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NBEP-2007-127

Physical Property and Chemical Characteristics of Surface
Sediment Grab Samples from Narragansett Bay and the Providence
and Seekonk Rivers

Murray, D. W., Prell, W. L., Rincon, C. E., and Saarman, E.

Narragansett Bay Estuary Program

This document contains data tables, maps, plots, and documentation on Brown University's Narragansett Bay Sediment Project compiled by David W. Murray, Brown University, for the New England Interstate Water Pollution Control Commission with support from the U.S. Environmental Protection Agency. The data were compiled and analyzed as part of a New England pilot project exploring the development of a biological condition gradient applicable to estuarine systems. The Metadata file gives an overview of the data tables, methods, and plots. Questions and comments on these files should be directed to David W. Murray, Dept of Geological Sciences, Box 1846, Brown University, Providence, RI 02912; dmurray@brown.edu, 401-863-3531.

Please reference the following citation when using these data:

Murray, D.W., Prell, W.L., Rincon, C.E., and Saarman, E., 2007. Physical property and chemical characteristics of surface sediment grab samples from Narragansett Bay and the Providence and Seekonk Rivers, a summary of the Brown University Narragansett Bay Sediment Project (BUNBSP). Narragansett Bay Estuary Program Report, NBEP-07-127.

METADATA

There are two primary data files compiled for this study:

1. Table1, 363 surface grab samples with corresponding data on date sampled, location, water depth, grain size, and carbon and nitrogen content.
2. Table2, 111 surface grab samples with corresponding data on elemental composition in addition to the information from Table 1.

CITATION:

Please reference the following citation when using these data:

Murray, D.W., Prell, W.L., Rincon, C.E., and Saarman, E., 2007. Physical property and chemical characteristics of surface sediment grab samples from Narragansett Bay and the Providence and Seekonk Rivers, a summary of the Brown University Narragansett Bay Sediment Project (BUNBSP). Narragansett Bay Estuary Program Report NBEP-07-127.

DATA SOURCE:

Environmental Chemistry Facility, Brown University

CONTACT:

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TABLE 1 DATA FIELDS:

| | |
|----------------|--|
| Area | Geographic area corresponding to map regions (see map) |
| Sequence # | Sequential number in table general order from north to south |
| Sample ID | Sample label for site and container |
| MapID | The corresponding label on the map included in this summary |
| Latitude | Location determined by GPS |
| Longitude | Location determined by GPS |
| CollectionDate | Date of collection mm/dd/yy |
| Datenofomat | Date of collection mmddyy |
| Depth | Water depth, scaled to mean high tide |
| Gravel | weight % > 2mm |
| Sand | weight % >63 microns and <2mm |
| Mud | weight % <63 microns |
| Ntot | weight %nitrogen |
| Ctot | weight %carbon (organic and inorganic forms) |

CorgLOI Chemistry weight %carbon determined by loss on ignition
 samples used for further chemical analyses have value of 1, those not used have value of zero.

TABLE 2 DATA FIELDS:

| | |
|----------------|---|
| Area | Geographic area corresponding to map regions (see map) |
| Sequence # | Sequential number in table general order from north to south |
| Sample ID | Sample label for site and container |
| MapID | The corresponding label on the map included in this summary |
| Latitude | Location determined by GPS |
| Longitude | Location determined by GPS |
| CollectionDate | Date of collection mm/dd/yy |
| Datenofmat | Date of collection mmddyy |
| Depth | Water depth, scaled to mean high tide |
| Gravel | weight % > 2mm |
| Sand | weight % >63 microns and <2mm |
| Mud | weight % <63 microns |
| Ntot | weight %nitrogen |
| Ctot | weight %carbon (organic and inorganic forms) |
| CorgLOI | weight %carbon determined by loss on ignition |
| Hg | ug/g of mercury |
| SampleID | sample label for site and container |
| #analyzed | the number of samples analyzed for the site by XRF, averaged data reported in table |
| Si | % silicon |
| Al | % aluminum |
| Fe | % iron |
| Mn | % manganese |
| Mg | % magnesium |
| Ca | % calcium |
| Na | % sodium |
| K | % potassium |
| Ti | % titanium |
| Cr | ug/g chromium |
| Cu | ug/g copper |
| Ni | ug/g nickel |
| Pb | ug/g lead |
| Sr | ug/g strontium |
| V | ug/g vanadium |
| Zn | ug/g zinc |

METHODS:

For more detailed information on METHODS, see accompanying Methods documentation

LOCATION INFORMATION:

Samples collected in 2003 (BSP ID's): Trimble GeoExplorerII with Rangepole Antenna
Samples collected in 2005 (SR ID's) and 2006 (LB ID's): Garmin 172 Chart Plotter

DEPTH INFORMATION:

The water depths reported are referenced to the long-term mean high tide at Connimicut Point. Because samples were collected on different days and under a variety of tide stages, water depths from the boat's depth recorder were adjusted to mean high tide using the time and date of sampling from the log sheets and tidal data collected from the PORTS site at Connimicut Point.

MAPS:

- 1) Location Map of all 363 stations in Table 1. The sites used for chemical analyses in Table 2 are shown as red symbols.
- 2) Property contour maps generated using ESRI ArcMap software. Station symbols are the same as shown on the Location Map. The gridding used for contours was done in ArcMap using 2nd order inverse distance weighting for interpolation between nearest 5 neighbors within a 65° angled ellipse 1,524 m wide X 2,743 m long, with no minimum of neighboring data points. The interpolated shape file was converted to a raster file and combined with a blanking file for display. Because of the sparse nature of the sampling in the lower bay, we have less confidence of the gridded values of the data in this area, especially in the deep channels of the East Passage. The contour intervals for the metals bracket the values of the sediment quality criteria of Long et al. (1995), with green colors having values below the ERL, yellow-orange correspond to the ERL-ERM range, and red colors for values above the ERM level.

TRANSECT PLOTS:

Plots of trace metals vs. latitude using data from Table 2. Sediment quality criteria (Long et al., 1995) are shown on the plots. The symbols for each bay area are the same as on the Location Map.

SEDIMENT QUALITY CRITERIA:

The sediment quality criteria noted on the transect plots are from Long, et al (1995). Concentrations below the ERL (Effects Range-Low) correspond to the "no effects range," concentrations between the ERL and ERM (Effects Range-Median) correspond to the "possible effects range," and concentrations above the ERM correspond to the "probable effects range."

Ref: Long, E.R., D.D. Macdonald, S.L. Smith, and F.D. Calder, 1995. Incidence of adverse biological effects within ranges of chemical concentrations in marine estuarine sediments, *Environmental Management*, 19:81-97.

ACKNOWLEDGEMENTS:

The samples used in this study were collected during the summers of 2003 (BSP labeled samples), 2005 (SR labeled samples) and 2006 (LB labeled samples) during a total of 14 field days. We used Brown's MariTime Skiff, the "Bear Cub", for field operations and

typically had a crew of 4-5 individuals to collect the grab samples and perform field subsampling for chemical, biological, and physical property analyses, as well as sieving remaining material at 2 mm and retaining the >2 mm fraction for biological studies.

We would like to acknowledge the efforts for of the following individuals associated with this project:

Field Work:

| | |
|----------------|------------------|
| David Murray | Warren Prell |
| Joe Orchardo | Steve Clemens |
| Cate Brown | Kiera Heggie |
| Zak Fjeldheim | Emily Saarman |
| Monica Skeldon | Emily Washington |
| Carlos Rincon | Don Pryor |
| Kira Lawrence | Lauren Seckel |
| Lynn Carlson | Novem Auyeung |
| Jeff Albert | Sally Walkerman |

Lab work

| | |
|----------------|------------------|
| Cate Brown | Kiera Heggie |
| Zak Fjeldheim | Emily Saarman |
| Monica Skeldon | Emily Washington |
| Carlos Rincon | April Martin |

Data Processing and Maps

| | |
|---------------|---------------|
| David Murray | Emily Saarman |
| Lynn Carlson | Philip Howell |
| Carlos Rincon | Allan Just |

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- Brown/Office of VP for Research Seed Funds: “Understanding Eutrophication and Hypoxia in Narragansett Bay: An Initiative to Strengthen Brown’ Estuarine Research Efforts”, W.Prell, PI
- NOAA/URI SeaGrant Award NA040AR4170062/NA16RG1057, “Benthic Foraminifer Faunas as a Proxy for Mapping the Spatial and Temporal Extent of Hypoxia in Narragansett Bay”, W.L.Prell-PI
- Brown University, Department of Geological Sciences Oceanography Account
- NOAA/URI Award, URI-020606/0000848, “Modeling Tools to Predict Hypoxia/Anoxia in Upper Narragansett Bay”, subcontract to Brown, W.L. Prell-PI

Data Synthesis:

- Brown/ Office of VP for Research Seed Funds: “Understanding Eutrophication and Hypoxia in Narragansett Bay: An Initiative to Strengthen Brown’ Estuarine Research Efforts”, W.Prell, PI

- NOAA/URI Award, URI-020606/0000848, “Modeling Tools to Predict Hypoxia/Anoxia in Upper Narragansett Bay”, subcontract to Brown, W.L. Prell-PI
- NE Interstate Water Pollution Control Commission with support from the U.S. Environmental Protection Agency, PO6756 to D.W. Murray

Methods

Sample Location:

The sampling scheme for this project was based on a grid of boxes and when possible collecting a sample from the center of each grid. Grid sizes in the Providence and Seekonk Rivers were approximately 400 x 400 m and approximately 800 m x 800 m from the mouth of the Providence River to Mid-Prudence Island. For the Lower Bay sites south of Mid-Prudence Island, a random selection of grids was used to obtain a large spatial coverage and avoid the deep channel locations. Sites were located with GPS navigation units.

