2.5	5.08
3	44.06
3.5	39.89
4	6.54
>4	1.60
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-15

Sample B



Station Information

Latitude, Longitude:	43.093020	-70.647627
Water Depth (m):	13.7	
Sample Weight (g):	317.6	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Sand
Mean Size:	Fine Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

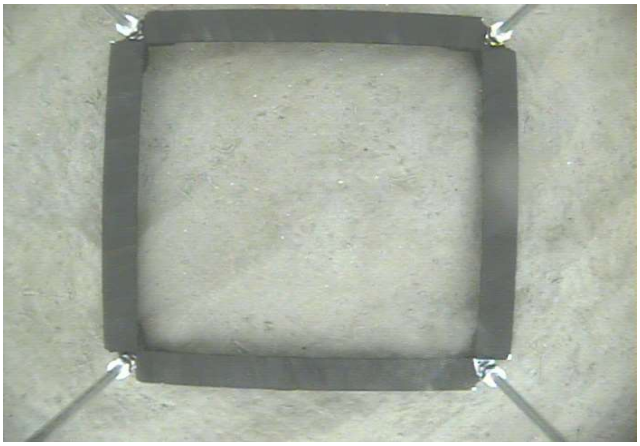
Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

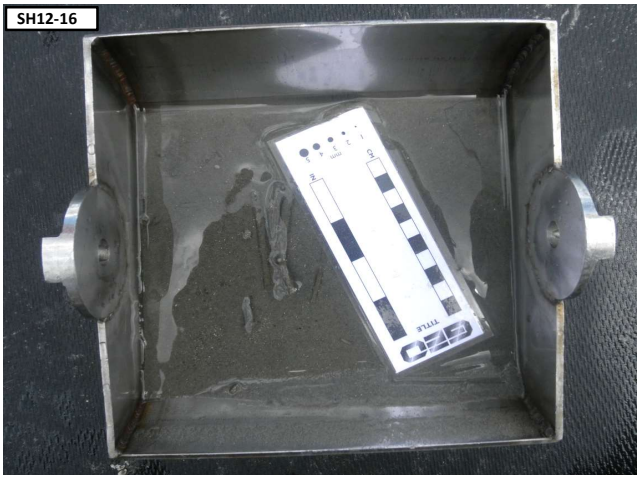
Statistics

Gravel %:	85.8
Pebble %:	79.7
Granule %:	6.2
Sand %:	13.5
Mud %:	0.7
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-4.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-2.97
Mean size (mm):	7.83
Sorting (phi):	1.848
Skewness (phi):	0.461
Kurtosis (phi):	1.841
D_{10} (phi):	-4.39
D_{10} (mm):	20.91
D_{50} (phi):	-3.23
D_{50} (mm):	9.36
LOI % (450°C):	2.2

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	6.35
-4	17.81
-3.5	16.54
-3	17.38
-2.5	13.33
-2	8.24
-1.5	4.24
-1	1.93
-0.5	0.96
0	0.51
0.5	0.45
1	0.60
1.5	0.75
2	0.85
2.5	0.96
3	3.74
3.5	3.72
4	0.90
>4	0.73
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-16





Sample 1

Station Information

Latitude, Longitude:	43.091936	-70.651581
Water Depth (m):	8.8	
Sample Weight (g):	132.6	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	N/A
Sediment Name:	Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

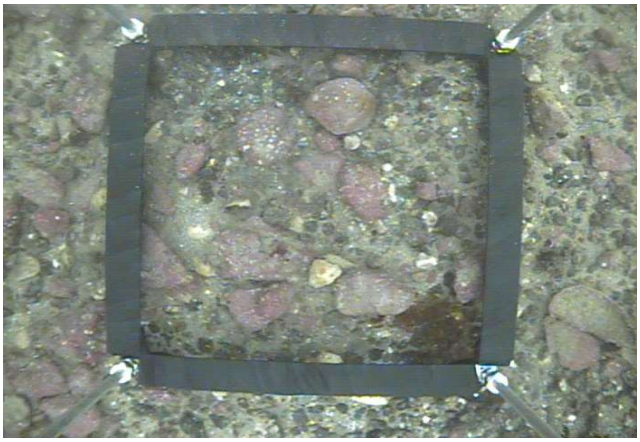
Sediment Name:	Fine Sand
Mean Size:	Very Fine Sand

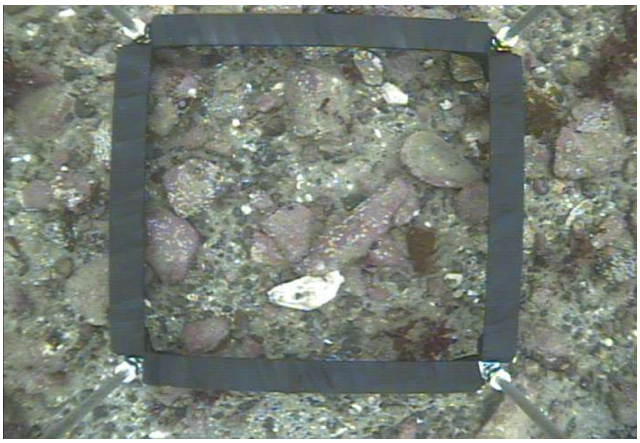
Statistics

Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	98.6
Mud %:	1.4
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.00
Mean size (mm):	0.12
Sorting (phi):	0.385
Skewness (phi):	0.096
Kurtosis (phi):	0.899
D_{10} (phi):	2.55
D_{10} (mm):	0.17
D_{50} (phi):	3.00
D_{50} (mm):	0.12
LOI % (450°C):	0.5

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.00
0	0.01
0.5	0.02
1	0.01
1.5	0.06
2	0.25
2.5	3.21
3	46.24
3.5	41.13
4	7.70
>4	1.38
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH12-17





Sample 1

Station Information

Latitude, Longitude:	43.063233	-70.663283
Water Depth (m):	22.6	
Sample Weight (g):	201.9	
Date Collected, Analyzed:	6/28/2012	3/15/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel
Textural Group (SZC):	N/A
Sediment Name:	Sandy Medium Gravel
Mean Size:	Very Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Sandy Pebble Gravel
Mean Size:	Granule Gravel

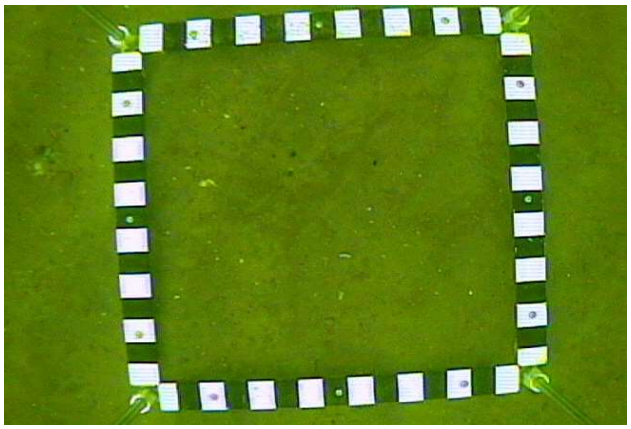
Statistics

Gravel %:	63.5
Pebble %:	53.0
Granule %:	10.5
Sand %:	35.3
Mud %:	1.2
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-1.54
Mean size (mm):	2.91
Sorting (phi):	2.265
Skewness (phi):	0.385
Kurtosis (phi):	0.612
D_{10} (phi):	-3.96
D_{10} (mm):	15.53
D_{50} (phi):	-2.22
D_{50} (mm):	4.67
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	8.15
-3.5	21.88
-3	11.15
-2.5	5.36
-2	6.41
-1.5	5.64
-1	4.86
-0.5	4.18
0	3.07
0.5	3.06
1	4.54
1.5	6.82
2	9.06
2.5	2.80
3	0.78
3.5	0.60
4	0.42
>4	1.22
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-02

Sample 1



Station Information

Latitude, Longitude:	42.979475	-70.741855
Water Depth (m):	18.3	
Sample Weight (g):	36.7	
Date Collected, Analyzed:	6/30/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Granuley
Subgroup:	Slightly Granuley Muddy Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Muddy Sand
Textural Group (SZC):	Silty Sand
Sediment Name:	Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