Sample Collection:

The surface grabs were collected with a Ponar Grab sampler typically collecting between 0.5 and 1.5 L of wet sediment and sampling the top 5-10 cm of the surface sediments. Approximately 150 ml of this grab was placed in a plastic container and the remainder was wet sieved at 2mm. The >2mm fraction was collected in a plastic whirlpak bag and later stored frozen for future biological studies. The subsamples in plastic containers were brought back to the lab, stored in a freezer, then freeze dried. The freeze-dried samples were made available for the analyses reported in this study.

Sample Processing:

Samples were weighed to obtain a total sample weight. Samples were then dried-sieved at 2 mm and the >2mm fraction (gravel) was weighed and stored in separate bags. Most of this material was of biological origin (e.g. shells, worms, plant debris) and very little was of lithic origin. The <2 mm fraction was returned to the plastic container and subsampled as needed. Approximately 15 g of dried sample was ground to a fine powder using a SPEX CertiPrep Duel Mixer Mill.

Grain Size:

The weight fraction of gravel sized particles was determined as the weight >2 mm divided by the total sample weight. The weight percent sand (63 μ m- 2 mm) and mud (<63 μ m) were determined on a 5-15 g subsample of the <2 mm fraction that was wet-sieved for benthic foraminifera census studies. Initially, samples were dry-sieved, however because of clumping, especially on the >63 μ m fraction, the separation between sand (>63 μ m) and mud (silt and clay <63 μ m) was not reliable. Wet sieving ameliorated the issue of clumping and these data were used in the calculations of %Sand and %Mud in this study. Subsamples for the foram studies were weighed, placed in a beaker with water, soaked overnight, and wet sieved at 63 μ m. The >63 μ m fraction was retained, placed in a beaker, dried, and weighed. The weight >63 μ m divided by the total subsample weight is the weight fraction of sand sized particles <2 mm. The difference between the total weight and the sand fraction weight, divided by the total weight is the weight fraction of mud (silt and clay) sized particles <2 mm. These data were divided by

weight fraction <2 mm $[(100-\% \text{gravel})/100]$ to determine the %mud and %sand of the total sample ($\% \text{mud} = 100 * \text{wt fraction } <63 \text{ um}$ /weight fraction <2 mm).

Corg-Loss on Ignition (LOI):

A 1 g subsample of the dried unground sample was placed in ceramic crucibles. These crucibles and samples were combusted to 550 C for 4 hours. The crucibles were transferred to a glass desiccator and allowed to cool to room temperature before weighing. The weight loss after combustion is attributed to organic matter. Corg-LOI = 2.5 divided by the %weight loss due to combustion/ignition at 550 C, where 2.5 is the weight ratio between organic matter and organic carbon. This weight ratio is higher than what is commonly used, but seems appropriate for this data set, comparing the C_{tot} and Corg-LOI measurements.

C_{tot} and N_{tot}:

The data are reported at weight percentages for total (organic and inorganic forms) of carbon nitrogen. Total carbon and nitrogen concentrations were determined on a 8-10 mg aliquot of the dried and ground subsample using a CE Instruments NC2100 Elemental Analyzer in the Environmental Chemistry Laboratory at Brown University. Acetanilide and Cyclohexanone-2,4,Dinitrophenyl-hydrazone are used as calibration standards and certified reference material NIST2711 (Montana soil) and NIST1575 (Pine needles) were used to evaluate the data quality. In each run we included triplicate analyses of the calibration standards analyzed as unknowns and each of the reference materials. In addition at least 20% of the samples had either duplicate or triplicate analyses. The data reported in this study are averages of these analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University (dmurray@brown.edu).

Mercury (Hg ppm):

A subset of 111 spatially distributed samples was selected for mercury analysis. The data are reported as mercury concentrations in part per million (ppm). Approximately 200 mg of the dried and ground samples were analyzed on a Milestone DMA-80 direct mercury analyzer in the Environmental Chemistry Facilities at Brown University. Liquid mercury standards were used to calibrate the instrument and certified reference material NIST2711 (Montana Soil), NIST1575 (Pine Needles), and NRCC- PACS1 (Marine Sediment) and were used to evaluate the data quality. Approximately 10% of the samples had either duplicate or triplicate analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University (dmurray@brown.edu).

XRF Chemical Data:

A subset of 111 spatially distributed samples was selected for chemical analysis using X-Ray fluorescence spectrometry (XRF). 5 g of dried and ground sample was combined with 0.75 g copolywax as a binder and pressed into a pellet at 10 tons of pressure.

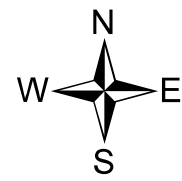
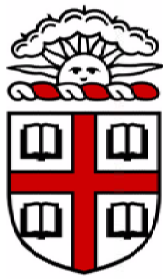
Samples were analyzed on a Phillips PW1480 wavelength dispersive sequential diffractometer. Omega Data Systems UniQuant 5 software was used to convert intensities to elemental concentrations. Seven pellets of Certified reference material (see Methodstable 1) were analyzed along with the samples from this study and used to adjust the UniQuant determined concentrations to provide more accurate data (see Methodstable 2). In general these adjustments were less than 10% of the concentrations. Approximately 20% of the samples had either duplicate or triplicate analyses and the data reported are averages of these analyses. Information on the QA/QC evaluation can be obtained from David Murray at Brown University (dmurray@brown.edu).

| Agency | SRM | ID | Si | Al | Fe | Na | Mg | K | Ca | Ti | Mn | Cr | Cu | Ni | Pb | Sr | V | Zn | |
|--------|-------|-----------|-----------|-------|------|------|------|------|------|------|-------|-------|-----|-----|-----|------|-----|-----|-----|
| NIST | 2711 | Measured | ms1 | 31.05 | 6.60 | 2.83 | 1.02 | 1.28 | 2.40 | 2.88 | 0.298 | 0.063 | 52 | 122 | 16 | 1126 | 234 | 69 | 389 |
| NIST | 2711 | Measured | ms1 | 31.04 | 6.60 | 2.85 | 1.01 | 1.27 | 2.39 | 2.89 | 0.301 | 0.064 | 44 | 116 | 20 | 1146 | 226 | 75 | 403 |
| NIST | 2711 | Measured | ms1 | 31.03 | 6.56 | 2.89 | 1.05 | 1.24 | 2.42 | 2.90 | 0.306 | 0.064 | 16 | 130 | 15 | 1187 | 238 | 61 | 392 |
| NIST | 2711 | Measured | ms1 | 30.95 | 6.70 | 2.85 | 1.04 | 1.21 | 2.41 | 2.90 | 0.299 | 0.065 | 39 | 110 | 16 | 1146 | 220 | 62 | 388 |
| NIST | 2711 | Measured | ms1 | 30.89 | 6.72 | 2.87 | 1.04 | 1.23 | 2.42 | 2.92 | 0.299 | 0.064 | 50 | 104 | 19 | 1157 | 237 | 63 | 389 |
| NIST | 2711 | Average | ms1 | 30.99 | 6.64 | 2.86 | 1.03 | 1.24 | 2.40 | 2.90 | 0.301 | 0.064 | 40 | 116 | 17 | 1153 | 231 | 66 | 392 |
| NIST | 2711 | Certified | | 30.44 | 6.53 | 2.89 | 1.14 | 1.05 | 2.45 | 2.88 | 0.306 | 0.064 | 47 | 114 | 21 | 1162 | 245 | 82 | 350 |
| NIST | 2711 | Measured | mt2711_kr | 30.99 | 6.50 | 2.91 | 1.11 | 1.25 | 2.42 | 2.91 | 0.307 | 0.066 | 38 | 118 | 19 | 1197 | 244 | 69 | 412 |
| NIST | 2711 | Measured | mt2711_kr | 30.98 | 6.50 | 2.96 | 1.06 | 1.21 | 2.43 | 2.94 | 0.315 | 0.068 | 16 | 123 | 18 | 1238 | 242 | 65 | 419 |
| NIST | 2711 | Measured | mt2711_kr | 30.93 | 6.58 | 2.92 | 1.08 | 1.23 | 2.42 | 2.89 | 0.312 | 0.069 | 45 | 129 | 17 | 1187 | 238 | 68 | 392 |
| NIST | 2711 | Measured | mt2711_kr | 30.88 | 6.61 | 2.92 | 1.10 | 1.23 | 2.42 | 2.92 | 0.308 | 0.067 | 18 | 133 | 15 | 1207 | 243 | 78 | 419 |
| NIST | 2711 | Measured | mt2711_kr | 30.93 | 6.57 | 2.94 | 1.07 | 1.22 | 2.42 | 2.92 | 0.311 | 0.066 | 36 | 117 | 17 | 1197 | 235 | 69 | 423 |
| NIST | 2711 | Average | mt2711_kr | 30.94 | 6.55 | 2.93 | 1.09 | 1.23 | 2.42 | 2.92 | 0.310 | 0.067 | 31 | 124 | 17 | 1205 | 240 | 69 | 413 |
| NIST | 2711 | Certified | | 30.44 | 6.53 | 2.89 | 1.14 | 1.05 | 2.45 | 2.88 | 0.306 | 0.064 | 47 | 114 | 21 | 1162 | 245 | 82 | 350 |
| NIST | 1646a | Measured | 1646a_kr | 39.96 | 2.40 | 1.90 | 1.01 | 0.48 | 0.87 | 0.52 | 0.431 | 0.018 | 24 | BD | 19 | BD | 65 | 35 | BD |
| NIST | 1646a | Measured | 1646a_kr | 39.91 | 2.39 | 1.93 | 1.03 | 0.48 | 0.88 | 0.53 | 0.432 | 0.020 | 45 | BD | 14 | BD | 65 | 32 | BD |
| NIST | 1646a | Measured | 1646a_kr | 39.93 | 2.39 | 1.93 | 0.99 | 0.49 | 0.87 | 0.52 | 0.432 | 0.020 | 38 | BD | 19 | BD | 70 | 31 | BD |
| NIST | 1646a | Measured | 1646a_kr | 39.90 | 2.42 | 1.92 | 1.04 | 0.49 | 0.87 | 0.52 | 0.430 | 0.020 | 32 | BD | 19 | BD | 60 | 36 | BD |
| NIST | 1646a | Average | 1646a_kr | 39.92 | 2.40 | 1.92 | 1.01 | 0.48 | 0.87 | 0.52 | 0.431 | 0.019 | 35 | BD | 17 | BD | 65 | 34 | BD |
| NIST | 1646a | Certified | | 40.00 | 2.30 | 2.01 | 0.74 | 0.39 | 0.86 | 0.52 | 0.456 | 0.023 | 41 | 10 | 23 | 12 | | 45 | 49 |
| USGS | MAG1 | Measured | mag1_kr | 25.48 | 8.18 | 5.07 | 2.34 | 1.84 | 2.95 | 0.94 | 0.432 | 0.075 | 83 | 23 | 57 | 26 | 154 | 136 | 134 |
| USGS | MAG1 | Measured | mag1_kr | 25.44 | 8.18 | 5.07 | 2.33 | 1.87 | 2.95 | 0.95 | 0.436 | 0.077 | 96 | 24 | 51 | BD | 157 | 130 | 128 |
| USGS | MAG1 | Measured | mag1_kr | 25.54 | 8.27 | 5.05 | 2.12 | 1.88 | 2.95 | 0.95 | 0.430 | 0.079 | 90 | 38 | 47 | 24 | 154 | 142 | 124 |
| USGS | MAG1 | Measured | mag1_kr | 25.62 | 8.31 | 5.08 | 2.04 | 1.89 | 2.93 | 0.95 | 0.433 | 0.079 | 89 | 30 | 60 | 25 | 152 | 141 | 141 |
| USGS | MAG1 | Measured | mag1_kr | 25.59 | 8.36 | 5.07 | 1.95 | 1.89 | 2.97 | 0.95 | 0.434 | 0.079 | 101 | BD | 46 | BD | 150 | 136 | 106 |
| USGS | MAG1 | Average | mag1_kr | 25.54 | 8.26 | 5.07 | 2.16 | 1.87 | 2.95 | 0.95 | 0.433 | 0.078 | 92 | 29 | 52 | 25 | 153 | 137 | 127 |
| USGS | MAG1 | Certified | | 23.54 | 8.66 | 4.76 | 2.84 | 1.81 | 2.95 | 0.98 | 0.450 | 0.076 | 97 | 30 | 53 | 24 | 146 | 140 | 130 |
| USGS | SCO1 | Measured | sco1_kr | 30.01 | 7.86 | 3.85 | 0.66 | 1.62 | 2.31 | 1.93 | 0.376 | 0.041 | 73 | 24 | 36 | 33 | 177 | 126 | 84 |
| USGS | SCO1 | Measured | sco1_kr | 29.96 | 7.87 | 3.90 | 0.64 | 1.63 | 2.30 | 1.94 | 0.374 | 0.042 | 69 | 26 | 25 | 30 | 177 | 135 | 106 |
| USGS | SCO1 | Measured | sco1_kr | 29.94 | 7.92 | 3.86 | 0.65 | 1.63 | 2.30 | 1.94 | 0.377 | 0.041 | 61 | 20 | 20 | BD | 173 | 134 | 102 |
| USGS | SCO1 | Measured | sco1_kr | 29.87 | 7.95 | 3.90 | 0.64 | 1.61 | 2.31 | 1.96 | 0.379 | 0.041 | 77 | 22 | 22 | 32 | 176 | 137 | 96 |
| USGS | SCO1 | Average | sco1_kr | 29.94 | 7.90 | 3.88 | 0.65 | 1.62 | 2.31 | 1.94 | 0.377 | 0.041 | 70 | 23 | 26 | 32 | 176 | 133 | 97 |
| USGS | SCO1 | Certified | | 29.35 | 7.24 | 3.60 | 0.67 | 1.64 | 2.30 | 1.87 | 0.376 | 0.041 | 68 | 29 | 27 | 31 | 174 | 131 | 103 |
| USGS | SDO1 | Measured | sdo1_kr | 24.15 | 6.84 | 6.38 | 0.34 | 0.94 | 2.82 | 0.73 | 0.430 | 0.032 | 58 | 53 | 97 | BD | 76 | 168 | BD |
| USGS | SDO1 | Measured | sdo1_kr | 22.83 | 6.53 | 5.73 | 0.34 | 0.90 | 2.56 | 0.67 | 0.387 | 0.029 | 46 | 49 | 86 | BD | 69 | 154 | BD |
| USGS | SDO1 | Measured | sdo1_kr | 22.78 | 6.59 | 5.71 | 0.33 | 0.90 | 2.54 | 0.65 | 0.389 | 0.027 | 52 | 35 | 98 | BD | 63 | 151 | 43 |
| USGS | SDO1 | Measured | sdo1_kr | 22.66 | 6.63 | 5.74 | 0.34 | 0.90 | 2.54 | 0.66 | 0.389 | 0.028 | 53 | 51 | 93 | BD | 69 | 153 | BD |
| USGS | SDO1 | Average | sdo1_kr | 23.10 | 6.65 | 5.89 | 0.34 | 0.91 | 2.62 | 0.68 | 0.399 | 0.029 | 52 | 47 | 94 | BD | 69 | 157 | 43 |
| USGS | SDO1 | Certified | | 23.04 | 6.49 | 6.54 | 0.28 | 0.93 | 2.78 | 0.75 | 0.426 | 0.033 | 66 | 60 | 100 | 28 | 75 | 160 | 64 |