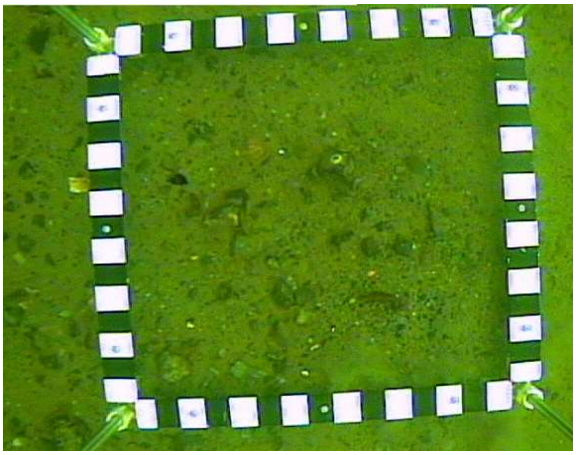
Sediment Name:	Slightly Granular Very Coarse Silty Fine Sand
Mean Size:	Very Fine Sand

Statistics

Gravel %:	0.1
Pebble %:	0.0
Granule %:	0.1
Sand %:	73.0
Mud %:	27.0
Silt %:	22.7
Clay %:	4.3
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.43
Mean size (mm):	0.09
Sorting (phi):	1.373
Skewness (phi):	0.242
Kurtosis (phi):	1.530
D_{10} (phi):	2.03
D_{10} (mm):	0.24
D_{50} (phi):	3.34
D_{50} (mm):	0.10
LOI % (450°C):	N/A

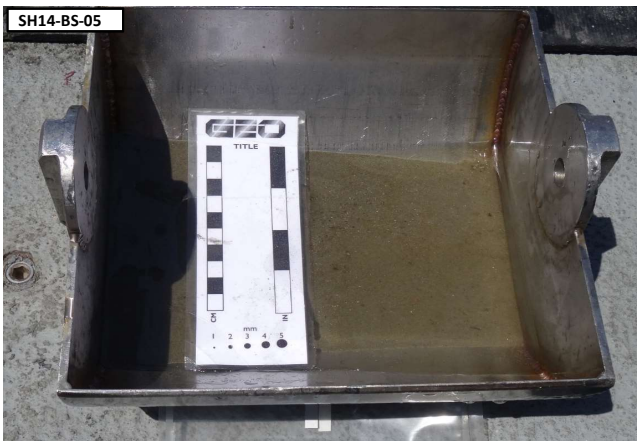
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.05
-0.5	0.10
0	0.17
0.5	0.18
1	0.43
1.5	1.53
2	6.89
2.5	10.16
3	12.46
3.5	25.40
4	15.69
>4	N/A
5	17.22
6	3.79
7	1.05
8	0.64
9	0.65
10	0.59
Smaller than 10	3.01

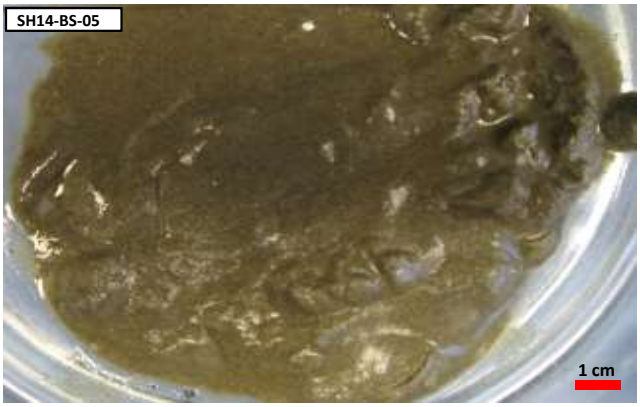
SH14-BS-03



	Sample A		Sample B	
Station Information				
Latitude, Longitude:	42.983972	-70.736481	42.983936	-70.736288
Water Depth (m):	20.3		20.9	
Sample Weight (g):	484.1		385.9	
Date Collected, Analyzed:	6/30/2014	4/23/2018	6/30/2014	4/23/2018
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Coarse Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Gravel		Pebble Mixes	
Subgroup:	Pebble Gravel		Sandy Pebble Gravel	
Gradistat Results				
Textural Group (GSM):	Gravel		Sandy Gravel	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Medium Gravel		Sandy Medium Gravel	
Mean Size:	Medium Gravel		Very Fine Gravel	
Sorting:	Poorly Sorted		Very Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Pebble Gravel		Sandy Pebble Gravel	
Mean Size:	Pebble Gravel		Granule Gravel	
Statistics				
Gravel %:	88.0		70.1	
Pebble %:	81.2		57.2	
Granule %:	6.8		12.9	
Sand %:	11.0		28.5	
Mud %:	1.0		1.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	-4.24		-3.74	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	-3.09		-1.79	
Mean size (mm):	8.49		3.45	
Sorting (phi):	1.611		2.079	
Skewness (phi):	0.494		0.501	
Kurtosis (phi):	1.687		0.969	
D_{10} (phi):	-4.36		-3.75	
D_{10} (mm):	20.49		13.47	
D_{50} (phi):	-3.37		-2.41	
D_{50} (mm):	10.33		5.32	
LOI % (450°C):	N/A		0.4	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	3.96		0.00	
-4	22.83		0.00	
-3.5	18.63		20.71	
-3	19.15		17.34	
-2.5	10.43		10.66	
-2	6.23		8.48	
-1.5	4.16		6.82	
-1	2.64		6.07	
-0.5	1.99		5.39	
0	1.33		3.95	
0.5	1.13		3.54	
1	0.97		3.43	
1.5	0.85		2.98	
2	0.84		2.46	
2.5	0.83		1.82	
3	1.13		2.01	
3.5	1.42		2.16	
4	0.52		0.74	
>4	0.97		1.44	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

SH14-BS-05





Sample 1

Station Information

Latitude, Longitude:	42.996231	-70.740064
Water Depth (m):	10.6	
Sample Weight (g):	100.2	
Date Collected, Analyzed:	6/30/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Sand
Subgroup:	Very Fine Sand

Gradistat Results

Textural Group (GSM):	Sand
Textural Group (SZC):	Sand
Sediment Name:	Well Sorted Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Very Fine Sand
Mean Size:	Very Fine Sand

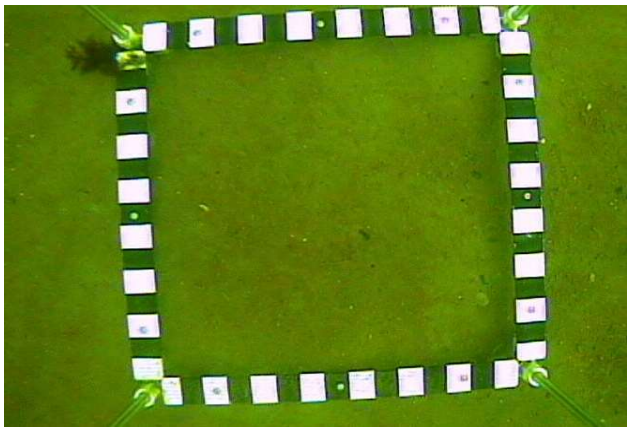
Statistics

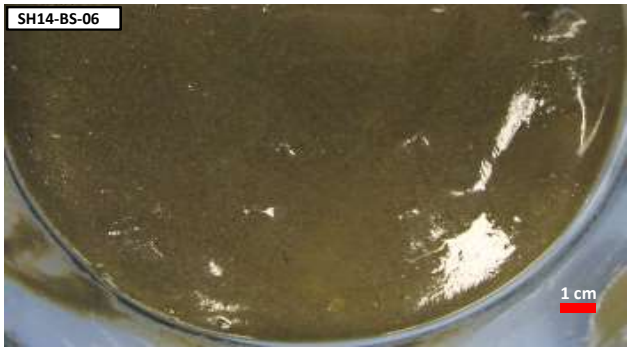
Gravel %:	0.0
Pebble %:	0.0
Granule %:	0.0
Sand %:	93.5
Mud %:	6.5
Silt %:	6.0
Clay %:	0.6
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.28
Mean size (mm):	0.10
Sorting (phi):	0.465
Skewness (phi):	0.153
Kurtosis (phi):	1.636
D_{10} (phi):	2.72
D_{10} (mm):	0.15
D_{50} (phi):	3.25
D_{50} (mm):	0.10
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.00
-2	0.00
-1.5	0.00
-1	0.00
-0.5	0.03
0	0.01
0.5	0.02
1	0.02
1.5	0.07
2	0.28
2.5	0.97
3	18.78
3.5	55.60
4	17.68
>4	N/A
5	5.46
6	0.32
7	0.10
8	0.09
9	0.03
10	0.10
Smaller than 10	0.43