| Agency | SRM | | ID | Si | Al | Fe | Na | Mg | K | Ca | Ti | Mn | Cr | Cu | Ni | Pb | Sr | V | Zn |
|----------|-------|-----------|----------|-------|------|------|------|------|------|------|-------|-------|-----|-----|----|-----|-----|-----|-----|
| USGS | SGR1 | Measured | sgr1_kr | 13.12 | 3.15 | 2.05 | 2.40 | 2.31 | 1.34 | 6.00 | 0.168 | 0.027 | 38 | 70 | 25 | 42 | 413 | 131 | 80 |
| USGS | SGR1 | Measured | sgr1_kr | 13.09 | 3.16 | 2.07 | 2.41 | 2.29 | 1.35 | 6.00 | 0.172 | 0.025 | BD | 76 | 29 | 41 | 421 | 120 | 88 |
| USGS | SGR1 | Measured | sgr1_kr | 13.08 | 3.14 | 2.08 | 2.39 | 2.34 | 1.35 | 6.01 | 0.172 | 0.027 | 21 | 77 | 26 | 38 | 426 | 126 | 100 |
| USGS | SGR1 | Measured | sgr1_kr | 12.87 | 3.12 | 2.16 | 2.48 | 2.24 | 1.37 | 6.14 | 0.176 | 0.027 | BD | 65 | 36 | 41 | 428 | 125 | 95 |
| USGS | SGR1 | Average | sgr1_kr | 13.04 | 3.14 | 2.09 | 2.42 | 2.30 | 1.35 | 6.04 | 0.172 | 0.027 | 30 | 72 | 29 | 40 | 422 | 125 | 91 |
| USGS | SGR1 | Certified | | 13.20 | 3.45 | 2.12 | 2.22 | 2.68 | 1.38 | 5.99 | 0.158 | 0.026 | 30 | 66 | 29 | 38 | 420 | 128 | 74 |
| NRC-INMS | BCSS1 | Measured | bcss1_kr | 28.56 | 6.64 | 3.85 | 2.41 | 1.73 | 2.06 | 0.64 | 0.484 | 0.025 | 133 | BD | 63 | 30 | 114 | 105 | 108 |
| NRC-INMS | BCSS1 | Certified | | 30.90 | 6.26 | 3.29 | 2.02 | 1.47 | 1.80 | 0.54 | 0.440 | 0.023 | 123 | 19 | 55 | 23 | 96 | 93 | 119 |
| NRC-INMS | PACS1 | Measured | pac1_kr | 25.84 | 5.75 | 4.69 | 3.22 | 1.51 | 1.22 | 1.80 | 0.433 | 0.044 | 116 | 451 | 46 | 345 | 271 | 127 | 801 |
| NRC-INMS | PACS1 | Certified | | 26.04 | 6.47 | 4.87 | 3.26 | 1.45 | 1.25 | 2.09 | 0.421 | 0.046 | 113 | 452 | 44 | 404 | 277 | 93 | 824 |
| NRC-INMS | MESS1 | Measured | mess1_kr | 27.44 | 8.46 | 4.36 | 1.20 | 1.66 | 2.54 | 1.51 | 0.430 | 0.035 | 103 | 39 | 53 | BD | 124 | 239 | 168 |
| NRC-INMS | MESS1 | Certified | | 27.77 | 8.57 | 4.35 | | | | | | | | | 49 | 22 | 125 | 252 | 172 |

Correction Factors

| Element | Slope | Intercept | R2 |
|---------|--------|-----------|--------|
| Na | 0.9506 | 0 | 0.9116 |
| Mg | 0.9247 | 0 | 0.9183 |
| Si | 1.0320 | 0 | 0.9755 |
| Al | 0.8286 | 0 | 0.9604 |
| K | 0.8626 | 0 | 0.9763 |
| Ca | 0.8293 | 0 | 0.9955 |
| Ti | 0.9100 | 0 | 0.9466 |
| Mn | 0.8607 | 0 | 0.9820 |
| Fe | 0.8836 | 0 | 0.9442 |
| Ni | 0.9268 | 0 | 0.9673 |
| Cu | 0.9399 | 0 | 0.9978 |
| Zn | 1.0760 | 20.628 | 0.9910 |
| Sr | 0.8174 | 0 | 0.9939 |
| Pb | 1.0146 | 0 | 0.9968 |
| V | 0.9045 | -20.085 | 0.9354 |
| Cr | 0.8744 | 0 | 0.9389 |



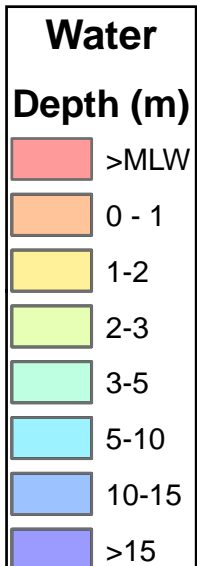
Brown University Narragansett Bay Sediment Project Grab Samples

Bay Areas

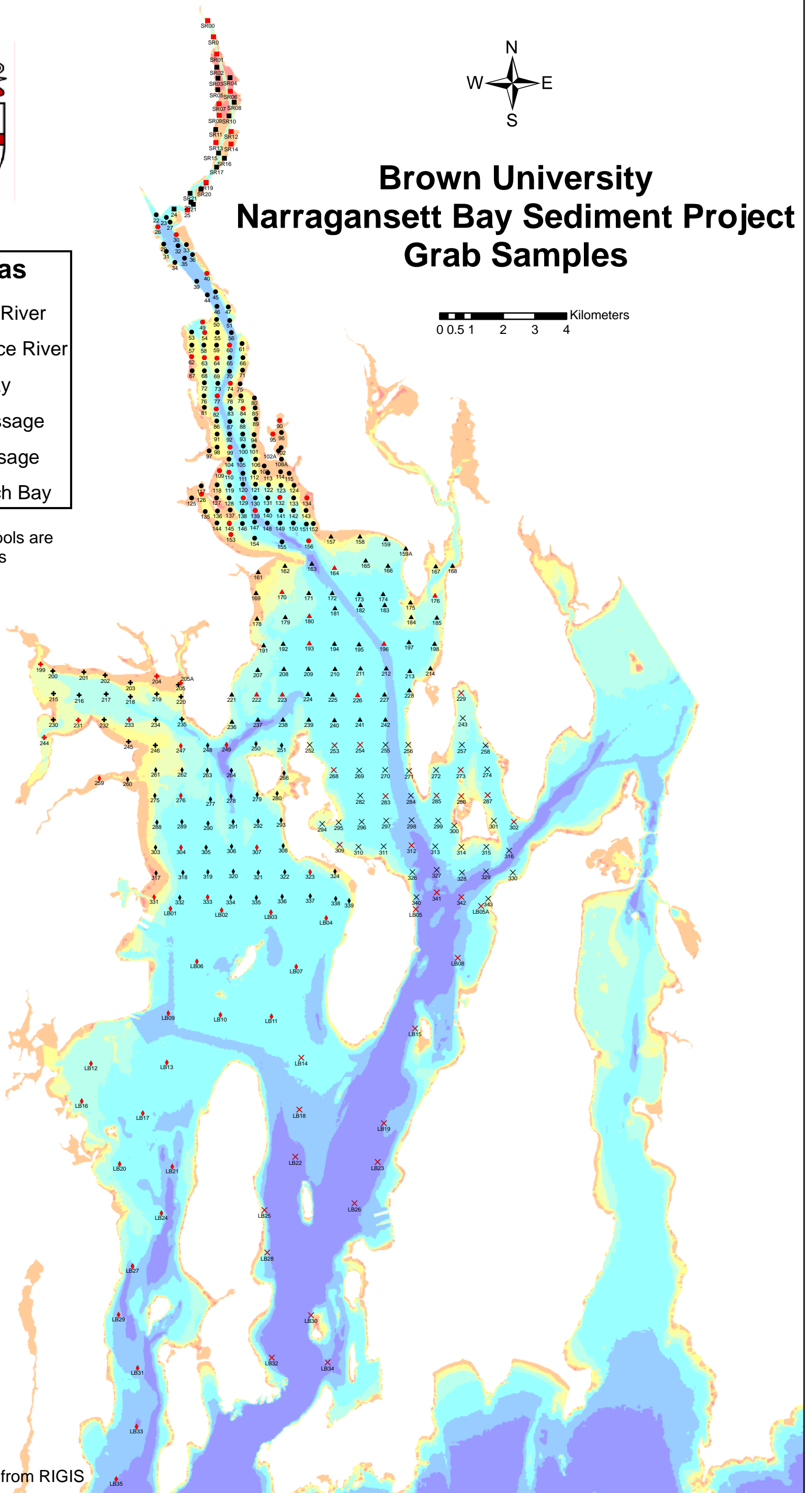
- Seekonk River
- Providence River
- ▲ Upper Bay
- ◆ West Passage
- × East Passage
- + Greenwich Bay

Red colored symbols are chemistry samples

0 0.5 1 2 3 4 Kilometers



Bathymetry and Shoreline from RIGIS



| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| SR | 1 | SR00 | SR00 | 41.87011 | -71.38142 | 7/28/05 | 72805 | 2.4 | 0.5 | 58.3 | 41.2 | 0.33 | 5.07 | 5.4 | 1 |
| SR | 2 | SR0 | SR0 | 41.86538 | -71.37922 | 7/28/05 | 72805 | 3.8 | 1.6 | 50.5 | 47.9 | 0.49 | 7.00 | 6.6 | 1 |
| SR | 3 | SR01 | SR01 | 41.86054 | -71.37794 | 7/28/05 | 72805 | 2.9 | 1.4 | 19.6 | 79.0 | 0.57 | 7.61 | 9.4 | 1 |
| SR | 4 | SR02 | SR02 | 41.85674 | -71.37795 | 7/28/05 | 72805 | 0.9 | 2.5 | 68.3 | 29.2 | 0.24 | 3.57 | 3.0 | 0 |
| SR | 5 | SR03 | SR03 | 41.85362 | -71.37753 | 7/28/05 | 72805 | 1.3 | 3.6 | 55.5 | 40.9 | 0.25 | 4.83 | 3.6 | 0 |
| SR | 6 | SR04 | SR04 | 41.85375 | -71.37294 | 7/28/05 | 72805 | 1.8 | 19.3 | 61.3 | 19.4 | 0.24 | 3.90 | 2.8 | 0 |
| SR | 7 | SR05 | SR05 | 41.85041 | -71.37755 | 7/28/05 | 72805 | 2.3 | 1.4 | 15.0 | 83.6 | 0.41 | 6.82 | 6.0 | 0 |
| SR | 8 | SR06 | SR06 | 41.84996 | -71.37282 | 7/28/05 | 72805 | 1.8 | 5.1 | 80.5 | 14.4 | 0.12 | 2.11 | 2.1 | 1 |
| SR | 9 | SR07 | SR07 | 41.84643 | -71.37708 | 7/28/05 | 72805 | 2.1 | 1.3 | 22.3 | 76.4 | 0.46 | 7.84 | 7.0 | 1 |
| SR | 10 | SR08 | SR08 | 41.84680 | -71.37133 | 7/28/05 | 72805 | 2.0 | 1.9 | 63.7 | 34.4 | 0.19 | 3.76 | 3.0 | 0 |
| SR | 11 | SR09 | SR09 | 41.84311 | -71.37707 | 7/28/05 | 72805 | 2.4 | 3.4 | 25.7 | 70.9 | 0.45 | 7.29 | 6.7 | 1 |
| SR | 12 | SR10 | SR10 | 41.84290 | -71.37332 | 7/28/05 | 72805 | 2.0 | 2.0 | 75.8 | 22.2 | 0.12 | 2.60 | 2.4 | 0 |
| SR | 13 | SR11 | SR11 | 41.83911 | -71.37840 | 7/28/05 | 72805 | 1.9 | 2.2 | 68.6 | 29.2 | 0.14 | 2.32 | 2.2 | 0 |
| SR | 14 | SR12 | SR12 | 41.83848 | -71.37254 | 7/28/05 | 72805 | 2.6 | 3.2 | 22.8 | 74.0 | 0.41 | 6.19 | 5.7 | 1 |
| SR | 15 | SR13 | SR13 | 41.83532 | -71.37831 | 7/28/05 | 72805 | 2.3 | 6.5 | 83.9 | 9.6 | 0.06 | 1.20 | 1.3 | 1 |
| SR | 16 | SR14 | SR14 | 41.83495 | -71.37259 | 7/28/05 | 72805 | 2.3 | 3.2 | 57.1 | 39.7 | 0.21 | 4.13 | 3.2 | 1 |
| SR | 17 | SR15 | SR15 | 41.83244 | -71.37735 | 7/28/05 | 72805 | 6.5 | 5.6 | 55.8 | 38.6 | 0.33 | 5.72 | 5.3 | 0 |
| SR | 18 | SR16 | SR16 | 41.83086 | -71.37510 | 7/28/05 | 72805 | 2.4 | 6.0 | 72.2 | 21.8 | 0.15 | 3.28 | 2.6 | 0 |
| SR | 19 | SR17 | SR17 | 41.82842 | -71.37807 | 7/28/05 | 72805 | 5.6 | 5.0 | 80.6 | 14.4 | 0.14 | 3.16 | 2.3 | 0 |
| SR | 20 | SR19 | SR19 | 41.82396 | -71.38209 | 7/28/05 | 72805 | 7.3 | 3.1 | 77.5 | 19.4 | 0.20 | 4.22 | 3.0 | 1 |
| SR | 21 | SR20 | SR20 | 41.82215 | -71.38409 | 7/28/05 | 72805 | 2.8 | 7.7 | 54.7 | 37.6 | 0.31 | 5.14 | 4.2 | 0 |
| SR | 22 | SR21 | SR21 | 41.82095 | -71.38816 | 7/28/05 | 72805 | 2.2 | 24.4 | 60.8 | 14.8 | 0.21 | 5.79 | 3.2 | 0 |
| SR | 23 | BSP20 | 20 | 41.81840 | -71.38783 | 9/30/03 | 93003 | 5.3 | 20.0 | 44.6 | 35.4 | 0.46 | 8.94 | 5.1 | 0 |
| SR | 24 | BSP21 | 21 | 41.81785 | -71.38692 | 9/30/03 | 93003 | 7.0 | 45.1 | 29.5 | 25.4 | 0.44 | 6.97 | 4.4 | 0 |
| PR | 25 | BSP22 | 22 | 41.81478 | -71.40102 | 9/30/03 | 93003 | 8.3 | 0.0 | 14.6 | 85.4 | 0.31 | 4.86 | 4.7 | 0 |
| PR | 26 | BSP23 | 23 | 41.81403 | -71.39722 | 9/30/03 | 93003 | 5.0 | 17.7 | 16.5 | 65.8 | 0.44 | 6.26 | 6.3 | 0 |
| SR | 27 | BSP24 | 24 | 41.81640 | -71.39425 | 9/30/03 | 93003 | 6.8 | 0.0 | 15.9 | 84.1 | 0.44 | 6.17 | 5.8 | 0 |
| SR | 28 | BSP25 | 25 | 41.81618 | -71.38923 | 9/30/03 | 93003 | 8.4 | 51.1 | 18.7 | 30.2 | 0.32 | 8.14 | 4.6 | 1 |
| PR | 29 | BSP26 | 26 | 41.81142 | -71.40045 | 9/30/03 | 93003 | 14.3 | 0.0 | 12.1 | 87.9 | 0.37 | 4.83 | 4.4 | 1 |
| PR | 30 | BSP27 | 27 | 41.81270 | -71.39577 | 9/30/03 | 93003 | 5.7 | 0.0 | 20.9 | 79.1 | 0.42 | 6.05 | 5.5 | 0 |
| PR | 31 | BSP29 | 29 | 41.80650 | -71.39818 | 9/30/03 | 93003 | 4.3 | 39.0 | 10.4 | 50.7 | 0.13 | 1.96 | 3.9 | 0 |
| PR | 32 | BSP30 | 30 | 41.80918 | -71.39340 | 9/30/03 | 93003 | 12.2 | 0.0 | 7.7 | 92.3 | 0.35 | 5.55 | 5.0 | 1 |
| PR | 33 | BSP31 | 31 | 41.80442 | -71.39718 | 9/30/03 | 93003 | 3.5 | 4.0 | 77.4 | 18.6 | 0.05 | 1.42 | 1.3 | 0 |
| PR | 34 | BSP32 | 32 | 41.80600 | -71.39272 | 9/30/03 | 93003 | 12.8 | 0.0 | 10.2 | 89.8 | 0.24 | 3.23 | 3.3 | 0 |
| PR | 35 | BSP33 | 33 | 41.80633 | -71.38957 | 9/30/03 | 93003 | 2.6 | 3.4 | 81.1 | 15.5 | 0.04 | 1.20 | 1.2 | 0 |
| PR | 36 | BSP34 | 34 | 41.80127 | -71.39397 | 9/30/03 | 93003 | 3.0 | 0.0 | 22.9 | 77.1 | 0.25 | 2.53 | 2.3 | 0 |
| PR | 37 | BSP35 | 35 | 41.80240 | -71.39035 | 9/30/03 | 93003 | 14.0 | 0.0 | 19.3 | 80.7 | 0.46 | 4.73 | 4.8 | 0 |
| PR | 38 | BSP36 | 36 | 41.80355 | -71.38725 | 9/30/03 | 93003 | 2.7 | 20.2 | 48.2 | 31.6 | 0.17 | 2.73 | 1.9 | 0 |
| PR | 39 | BSP39 | 39 | 41.79587 | -71.38573 | 9/30/03 | 93003 | 14.0 | 5.6 | 25.7 | 68.8 | 0.47 | 5.34 | 6.1 | 0 |
| PR | 40 | BSP40 | 40 | 41.79818 | -71.38182 | 9/30/03 | 93003 | 3.0 | 4.2 | 65.7 | 30.1 | 0.19 | 2.48 | 2.1 | 1 |