SH14-BS-06

Sample 1





Station Information

Latitude, Longitude:	42.995856	-70.728489
Water Depth (m):	17.7	
Sample Weight (g):	149.1	
Date Collected, Analyzed:	7/1/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Medium Gravelly Very Fine Sand
Mean Size:	Very Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

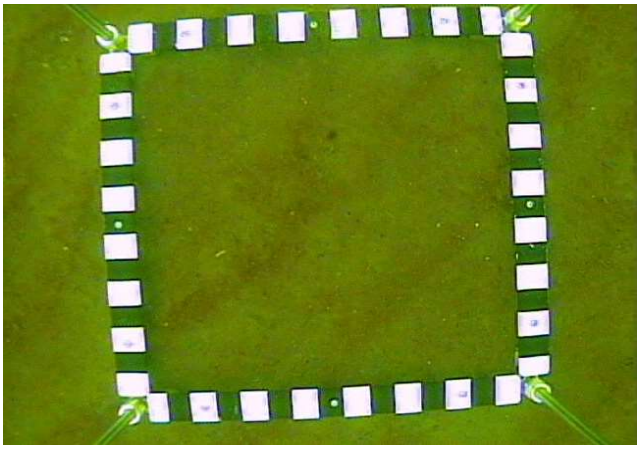
Sediment Name:	Slightly Pebbly Very Fine Sand
Mean Size:	Very Fine Sand

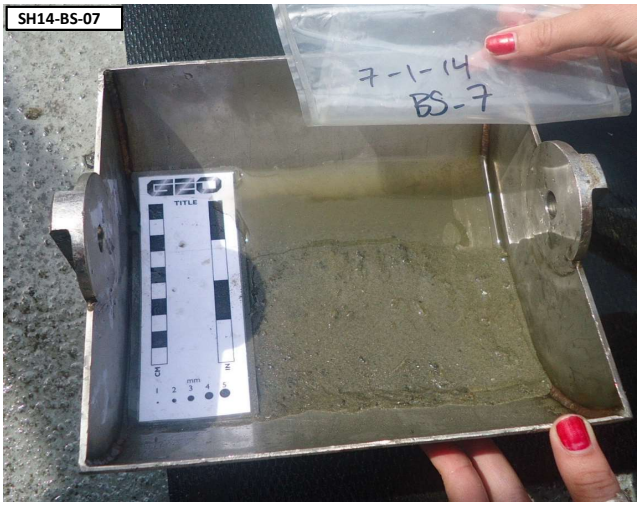
Statistics

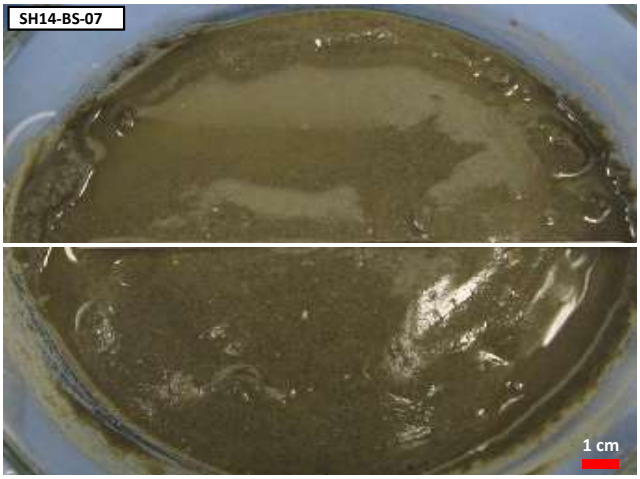
Gravel %:	2.6
Pebble %:	1.9
Granule %:	0.7
Sand %:	92.6
Mud %:	4.8
Silt %:	3.1
Clay %:	1.7
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	3.03
Mean size (mm):	0.12
Sorting (phi):	0.672
Skewness (phi):	-0.308
Kurtosis (phi):	1.896
D_{10} (phi):	2.26
D_{10} (mm):	0.21
D_{50} (phi):	3.09
D_{50} (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	1.24
-2.5	0.00
-2	0.67
-1.5	0.18
-1	0.53
-0.5	0.43
0	0.46
0.5	0.66
1	0.80
1.5	0.96
2	1.72
2.5	4.24
3	29.44
3.5	45.88
4	8.01
>4	N/A
5	2.05
6	0.51
7	0.29
8	0.29
9	0.22
10	0.24
Smaller than 10	1.19

SH14-BS-07







Sample 1

Station Information

Latitude, Longitude:	43.000470	-70.727247
Water Depth (m):	16.5	
Sample Weight (g):	130.5	
Date Collected, Analyzed:	7/1/2014	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Fine Sand
Mean Size:	Fine Sand
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

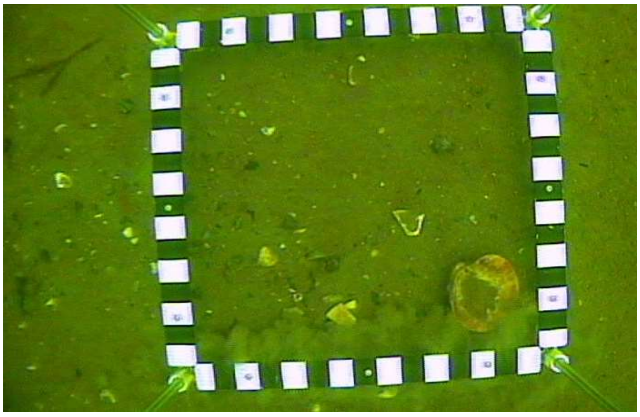
Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

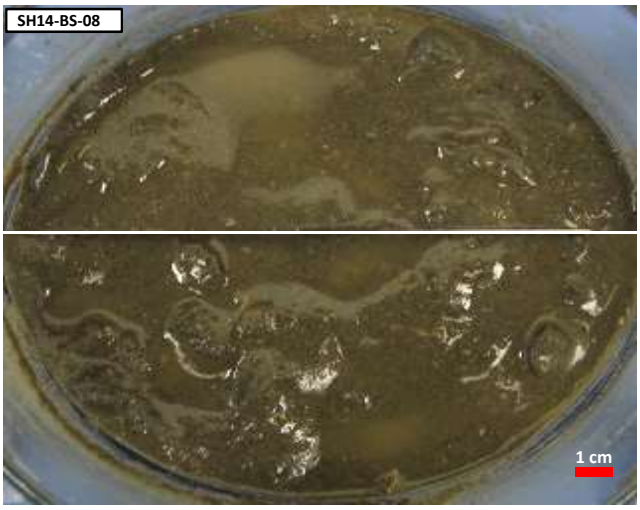
Statistics

Gravel %:	6.2
Pebble %:	5.5
Granule %:	0.7
Sand %:	88.8
Mud %:	5.0
Silt %:	3.5
Clay %:	1.5
Modes:	Unimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.90
Mean size (mm):	0.13
Sorting (phi):	1.313
Skewness (phi):	-0.488
Kurtosis (phi):	3.244
D_{10} (phi):	1.78
D_{10} (mm):	0.29
D_{50} (phi):	3.02
D_{50} (mm):	0.12
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	2.93
-2.5	2.34
-2	0.24
-1.5	0.53
-1	0.19
-0.5	0.08
0	0.13
0.5	0.16
1	0.29
1.5	0.81
2	4.11
2.5	10.36
3	26.69
3.5	34.88
4	11.25
>4	N/A
5	2.56
6	0.54
7	0.25
8	0.18
9	0.18
10	0.25
Smaller than 10	1.05

SH14-BS-08





Sample 1

Station Information

Latitude, Longitude:	43.000737	-70.722898
Water Depth (m):	19.8	
Sample Weight (g):	174.5	
Date Collected, Analyzed:	7/1/2014	4/18/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Fine Sand
Mean Size:	Coarse Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