| PR | 41 | BSP44 | 44 | 41.79198 | -71.38168 | 9/30/03 | 93003 | 15.0 | 0.0 | 15.0 | 85.0 | 0.51 | 4.84 | 5.1 | 0 |
| PR | 42 | BSP45 | 45 | 41.79288 | -71.37853 | 9/30/03 | 93003 | 8.0 | 0.0 | 15.0 | 85.0 | 0.50 | 5.23 | 4.9 | 0 |
| PR | 43 | BSP46 | 46 | 41.78868 | -71.37800 | 7/15/03 | 71503 | 14.0 | 5.2 | 27.5 | 67.3 | 0.30 | 3.77 | 4.8 | 0 |
| PR | 44 | BSP47 | 47 | 41.78863 | -71.37373 | 7/15/03 | 71503 | 4.2 | 9.0 | 75.3 | 15.7 | 0.44 | 6.72 | 5.9 | 0 |
| PR | 45 | BSP49 | 49 | 41.78420 | -71.38347 | 7/15/03 | 71503 | 6.4 | 0.0 | 2.0 | 98.0 | 0.58 | 5.39 | 7.0 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| PR | 46 | BSP50 | 50 | 41.78507 | -71.37820 | 7/15/03 | 71503 | 4.2 | 36.6 | 31.9 | 31.5 | 0.29 | 3.64 | 4.2 | 0 |
| PR | 47 | BSP51 | 51 | 41.78475 | -71.37320 | 7/15/03 | 71503 | 8.9 | 3.2 | 33.7 | 63.1 | 0.22 | 3.00 | 2.9 | 0 |
| PR | 48 | BSP53 | 53 | 41.78145 | -71.38768 | 7/15/03 | 71503 | 5.6 | 1.1 | 18.8 | 80.1 | 0.43 | 4.40 | 7.3 | 0 |
| PR | 49 | BSP54 | 54 | 41.78128 | -71.38270 | 7/15/03 | 71503 | 5.3 | 0.0 | 13.0 | 87.0 | 0.52 | 4.61 | 5.5 | 1 |
| PR | 50 | BSP55 | 55 | 41.78127 | -71.37783 | 7/15/03 | 71503 | 3.9 | 5.4 | 34.1 | 60.5 | 0.30 | 3.89 | 4.5 | 0 |
| PR | 51 | BSP56 | 56 | 41.78122 | -71.37257 | 7/15/03 | 71503 | 14.7 | 2.5 | 21.9 | 75.6 | 0.36 | 3.46 | 4.3 | 0 |
| PR | 52 | BSP57 | 57 | 41.77767 | -71.38760 | 7/15/03 | 71503 | 3.6 | 4.3 | 39.8 | 55.9 | 0.25 | 2.83 | 3.0 | 0 |
| PR | 53 | BSP58 | 58 | 41.77767 | -71.38305 | 7/15/03 | 71503 | 4.0 | 20.7 | 26.3 | 53.0 | 0.39 | 3.84 | 3.8 | 0 |
| PR | 54 | BSP59 | 59 | 41.77772 | -71.37822 | 7/15/03 | 71503 | 3.6 | 52.1 | 23.6 | 24.3 | 0.29 | 7.80 | 3.9 | 0 |
| PR | 55 | BSP60 | 60 | 41.77773 | -71.37325 | 7/15/03 | 71503 | 9.6 | 0.5 | 3.7 | 95.8 | 0.46 | 4.18 | 5.5 | 1 |
| PR | 56 | BSP61 | 61 | 41.77815 | -71.36853 | 7/15/03 | 71503 | 4.1 | 6.0 | 23.9 | 70.2 | 0.44 | 5.16 | 5.1 | 0 |
| PR | 57 | BSP62 | 62 | 41.77445 | -71.38765 | 7/15/03 | 71503 | 3.5 | 7.3 | 72.1 | 20.6 | 0.06 | 1.22 | 1.3 | 1 |
| PR | 58 | BSP63 | 63 | 41.77412 | -71.38280 | 7/15/03 | 71503 | 6.3 | 2.0 | 2.4 | 95.6 | 0.52 | 5.04 | 5.8 | 1 |
| PR | 59 | BSP64 | 64 | 41.77403 | -71.37805 | 7/15/03 | 71503 | 4.2 | 11.3 | 58.3 | 30.3 | 0.20 | 3.07 | 2.7 | 1 |
| PR | 60 | BSP65 | 65 | 41.77407 | -71.37315 | 7/15/03 | 71503 | 11.0 | 0.0 | 15.7 | 84.3 | 0.48 | 4.40 | 5.1 | 0 |
| PR | 61 | BSP66 | 66 | 41.77412 | -71.36818 | 7/15/03 | 71503 | 4.4 | 11.9 | 48.7 | 39.4 | 0.35 | 2.79 | 2.8 | 0 |
| PR | 62 | BSP67 | 67 | 41.77047 | -71.38745 | 7/15/03 | 71503 | 2.5 | 0.1 | 97.3 | 2.5 | 0.03 | 0.30 | 0.4 | 0 |
| PR | 63 | BSP68 | 68 | 41.77050 | -71.38280 | 7/15/03 | 71503 | 5.0 | 4.0 | 23.8 | 72.2 | 0.32 | 4.21 | 4.4 | 0 |
| PR | 64 | BSP69 | 69 | 41.77040 | -71.37805 | 7/15/03 | 71503 | 4.6 | 2.8 | 26.8 | 70.4 | 0.37 | 4.01 | 4.1 | 0 |
| PR | 65 | BSP70 | 70 | 41.77033 | -71.37327 | 7/15/03 | 71503 | 16.1 | 1.1 | 20.7 | 78.2 | 0.35 | 3.72 | 4.3 | 0 |
| PR | 66 | BSP71 | 71 | 41.77058 | -71.36837 | 7/15/03 | 71503 | 3.0 | 0.0 | 98.3 | 1.7 | 0.02 | 0.14 | 0.4 | 0 |
| PR | 67 | BSP72 | 72 | 41.76695 | -71.38287 | 7/15/03 | 71503 | 4.9 | 5.1 | 30.3 | 64.6 | 0.39 | 5.34 | 5.0 | 0 |
| PR | 68 | BSP73 | 73 | 41.76678 | -71.37772 | 7/15/03 | 71503 | 6.2 | 22.3 | 28.7 | 49.0 | 0.57 | 4.05 | 4.3 | 0 |
| PR | 69 | BSP74 | 74 | 41.76682 | -71.37295 | 7/15/03 | 71503 | 5.1 | 0.9 | 82.4 | 16.7 | 0.06 | 1.26 | 1.1 | 1 |
| PR | 70 | BSP75 | 75 | 41.76663 | -71.36928 | 7/15/03 | 71503 | 2.7 | 1.4 | 91.8 | 6.8 | 0.36 | 4.18 | 0.5 | 0 |
| PR | 71 | BSP76 | 76 | 41.76323 | -71.38302 | 7/15/03 | 71503 | 4.6 | 5.7 | 33.8 | 60.4 | 0.38 | 4.14 | 5.2 | 0 |
| PR | 72 | BSP77 | 77 | 41.76323 | -71.37797 | 7/15/03 | 71503 | 13.3 | 0.2 | 5.4 | 94.5 | 0.42 | 4.01 | 4.9 | 1 |
| PR | 73 | BSP78 | 78 | 41.76325 | -71.37310 | 7/15/03 | 71503 | 3.4 | 1.0 | 97.1 | 1.9 | 0.03 | 0.25 | 0.4 | 0 |
| PR | 74 | BSP79 | 79 | 41.76333 | -71.36902 | 7/15/03 | 71503 | 2.7 | 1.0 | 66.8 | 32.2 | 0.16 | 1.79 | 1.9 | 0 |
| PR | 75 | BSP80 | 80 | 41.76268 | -71.36385 | 7/15/03 | 71503 | 2.5 | 10.3 | 89.8 | 0.0 | 0.04 | 0.38 | 0.7 | 0 |
| PR | 76 | BSP81 | 81 | 41.75998 | -71.38287 | 7/10/03 | 71003 | 2.9 | 22.0 | 65.3 | 12.7 | 0.25 | 6.28 | 5.2 | 0 |
| PR | 77 | BSP82 | 82 | 41.75952 | -71.37838 | 7/10/03 | 71003 | 6.6 | 3.8 | 19.8 | 76.5 | 0.45 | 4.71 | 5.5 | 1 |
| PR | 78 | BSP83 | 83 | 41.75975 | -71.37288 | 7/10/03 | 71003 | 5.4 | 33.2 | 23.5 | 43.3 | 0.43 | 4.40 | 4.3 | 0 |
| PR | 79 | BSP84 | 84 | 41.75973 | -71.36820 | 7/10/03 | 71003 | 4.0 | 6.6 | 47.2 | 46.3 | 0.23 | 2.79 | 3.2 | 1 |
| PR | 80 | BSP85 | 85 | 41.75983 | -71.36357 | 7/10/03 | 71003 | 3.2 | 57.6 | 24.5 | 18.0 | 0.23 | 2.76 | 2.9 | 0 |
| PR | 81 | BSP86 | 86 | 41.75612 | -71.37815 | 7/10/03 | 71003 | 4.9 | 0.1 | 37.1 | 62.8 | 0.40 | 4.40 | 4.4 | 0 |
| PR | 82 | BSP87 | 87 | 41.75593 | -71.37315 | 7/10/03 | 71003 | 7.9 | 8.6 | 29.7 | 61.7 | 0.35 | 4.08 | 4.4 | 0 |
| PR | 83 | BSP88 | 88 | 41.75610 | -71.36835 | 7/10/03 | 71003 | 5.1 | 15.7 | 34.4 | 49.9 | 0.32 | 4.04 | 4.0 | 0 |
| PR | 84 | BSP89 | 89 | 41.75672 | -71.36333 | 7/10/03 | 71003 | 1.6 | 0.2 | 97.6 | 2.2 | 0.03 | 0.18 | 0.3 | 0 |
| PR | 85 | BSP90 | 90 | 41.75618 | -71.35428 | 7/15/03 | 71503 | 3.7 | 0.6 | 69.4 | 30.0 | 0.18 | 2.37 | 2.3 | 1 |
| PR | 86 | BSP91 | 91 | 41.75245 | -71.37802 | 7/10/03 | 71003 | 3.4 | 14.4 | 75.1 | 10.5 | 0.09 | 0.73 | 0.7 | 0 |
| PR | 87 | BSP92 | 92 | 41.75237 | -71.37337 | 7/10/03 | 71003 | 15.3 | 0.6 | 19.7 | 79.6 | 0.40 | 3.77 | 4.6 | 0 |
| PR | 88 | BSP93 | 93 | 41.75243 | -71.36830 | 7/10/03 | 71003 | 6.5 | 9.1 | 38.0 | 52.9 | 0.36 | 4.13 | 4.1 | 0 |
| PR | 89 | BSP94 | 94 | 41.75220 | -71.36403 | 7/10/03 | 71003 | 2.8 | 0.2 | 99.3 | 0.5 | 0.03 | 0.25 | 0.4 | 0 |
| PR | 90 | BSP95 | 95 | 41.75233 | -71.35688 | 7/10/03 | 71003 | 3.4 | 6.5 | 35.2 | 58.3 | 0.62 | 3.45 | 4.0 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| PR | 91 | BSP96 | 96 | 41.75282 | -71.35360 | 7/10/03 | 71003 | 2.7 | 1.1 | 31.4 | 67.4 | 0.64 | 5.49 | 5.8 | 0 |
| PR | 92 | BSP97 | 97 | 41.74763 | -71.38107 | 7/10/03 | 71003 | 2.9 | 2.4 | 59.7 | 37.9 | 0.10 | 1.06 | 1.1 | 0 |
| PR | 93 | BSP98 | 98 | 41.74872 | -71.37805 | 7/10/03 | 71003 | 3.3 | 1.5 | 82.9 | 15.6 | 0.07 | 0.83 | 0.9 | 0 |
| PR | 94 | BSP99 | 99 | 41.74865 | -71.37310 | 7/10/03 | 71003 | 7.3 | 0.0 | 7.3 | 92.7 | 0.33 | 3.41 | 4.0 | 1 |
| PR | 95 | BSP100 | 100 | 41.74892 | -71.36813 | 7/10/03 | 71003 | 7.3 | 8.3 | 22.9 | 68.8 | 0.40 | 3.68 | 4.3 | 0 |
| PR | 96 | BSP101 | 101 | 41.74890 | -71.36410 | 7/10/03 | 71003 | 3.3 | 0.0 | 97.8 | 2.2 | 0.04 | 0.24 | 0.5 | 0 |
| PR | 97 | BSP102 | 102 | 41.74852 | -71.35372 | 7/10/03 | 71003 | 3.1 | 38.6 | 56.8 | 4.6 | 0.14 | 1.81 | 1.2 | 0 |
| PR | 98 | BSP102A | 102A | 41.74753 | -71.35473 | 7/10/03 | 71003 | 3.4 | 3.7 | 62.3 | 34.0 | 0.61 | 4.79 | 4.4 | 0 |
| PR | 99 | BSP104 | 104 | 41.74520 | -71.37352 | 7/10/03 | 71003 | 2.4 | 5.9 | 91.7 | 2.4 | 0.03 | 0.19 | 0.4 | 0 |
| PR | 100 | BSP105 | 105 | 41.74510 | -71.36897 | 7/10/03 | 71003 | 12.2 | 3.4 | 45.2 | 51.4 | 0.23 | 2.21 | 2.3 | 0 |
| PR | 101 | BSP106 | 106 | 41.74518 | -71.36342 | 7/10/03 | 71003 | 3.5 | 3.4 | 92.3 | 4.3 | 0.05 | 0.48 | 0.6 | 0 |
| PR | 102 | BSP107 | 107 | 41.74327 | -71.36018 | 7/10/03 | 71003 | 2.0 | 23.1 | 68.6 | 8.3 | 0.07 | 1.03 | 0.6 | 0 |
| PR | 103 | BSP108A | 108A | 41.74528 | -71.35366 | 7/10/03 | 71003 | 2.5 | 1.1 | 95.8 | 3.1 | 0.05 | 0.23 | 1.9 | 0 |
| PR | 104 | BSP109 | 109 | 41.74198 | -71.37712 | 7/10/03 | 71003 | 4.1 | 35.4 | 55.5 | 9.1 | 0.19 | 0.94 | 1.2 | 1 |
| PR | 105 | BSP110 | 110 | 41.74153 | -71.37352 | 7/10/03 | 71003 | 6.3 | 9.2 | 60.7 | 30.1 | 0.22 | 2.39 | 3.7 | 1 |
| PR | 106 | BSP111 | 111 | 41.74118 | -71.36830 | 7/10/03 | 71003 | 15.4 | 5.9 | 60.3 | 33.8 | 0.17 | 1.61 | 2.2 | 0 |
| PR | 107 | BSP112 | 112 | 41.74152 | -71.36390 | 7/10/03 | 71003 | 3.3 | 12.0 | 85.5 | 2.5 | 0.05 | 1.12 | 0.4 | 0 |
| PR | 108 | BSP113 | 113 | 41.74135 | -71.35877 | 7/10/03 | 71003 | 2.6 | 6.8 | 91.3 | 2.0 | 0.04 | 0.41 | 0.4 | 0 |
| PR | 109 | BSP114 | 114 | 41.74168 | -71.35396 | 7/10/03 | 71003 | 2.5 | 4.2 | 94.4 | 1.4 | 0.03 | 0.19 | 0.3 | 0 |
| PR | 110 | BSP115 | 115 | 41.74117 | -71.35073 | 7/10/03 | 71003 | 2.5 | 7.1 | 90.0 | 2.9 | 0.03 | 0.21 | 0.3 | 0 |
| PR | 111 | BSP117 | 117 | 41.73767 | -71.38410 | 7/8/03 | 70803 | 2.6 | 6.3 | 23.6 | 70.1 | 0.62 | 5.51 | 5.6 | 0 |
| PR | 112 | BSP118 | 118 | 41.73793 | -71.37806 | 7/8/03 | 70803 | 2.8 | 18.3 | 78.2 | 3.5 | 0.06 | 0.49 | 0.5 | 0 |
| PR | 113 | BSP119 | 119 | 41.73783 | -71.37334 | 7/8/03 | 70803 | 5.5 | 10.8 | 31.3 | 57.9 | 0.31 | 2.97 | 3.5 | 0 |
| PR | 114 | BSP120 | 120 | 41.73802 | -71.36825 | 7/8/03 | 70803 | 14.0 | 5.0 | 30.7 | 64.4 | 0.43 | 4.06 | 5.5 | 0 |
| PR | 115 | BSP121 | 121 | 41.73802 | -71.36351 | 7/8/03 | 70803 | 2.9 | 12.2 | 86.0 | 1.8 | 0.11 | 0.63 | 0.5 | 0 |
| PR | 116 | BSP122 | 122 | 41.73796 | -71.35856 | 7/8/03 | 70803 | 3.6 | 40.6 | 57.7 | 1.7 | 0.03 | 0.35 | 0.6 | 0 |
| PR | 117 | BSP123 | 123 | 41.73779 | -71.35381 | 7/8/03 | 70803 | 3.5 | 1.8 | 96.1 | 2.0 | 0.02 | 0.26 | 0.4 | 0 |
| PR | 118 | BSP124 | 124 | 41.73778 | -71.34889 | 7/8/03 | 70803 | 2.7 | 9.0 | 89.6 | 1.5 | 0.04 | 0.31 | 0.3 | 0 |
| PR | 119 | BSP125 | 125 | 41.73417 | -71.38777 | 7/8/03 | 70803 | 2.7 | 29.3 | 24.1 | 46.6 | 0.58 | 5.27 | 5.5 | 0 |
| PR | 120 | BSP126 | 126 | 41.73527 | -71.38405 | 7/8/03 | 70803 | 2.7 | 9.1 | 32.6 | 58.4 | 0.37 | 3.09 | 3.4 | 1 |
| PR | 121 | BSP127 | 127 | 41.73426 | -71.37828 | 7/8/03 | 70803 | 2.8 | 0.3 | 97.7 | 2.0 | 0.01 | 0.12 | 0.2 | 0 |
| PR | 122 | BSP128 | 128 | 41.73418 | -71.37350 | 7/8/03 | 70803 | 5.2 | 9.0 | 62.9 | 28.1 | 0.34 | 3.92 | 2.5 | 0 |
| PR | 123 | BSP129 | 129 | 41.73424 | -71.36814 | 7/8/03 | 70803 | 9.9 | 8.6 | 35.0 | 56.4 | 0.31 | 3.72 | 4.5 | 1 |