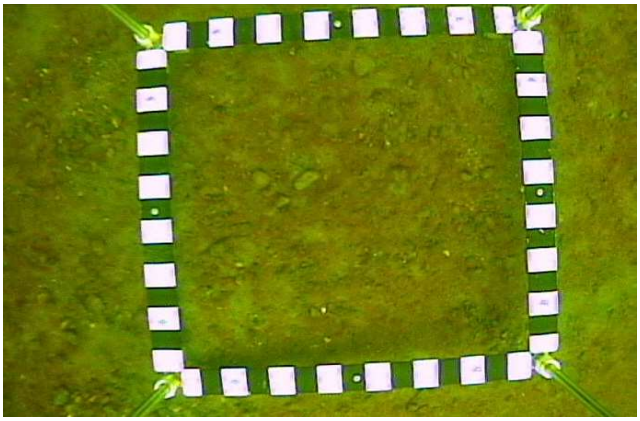
Sediment Name:	Pebbly Fine Sand
Mean Size:	Coarse Sand

Statistics

Gravel %:	29.6
Pebble %:	25.7
Granule %:	3.9
Sand %:	67.1
Mud %:	3.4
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	-3.74
Mode 3 (phi):	N/A
Mean size (phi):	0.72
Mean size (mm):	0.61
Sorting (phi):	2.788
Skewness (phi):	-0.607
Kurtosis (phi):	0.622
D_{10} (phi):	-3.64
D_{10} (mm):	12.44
D_{50} (phi):	2.11
D_{50} (mm):	0.23
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	4.45
-3.5	7.87
-3	6.24
-2.5	3.98
-2	3.18
-1.5	1.95
-1	1.90
-0.5	1.71
0	1.21
0.5	1.09
1	1.62
1.5	3.20
2	8.56
2.5	12.54
3	15.43
3.5	17.23
4	4.48
>4	3.35
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-09



Sample 1

Station Information

Latitude, Longitude:	43.006318	-70.720523
Water Depth (m):	8.8	
Sample Weight (g):	390.5	
Date Collected, Analyzed:	7/1/2014	5/2/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebble Mixes
Subgroup:	Sandy Pebble Gravel

Gradistat Results

Textural Group (GSM):	Sandy Gravel	
Textural Group (SZC):	N/A	
Sediment Name:	Sandy Medium Gravel	
Mean Size:	Very Coarse Sand	
Sorting:	Very Poorly Sorted	

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

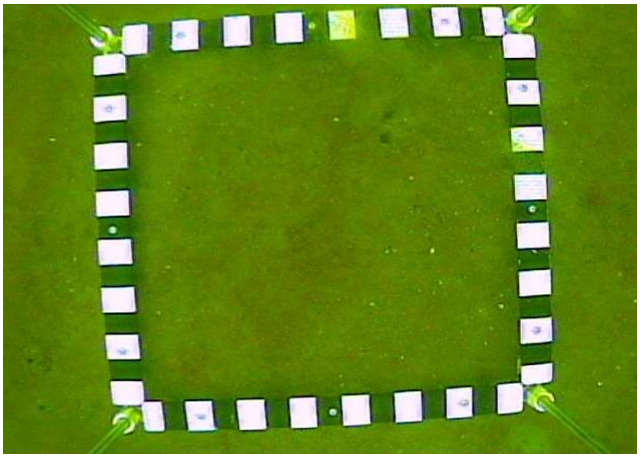
Sediment Name:	Sandy Pebble Gravel	
Mean Size:	Very Coarse Sand	

Statistics

Gravel %:	43.5
Pebble %:	37.1
Granule %:	6.4
Sand %:	54.6
Mud %:	2.0
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-3.74
Mode 2 (phi):	1.75
Mode 3 (phi):	N/A
Mean size (phi):	-0.25
Mean size (mm):	1.19
Sorting (phi):	2.710
Skewness (phi):	-0.014
Kurtosis (phi):	0.579
D_{10} (phi):	-3.84
D_{10} (mm):	14.30
D_{50} (phi):	0.08
D_{50} (mm):	0.95
LOI % (450°C):	0.6

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	6.48
-3.5	11.20
-3	10.31
-2.5	5.60
-2	3.51
-1.5	3.23
-1	3.14
-0.5	3.10
0	2.95
0.5	3.16
1	3.92
1.5	5.59
2	9.71
2.5	8.15
3	8.28
3.5	7.86
4	1.82
>4	1.98
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH14-BS-10



Sample 1

Station Information

Latitude, Longitude:	43.008803	-70.714451
Water Depth (m):	20.7	
Sample Weight (g):	112.0	
Date Collected, Analyzed:	7/1/2014	4/23/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Pebbly
Subgroup:	Pebbly Very Fine Sand

Gradistat Results

Textural Group (GSM):	Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravelly Very Fine Sand
Mean Size:	Medium Sand
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

Sediment Name:	Pebbly Very Fine Sand
Mean Size:	Fine Sand

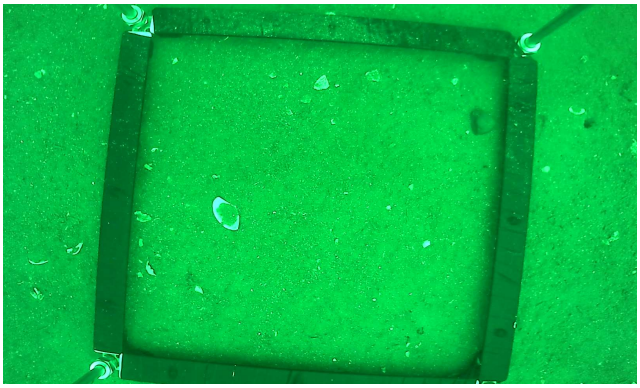
Statistics

Gravel %:	17.4
Pebble %:	15.5
Granule %:	1.8
Sand %:	78.2
Mud %:	4.4
Silt %:	3.0
Clay %:	1.4
Modes:	Bimodal
Mode 1 (phi):	3.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	1.52
Mean size (mm):	0.35
Sorting (phi):	2.421
Skewness (phi):	-0.763
Kurtosis (phi):	1.824
D_{10} (phi):	-3.02
D_{10} (mm):	8.09
D_{50} (phi):	2.92
D_{50} (mm):	0.13
LOI % (450°C):	0.7

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	4.17
-3	6.03
-2.5	3.52
-2	1.79
-1.5	1.19
-1	0.66
-0.5	0.89
0	0.76
0.5	0.79
1	1.10
1.5	2.42
2	5.47
2.5	6.20
3	17.65
3.5	34.79
4	8.15
>4	N/A
5	2.19
6	0.43
7	0.21
8	0.16
9	0.21
10	0.22
Smaller than 10	0.98

SH18-T01

Sample 1



Station Information

Latitude, Longitude:	43.110750	-70.620768
Water Depth (m):	25.0	
Sample Weight (g):	141.0	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

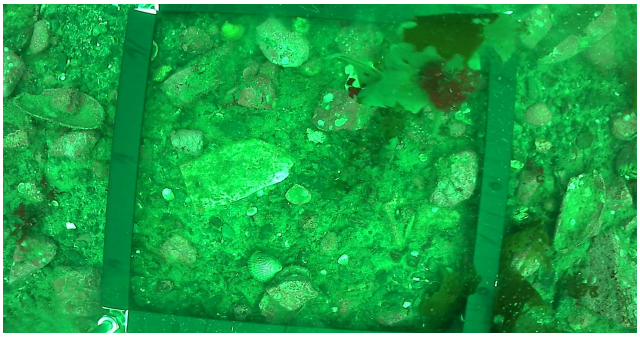
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

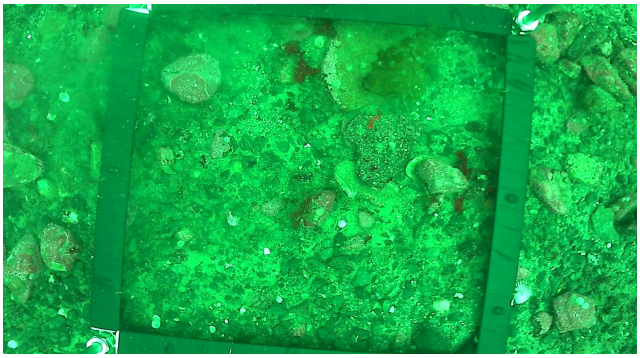
Statistics

Gravel %:	1.4
Pebble %:	1.4
Granule %:	0.0
Sand %:	96.2
Mud %:	2.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.73
Mean size (mm):	0.15
Sorting (phi):	0.658
Skewness (phi):	-0.032
Kurtosis (phi):	1.042
D_{10} (phi):	1.88
D_{10} (mm):	0.27
D_{50} (phi):	2.74
D_{50} (mm):	0.15
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	1.03
-2	0.34
-1.5	0.00
-1	0.02
-0.5	0.11
0	0.26
0.5	0.31
1	0.44
1.5	1.35
2	8.02
2.5	21.51
3	32.94
3.5	23.42
4	7.80
>4	2.45
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T07





Sample 1

Station Information

Latitude, Longitude:	43.100621	-70.629160
Water Depth (m):	21.3	
Sample Weight (g):	549.9	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Medium Gravel
Mean Size:	Fine Gravel
Sorting:	Very Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

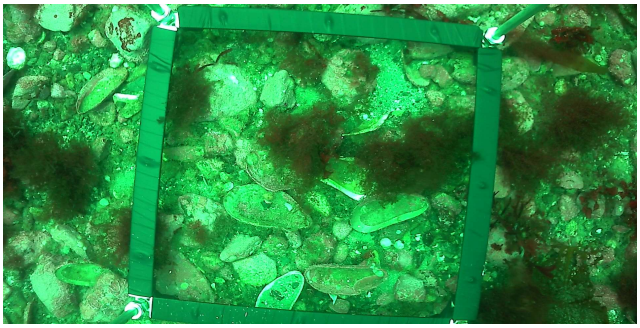
Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

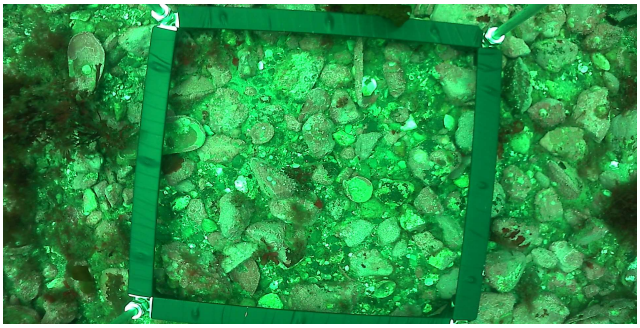
Statistics

Gravel %:	81.4
Pebble %:	70.8
Granule %:	10.6
Sand %:	17.5
Mud %:	1.1
Silt %:	N/A
Clay %:	N/A
Modes:	Bimodal
Mode 1 (phi):	-5.24
Mode 2 (phi):	-3.24
Mode 3 (phi):	N/A
Mean size (phi):	-2.92
Mean size (mm):	7.55
Sorting (phi):	2.174
Skewness (phi):	0.260
Kurtosis (phi):	0.949
D_{10} (phi):	-5.19
D_{10} (mm):	36.58
D_{50} (phi):	-3.13
D_{50} (mm):	8.76
LOI % (450°C):	0.8

Size Distribution (phi)	(%)
-5.5	0.00
-5	17.24
-4.5	14.90
-4	0.00
-3.5	9.97
-3	10.80
-2.5	10.28
-2	7.64
-1.5	6.46
-1	4.10
-0.5	3.37
0	2.16
0.5	2.15
1	2.27
1.5	2.45
2	2.62
2.5	1.20
3	0.60
3.5	0.45
4	0.26
>4	1.07
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T09





Sample 1

Station Information

Latitude, Longitude:	43.095376	-70.626840
Water Depth (m):	20.0	
Sample Weight (g):	424.1	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate
Group:	Gravel
Subgroup:	Pebble Gravel

Gradistat Results

Textural Group (GSM):	Gravel
Textural Group (SZC):	N/A
Sediment Name:	Very Coarse Gravel
Mean Size:	Very Coarse Gravel
Sorting:	Poorly Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

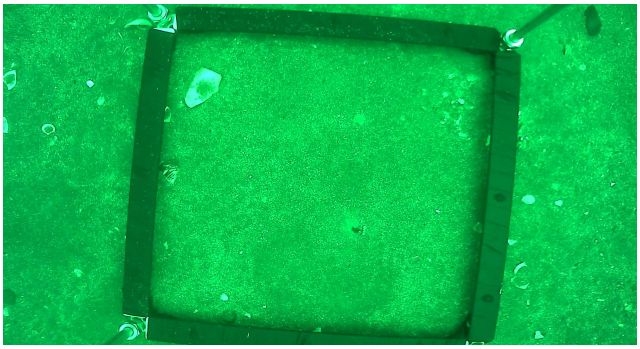
Sediment Name:	Pebble Gravel
Mean Size:	Pebble Gravel

Statistics

Gravel %:	92.4
Pebble %:	91.8
Granule %:	0.6
Sand %:	7.1
Mud %:	0.5
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	-5.74
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	-5.23
Mean size (mm):	37.61
Sorting (phi):	1.404
Skewness (phi):	0.601
Kurtosis (phi):	3.218
D_{10} (phi):	-5.87
D_{10} (mm):	58.44
D_{50} (phi):	-5.39
D_{50} (mm):	41.79
LOI % (450°C):	N/A

Size Distribution (phi)	(%)
-5.5	44.92
-5	24.53
-4.5	15.29
-4	0.00
-3.5	2.24
-3	3.43
-2.5	1.08
-2	0.34
-1.5	0.30
-1	0.28
-0.5	0.40
0	0.49
0.5	0.65
1	0.70
1.5	0.84
2	1.83
2.5	1.29
3	0.59
3.5	0.18
4	0.09
>4	0.53
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

SH18-T10



Sample 1

Station Information

Latitude, Longitude:	43.085480	-70.636550
Water Depth (m):	27.1	
Sample Weight (g):	93.4	
Date Collected, Analyzed:	7/10/2018	7/16/2018

CMECS Classifications

Class:	Unconsol. Mineral Substrate
Subclass:	Fine Unconsol. Substrate
Group:	Slightly Pebbly
Subgroup:	Slightly Pebbly Fine Sand

Gradistat Results

Textural Group (GSM):	Slightly Gravelly Sand
Textural Group (SZC):	N/A
Sediment Name:	Slightly Fine Gravelly Fine Sand
Mean Size:	Fine Sand
Sorting:	Moderately Well Sorted

Gradistat Sediment Name and Mean Size Converted to Wentworth Scale

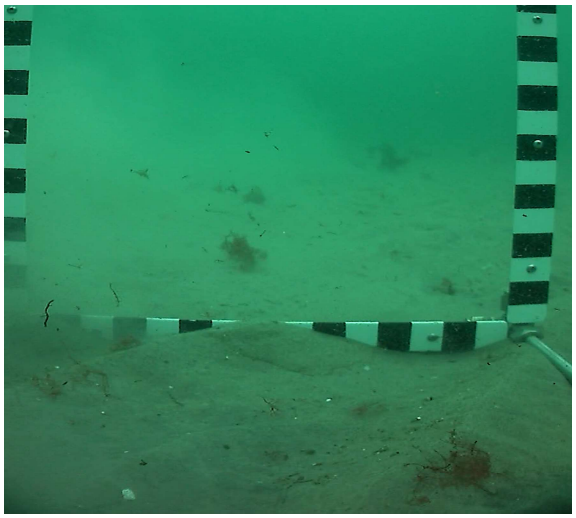
Sediment Name:	Slightly Pebbly Fine Sand
Mean Size:	Fine Sand

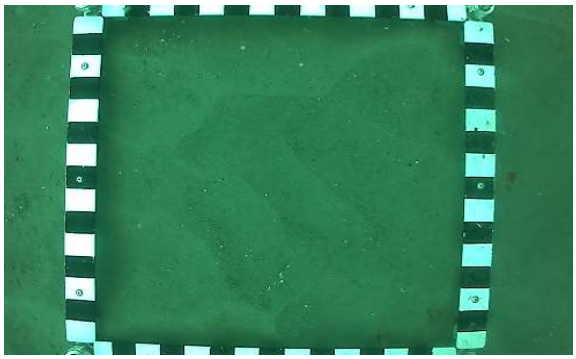
Statistics

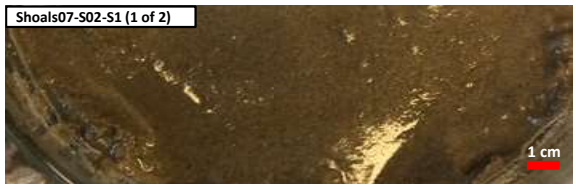
Gravel %:	1.1
Pebble %:	0.9
Granule %:	0.2
Sand %:	97.1
Mud %:	1.9
Silt %:	N/A
Clay %:	N/A
Modes:	Unimodal
Mode 1 (phi):	2.24
Mode 2 (phi):	N/A
Mode 3 (phi):	N/A
Mean size (phi):	2.45
Mean size (mm):	0.18
Sorting (phi):	0.554
Skewness (phi):	0.088
Kurtosis (phi):	1.055
D_{10} (phi):	1.72
D_{10} (mm):	0.30
D_{50} (phi):	2.41
D_{50} (mm):	0.19
LOI % (450°C):	0.8

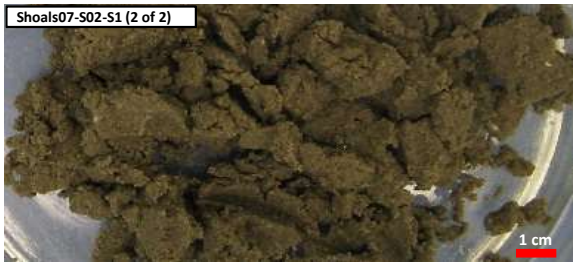
Size Distribution (phi)	(%)
-5.5	0.00
-5	0.00
-4.5	0.00
-4	0.00
-3.5	0.00
-3	0.00
-2.5	0.72
-2	0.16
-1.5	0.00
-1	0.18
-0.5	0.08
0	0.10
0.5	0.15
1	0.35
1.5	1.99
2	14.12
2.5	36.77
3	29.77
3.5	11.19
4	2.55
>4	1.86
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
Smaller than 10	N/A

Shoals07-S02









	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.868036	-70.810027	42.868029	-70.809822
Water Depth (m):	8.5		8.5	
Sample Weight (g):	232.7		119.5	
Date Analyzed:	10/13/2016	10/25/16, 7/5/18	10/13/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Granuley	
Subgroup:	Slightly Granuley Very Fine Sand		Slightly Granuley Very Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Very Fine Sand		Slightly Very Fine Gravelly Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Sorting:	Well Sorted		Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Very Fine Sand		Slightly Granular Very Fine Sand	
Mean Size:	Very Fine Sand		Very Fine Sand	
Statistics				
Gravel %:	0.1		0.1	
Pebble %:	0.0		0.0	
Granule %:	0.1		0.1	
Sand %:	98.5		98.4	
Mud %:	1.4		1.5	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	3.03		3.02	
Mean size (mm):	0.12		0.12	
Sorting (phi):	0.446		0.454	
Skewness (phi):	-0.159		-0.140	
Kurtosis (phi):	1.092		1.076	
D_{10} (phi):	2.49		2.48	
D_{10} (mm):	0.18		0.18	
D_{50} (phi):	3.09		3.07	
D_{50} (mm):	0.12		0.12	
LOI % (450°C):	0.4		N/A	

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.00	0.00
-2.5	0.00	0.00
-2	0.00	0.00
-1.5	0.04	0.00
-1	0.04	0.10
-0.5	0.03	0.06
0	0.08	0.06
0.5	0.18	0.18
1	0.33	0.30
1.5	0.37	0.30
2	1.16	1.11
2.5	6.59	7.60
3	32.42	33.65
3.5	48.51	46.21
4	8.80	8.98
>4	1.44	1.47
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S07

Station Information	Sample 1 (without large clast)		Sample 2	
Latitude, Longitude:	42.855850	-70.807233	42.855950	-70.807259
Water Depth (m):	13.4		13.4	
Sample Weight (g):	401.3		201.4	
Date Analyzed:	10/13/2016	10/25/16, 7/5/18	10/13/2016	10/25/2016

CMECS Classifications		
Class:	Unconsol. Mineral Substrate	Unconsol. Mineral Substrate
Subclass:	Coarse Unconsol. Substrate	Coarse Unconsol. Substrate
Group:	Granuley	Granuley
Subgroup:	Granuley Coarse Sand	Granuley Coarse Sand

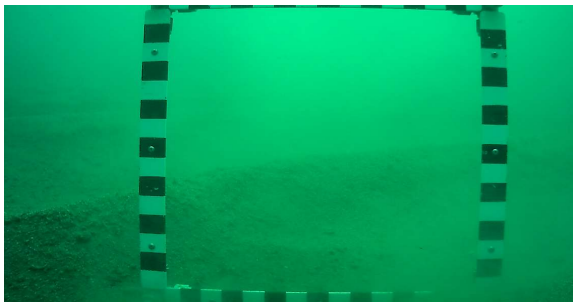
Gradistat		
Textural Group (GSM):	Gravelly Sand	Gravelly Sand
Textural Group (SZC):	N/A	N/A
Sediment Name:	Very Fine Gravelly Coarse Sand	Very Fine Gravelly Coarse Sand
Mean Size:	Very Fine Gravel	Coarse Sand
Sorting:	Poorly Sorted	Poorly Sorted

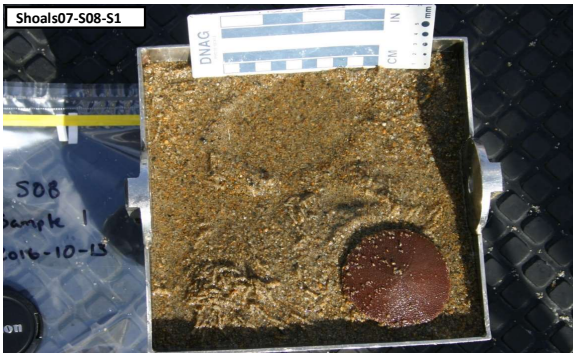
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale		
Sediment Name:	Granular Coarse Sand	Granular Coarse Sand
Mean Size:	Granule Gravel	Coarse Sand

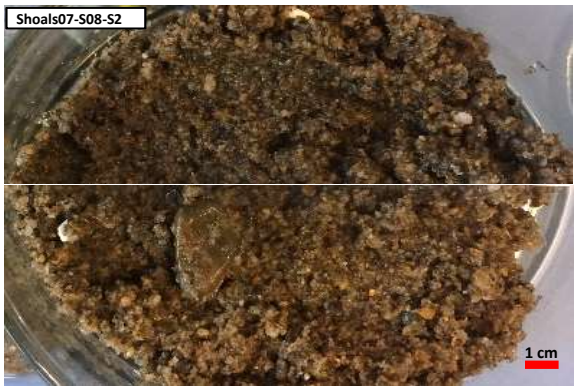
Statistics		
Gravel %:	9.3	14.5
Pebble %:	3.7	3.8
Granule %:	5.6	10.7
Sand %:	90.3	85.0
Mud %:	0.4	0.5
Silt %:	N/A	N/A
Clay %:	N/A	N/A
Modes:	Unimodal	Unimodal
Mode 1 (phi):	0.75	0.25
Mode 2 (phi):	N/A	N/A
Mode 3 (phi):	N/A	N/A
Mean size (phi):	0.35	0.06
Mean size (mm):	0.78	0.96
Sorting (phi):	1.059	1.015
Skewness (phi):	-0.067	-0.112
Kurtosis (phi):	1.185	1.056
D_{10} (phi):	-0.96	-1.29
D_{10} (mm):	1.95	2.44
D_{50} (phi):	0.39	0.14
D_{50} (mm):	0.76	0.91
LOI % (450°C):	0.3	N/A

Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	1.54	0.36
-2.5	0.54	1.06
-2	1.60	2.41
-1.5	1.68	3.10
-1	3.92	7.61
-0.5	10.14	13.70
0	14.95	16.28
0.5	19.60	20.12
1	21.69	20.00
1.5	13.00	8.97
2	5.59	3.31
2.5	2.73	1.42
3	1.52	0.66
3.5	0.93	0.48
4	0.15	0.08
>4	0.42	0.46
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

Shoals07-S08



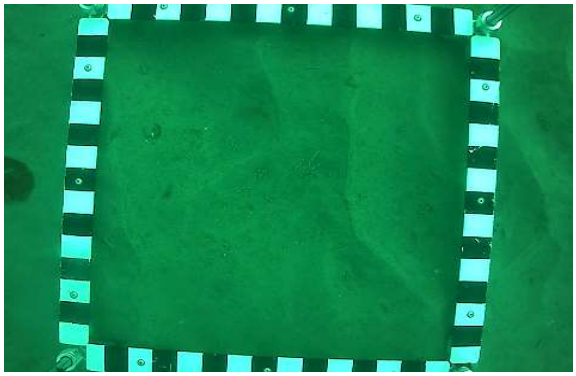




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.855847	-70.803396	42.855587	-70.802909
Water Depth (m):	16.8		16.8	
Sample Weight (g):	367.5		209.8	
Date Analyzed:	10/13/2016	10/25/16, 7/5/18	10/13/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Coarse Unconsol. Substrate	
Group:	Slightly Granuley		Granuley	
Subgroup:	Slightly Granuley Coarse Sand		Granuley Coarse Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand		Very Fine Gravelly Coarse Sand	
Mean Size:	Coarse Sand		Very Coarse Sand	
Sorting:	Moderately Well Sorted		Poorly Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Coarse Sand		Granular Coarse Sand	
Mean Size:	Coarse Sand		Very Coarse Sand	
Statistics				
Gravel %:	1.3		19.1	
Pebble %:	0.0		8.7	
Granule %:	1.2		10.4	
Sand %:	98.2		80.5	
Mud %:	0.5		0.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Bimodal	
Mode 1 (phi):	0.25		0.25	
Mode 2 (phi):	N/A		-4.24	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.42		-0.09	
Mean size (mm):	0.75		1.07	
Sorting (phi):	0.602		1.226	
Skewness (phi):	-0.018		-0.349	
Kurtosis (phi):	1.121		1.421	
D_{10} (phi):	-0.35		-1.84	
D_{10} (mm):	1.28		3.57	
D_{50} (phi):	0.45		0.11	
D_{50} (mm):	0.73		0.93	
LOI % (450°C):	0.3		N/A	

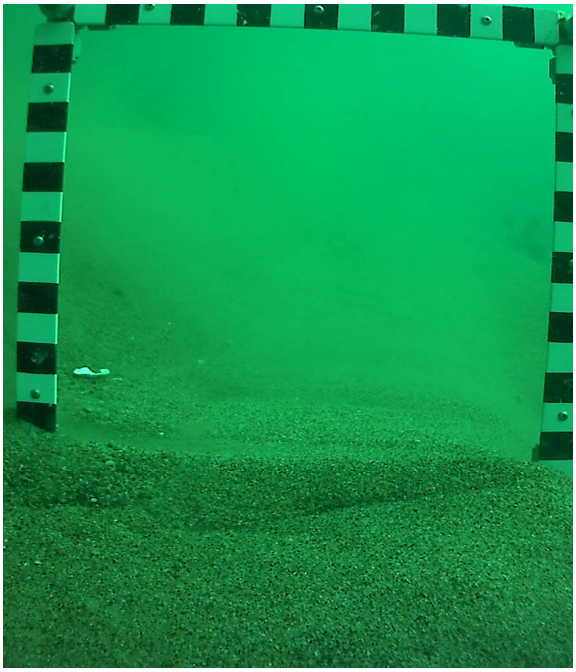
Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	4.64
-3.5	0.00	0.00
-3	0.00	0.55
-2.5	0.00	1.20
-2	0.03	2.26
-1.5	0.25	4.20
-1	0.97	6.21
-0.5	4.66	10.31
0	14.76	15.21
0.5	32.60	24.89
1	32.15	20.30
1.5	9.47	5.53
2	2.26	1.67
2.5	0.95	0.71
3	0.71	0.72
3.5	0.54	1.01
4	0.13	0.17
>4	0.54	0.42
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

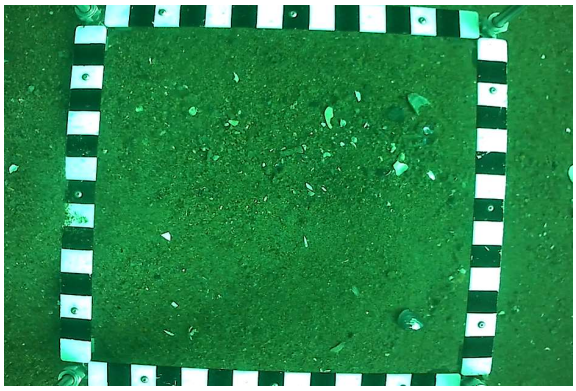
Shoals07-S09



	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.854926	-70.805300	42.854867	-70.804997
Water Depth (m):				
Sample Weight (g):	306.0		136.9	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18	10/6/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Sand		Slightly Granuley	
Subgroup:	Very Fine Sand		Slightly Granuley Fine Sand	
Gradistat				
Textural Group (GSM):	Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Very Fine Sand		Slightly Very Fine Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Very Fine Sand		Slightly Granular Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.0		0.1	
Pebble %:	0.0		0.0	
Granule %:	0.0		0.1	
Sand %:	98.2		98.9	
Mud %:	1.8		1.1	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	3.24		3.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.78		2.76	
Mean size (mm):	0.15		0.15	
Sorting (phi):	0.759		0.790	
Skewness (phi):	-0.309		-0.340	
Kurtosis (phi):	1.365		1.395	
D_{10} (phi):	1.61		1.51	
D_{10} (mm):	0.33		0.35	
D_{50} (phi):	2.90		2.87	
D_{50} (mm):	0.13		0.14	
LOI % (450°C):	0.3		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.00		0.00	
-2	0.00		0.00	
-1.5	0.00		0.03	
-1	0.01		0.02	
-0.5	0.03		0.14	
0	0.26		0.57	
0.5	1.58		2.55	
1	3.17		3.62	
1.5	3.63		2.91	
2	6.00		5.31	
2.5	11.46		12.67	
3	29.71		29.29	
3.5	33.95		33.98	
4	8.39		7.86	
>4	1.81		1.05	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

Shoals07-S11

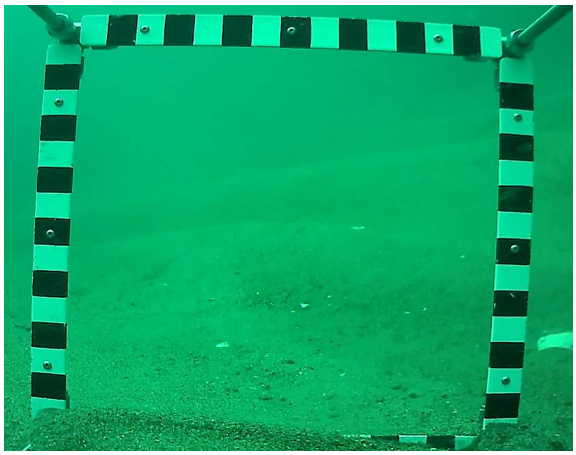




	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.849072	-70.805784	42.849135	-70.805405
Water Depth (m):	13.4		13.4	
Sample Weight (g):	358.6		145.7	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18	10/6/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Granuley	
Subgroup:	Slightly Granuley Coarse Sand		Slightly Granuley Coarse Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand		Slightly Very Fine Gravelly Coarse Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Sorting:	Moderately Sorted		Moderately Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Coarse Sand		Slightly Granular Coarse Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	5.0		0.1	
Pebble %:	1.1		0.0	
Granule %:	3.9		0.1	
Sand %:	94.7		99.5	
Mud %:	0.4		0.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	0.25		0.75	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.28		0.84	
Mean size (mm):	0.82		0.56	
Sorting (phi):	0.766		0.769	
Skewness (phi):	0.024		0.259	
Kurtosis (phi):	1.127		1.398	
D_{10} (phi):	-0.71		0.08	
D_{10} (mm):	1.63		0.95	
D_{50} (phi):	0.28		0.78	
D_{50} (mm):	0.82		0.58	
LOI % (450°C):	0.3		N/A	

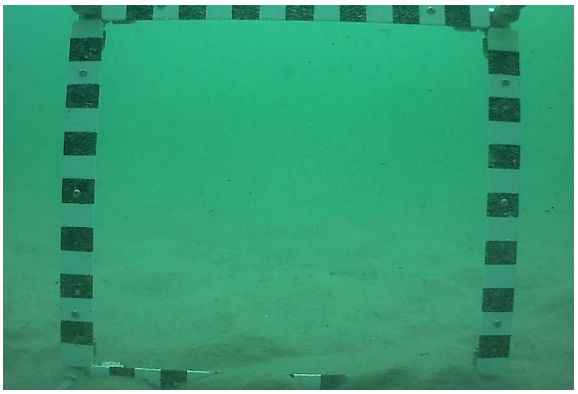
Size Distribution (phi)	(%)	(%)
-5.5	0.00	0.00
-5	0.00	0.00
-4.5	0.00	0.00
-4	0.00	0.00
-3.5	0.00	0.00
-3	0.50	0.00
-2.5	0.00	0.00
-2	0.59	0.00
-1.5	1.05	0.05
-1	2.85	0.10
-0.5	8.79	0.63
0	19.27	5.51
0.5	29.47	23.04
1	21.84	36.71
1.5	9.22	17.61
2	3.32	5.95
2.5	1.31	2.89
3	0.96	4.24
3.5	0.40	2.66
4	0.08	0.22
>4	0.36	0.41
5	N/A	N/A
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A
9	N/A	N/A
10	N/A	N/A
Smaller than 10	N/A	N/A

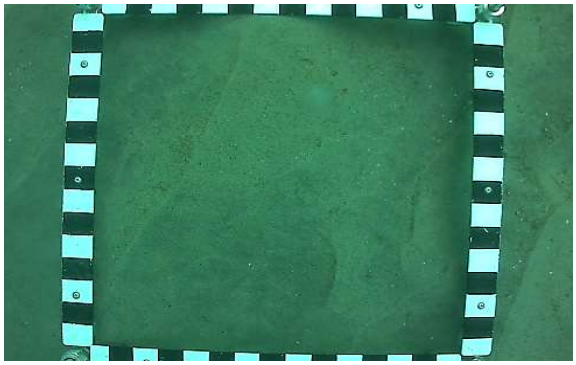
Shoals07-S13

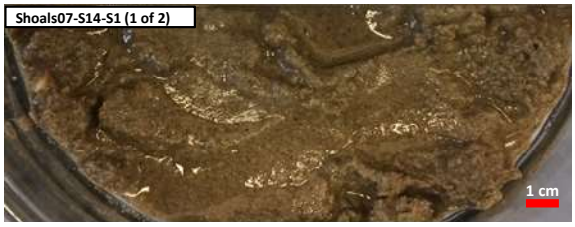


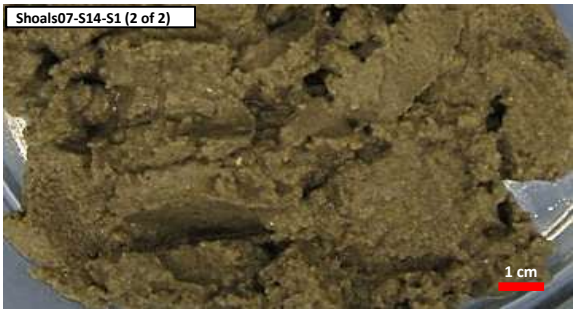
	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.843429	-70.801355	42.843461	-70.801725
Water Depth (m):	15.2		15.2	
Sample Weight (g):	175.1		189.6	
Date Analyzed:	10/6/2016	7/5/2018	10/6/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Granuley		Slightly Granuley	
Subgroup:	Slightly Granuley Coarse Sand		Slightly Granuley Coarse Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Slightly Gravelly Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Very Fine Gravelly Coarse Sand		Slightly Very Fine Gravelly Coarse Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Sorting:	Moderately Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Granular Coarse Sand		Slightly Granular Coarse Sand	
Mean Size:	Coarse Sand		Coarse Sand	
Statistics				
Gravel %:	2.1		0.2	
Pebble %:	0.3		0.0	
Granule %:	1.8		0.2	
Sand %:	97.5		99.4	
Mud %:	0.4		0.4	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	0.75		0.75	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	0.54		0.72	
Mean size (mm):	0.69		0.61	
Sorting (phi):	0.835		0.662	
Skewness (phi):	-0.010		-0.012	
Kurtosis (phi):	0.934		0.974	
D_{10} (phi):	-0.48		-0.15	
D_{10} (mm):	1.40		1.11	
D_{50} (phi):	0.56		0.73	
D_{50} (mm):	0.68		0.60	
LOI % (450°C):	0.3		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.03		0.00	
-2	0.25		0.03	
-1.5	0.39		0.03	
-1	1.39		0.16	
-0.5	7.79		2.27	
0	16.75		10.95	
0.5	20.73		22.34	
1	22.16		30.64	
1.5	18.60		23.33	
2	8.35		7.97	
2.5	1.61		1.12	
3	1.01		0.46	
3.5	0.45		0.29	
4	0.08		0.05	
>4	0.41		0.37	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	

Shoals07-S14









	Sample 1		Sample 2	
Station Information				
Latitude, Longitude:	42.829714	-70.805199	42.829566	-70.805736
Water Depth (m):	8.8		8.8	
Sample Weight (g):	321.6		145.9	
Date Analyzed:	10/6/2016	10/25/16, 7/5/18	10/6/2016	10/25/2016
CMECS Classifications				
Class:	Unconsol. Mineral Substrate		Unconsol. Mineral Substrate	
Subclass:	Fine Unconsol. Substrate		Fine Unconsol. Substrate	
Group:	Slightly Pebbly		Sand	
Subgroup:	Slightly Pebbly Fine Sand		Fine Sand	
Gradistat				
Textural Group (GSM):	Slightly Gravelly Sand		Sand	
Textural Group (SZC):	N/A		N/A	
Sediment Name:	Slightly Fine Gravelly Fine Sand		Slightly Very Fine Gravelly Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Sorting:	Moderately Well Sorted		Moderately Well Sorted	
Gradistat Sediment Name and Mean Size Converted to Wentworth Scale				
Sediment Name:	Slightly Pebbly Fine Sand		Fine Sand	
Mean Size:	Fine Sand		Fine Sand	
Statistics				
Gravel %:	0.2		0.0	
Pebble %:	0.1		0.0	
Granule %:	0.0		0.0	
Sand %:	99.3		99.5	
Mud %:	0.6		0.5	
Silt %:	N/A		N/A	
Clay %:	N/A		N/A	
Modes:	Unimodal		Unimodal	
Mode 1 (phi):	2.74		2.24	
Mode 2 (phi):	N/A		N/A	
Mode 3 (phi):	N/A		N/A	
Mean size (phi):	2.47		2.43	
Mean size (mm):	0.18		0.19	
Sorting (phi):	0.641		0.582	
Skewness (phi):	-0.194		-0.077	
Kurtosis (phi):	1.152		1.101	
D_{10} (phi):	1.57		1.63	
D_{10} (mm):	0.34		0.32	
D_{50} (phi):	2.54		2.45	
D_{50} (mm):	0.17		0.18	
LOI % (450°C):	0.3		N/A	
Size Distribution (phi)	**(%)**		**(%)**	
-5.5	0.00		0.00	
-5	0.00		0.00	
-4.5	0.00		0.00	
-4	0.00		0.00	
-3.5	0.00		0.00	
-3	0.00		0.00	
-2.5	0.14		0.00	
-2	0.00		0.00	
-1.5	0.00		0.00	
-1	0.04		0.00	
-0.5	0.04		0.01	
0	0.21		0.10	
0.5	0.77		0.38	
1	2.26		1.58	
1.5	4.91		4.44	
2	11.17		12.62	
2.5	26.19		32.55	
3	36.68		33.70	
3.5	15.34		13.10	
4	1.66		1.04	
>4	0.57		0.47	
5	N/A		N/A	
6	N/A		N/A	
7	N/A		N/A	
8	N/A		N/A	
9	N/A		N/A	
10	N/A		N/A	
Smaller than 10	N/A		N/A	