| PR | 124 | BSP130 | 130 | 41.73415 | -71.36361 | 7/8/03 | 70803 | 8.0 | 13.7 | 35.5 | 50.7 | 0.39 | 3.28 | 3.8 | 0 |
| PR | 125 | BSP131 | 131 | 41.73424 | -71.35883 | 7/8/03 | 70803 | 5.2 | 56.9 | 31.5 | 11.7 | 0.20 | 3.00 | 2.3 | 0 |
| PR | 126 | BSP132 | 132 | 41.73433 | -71.35425 | 7/8/03 | 70803 | 5.6 | 11.0 | 63.6 | 25.4 | 0.26 | 2.22 | 2.3 | 1 |
| PR | 127 | BSP133 | 133 | 41.73416 | -71.34901 | 7/8/03 | 70803 | 3.9 | 6.1 | 91.8 | 2.2 | 0.05 | 0.54 | 0.5 | 0 |
| PR | 128 | BSP134 | 134 | 41.73417 | -71.34404 | 7/8/03 | 70803 | 1.7 | 7.7 | 89.6 | 2.7 | 0.03 | 0.17 | 0.4 | 1 |
| PR | 129 | BSP135 | 135 | 41.73037 | -71.38255 | 7/8/03 | 70803 | 3.0 | 16.8 | 39.3 | 44.0 | 0.30 | 2.46 | 2.0 | 0 |
| PR | 130 | BSP136 | 136 | 41.73056 | -71.37792 | 7/8/03 | 70803 | 1.5 | 0.0 | 97.0 | 3.0 | 0.02 | 0.18 | 0.4 | 0 |
| PR | 131 | BSP137 | 137 | 41.73074 | -71.37310 | 7/8/03 | 70803 | 4.4 | 4.0 | 94.5 | 1.4 | 0.03 | 0.23 | 0.4 | 0 |
| PR | 132 | BSP138 | 138 | 41.73053 | -71.36850 | 7/8/03 | 70803 | 9.1 | 14.4 | 23.2 | 62.4 | 0.30 | 4.07 | 4.5 | 0 |
| PR | 133 | BSP139 | 139 | 41.73062 | -71.36364 | 7/8/03 | 70803 | 9.8 | 44.6 | 19.3 | 36.2 | 0.37 | 4.71 | 4.5 | 1 |
| PR | 134 | BSP140 | 140 | 41.73065 | -71.35893 | 7/8/03 | 70803 | 8.0 | 22.2 | 28.9 | 48.9 | 0.42 | 4.55 | 4.7 | 0 |
| PR | 135 | BSP141 | 141 | 41.73060 | -71.35388 | 7/8/03 | 70803 | 8.0 | 41.9 | 24.7 | 33.5 | 0.52 | 4.73 | 4.8 | 0 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| PR | 136 | BSP142 | 142 | 41.73058 | -71.34910 | 7/8/03 | 70803 | 5.7 | 22.8 | 72.7 | 4.6 | 0.13 | 1.08 | 0.8 | 0 |
| PR | 137 | BSP143 | 143 | 41.73055 | -71.34437 | 7/8/03 | 70803 | 3.0 | 4.9 | 93.9 | 1.3 | 0.04 | 0.26 | 0.5 | 0 |
| PR | 138 | BSP144 | 144 | 41.72700 | -71.37818 | 7/8/03 | 70803 | 3.4 | 25.1 | 53.1 | 21.8 | 0.21 | 1.71 | 1.4 | 0 |
| PR | 139 | BSP145 | 145 | 41.72698 | -71.37343 | 7/8/03 | 70803 | 4.3 | 14.5 | 64.4 | 21.1 | 0.15 | 1.08 | 1.0 | 1 |
| PR | 140 | BSP146 | 146 | 41.72697 | -71.36852 | 7/8/03 | 70803 | 6.2 | 8.9 | 31.9 | 59.2 | 0.36 | 3.54 | 3.2 | 0 |
| PR | 141 | BSP147 | 147 | 41.72730 | -71.36388 | 7/8/03 | 70803 | 10.6 | 0.4 | 18.9 | 80.7 | 0.44 | 3.82 | 5.0 | 0 |
| PR | 142 | BSP148 | 148 | 41.72700 | -71.35905 | 7/8/03 | 70803 | 13.9 | 6.4 | 34.4 | 59.2 | 0.39 | 3.52 | 4.7 | 0 |
| PR | 143 | BSP149 | 149 | 41.72702 | -71.35420 | 7/8/03 | 70803 | 8.8 | 7.0 | 37.6 | 55.4 | 0.42 | 4.36 | 4.6 | 0 |
| PR | 144 | BSP150 | 150 | 41.72697 | -71.34917 | 7/8/03 | 70803 | 10.1 | 9.3 | 35.1 | 55.6 | 0.40 | 4.04 | 5.7 | 0 |
| PR | 145 | BSP151 | 151 | 41.72675 | -71.34423 | 7/8/03 | 70803 | 6.9 | 19.4 | 67.0 | 13.6 | 0.18 | 1.62 | 1.6 | 0 |
| PR | 146 | BSP152 | 152 | 41.72687 | -71.34158 | 7/8/03 | 70803 | 4.2 | 9.5 | 84.5 | 6.0 | 0.05 | 0.71 | 0.8 | 0 |
| PR | 147 | BSP153 | 153 | 41.72383 | -71.37287 | 7/2/03 | 70203 | 4.2 | 45.6 | 31.8 | 22.6 | 0.46 | 4.01 | 3.8 | 1 |
| PR | 148 | BSP154 | 154 | 41.72271 | -71.36389 | 7/2/03 | 70203 | 5.7 | 1.2 | 84.7 | 14.1 | 0.09 | 0.81 | 0.7 | 0 |
| PR | 149 | BSP155 | 155 | 41.72175 | -71.35352 | 7/8/03 | 70803 | 10.3 | 0.6 | 21.7 | 77.7 | 0.37 | 3.59 | 4.3 | 0 |
| PR | 150 | BSP156 | 156 | 41.72195 | -71.34338 | 7/2/03 | 70203 | 6.5 | 38.9 | 34.1 | 27.0 | 0.22 | 1.68 | 3.7 | 1 |
| UB | 151 | BSP157 | 157 | 41.72323 | -71.33492 | 7/2/03 | 70203 | 2.3 | 0.1 | 98.7 | 1.2 | 0.03 | 0.21 | 0.4 | 0 |
| UB | 152 | BSP158 | 158 | 41.72330 | -71.32391 | 7/2/03 | 70203 | 3.2 | 6.6 | 91.7 | 1.7 | 0.04 | 0.24 | 0.3 | 0 |
| UB | 153 | BSP159 | 159 | 41.72252 | -71.31407 | 7/2/03 | 70203 | 5.0 | 64.7 | 23.5 | 11.8 | 0.65 | 5.28 | 5.1 | 0 |
| UB | 154 | BSP159A | 159A | 41.71978 | -71.30652 | 7/2/03 | 70203 | 2.4 | 0.5 | 95.9 | 3.6 | 0.02 | 0.19 | 0.3 | 0 |
| UB | 155 | BSP161 | 161 | 41.71324 | -71.36254 | 7/2/03 | 70203 | 1.6 | 15.7 | 82.8 | 1.4 | 0.03 | 0.25 | 0.4 | 0 |
| UB | 156 | BSP162 | 162 | 41.71498 | -71.35236 | 7/2/03 | 70203 | 4.0 | 7.9 | 90.4 | 1.7 | 0.03 | 0.35 | 0.4 | 0 |
| UB | 157 | BSP163 | 163 | 41.71550 | -71.34216 | 7/2/03 | 70203 | 17.1 | 18.3 | 49.6 | 32.1 | 0.17 | 2.27 | 2.7 | 0 |
| UB | 158 | BSP164 | 164 | 41.71438 | -71.33362 | 7/2/03 | 70203 | 5.5 | 25.7 | 64.1 | 10.3 | 0.14 | 5.02 | 1.8 | 1 |
| UB | 159 | BSP165 | 165 | 41.71641 | -71.32180 | 7/2/03 | 70203 | 6.0 | 33.5 | 54.9 | 11.6 | 0.16 | 1.39 | 1.6 | 0 |
| UB | 160 | BSP166 | 166 | 41.71498 | -71.31327 | 7/2/03 | 70203 | 6.8 | 26.0 | 53.2 | 20.8 | 0.28 | 2.13 | 2.3 | 0 |
| UB | 161 | BSP167 | 167 | 41.71474 | -71.29520 | 6/25/03 | 62503 | 2.9 | 0.1 | 78.5 | 21.4 | 0.07 | 1.04 | 1.2 | 0 |
| UB | 162 | BSP168 | 168 | 41.71489 | -71.28884 | 6/25/03 | 62503 | 1.9 | 0.4 | 99.6 | 0.1 | 0.03 | 0.29 | 0.4 | 0 |
| UB | 163 | BSP169 | 169 | 41.70725 | -71.36341 | 7/2/03 | 70203 | 2.9 | 2.0 | 96.6 | 1.4 | 0.03 | 0.31 | 0.5 | 0 |
| UB | 164 | BSP170 | 170 | 41.70758 | -71.35352 | 7/2/03 | 70203 | 4.5 | 16.5 | 82.4 | 1.2 | 0.02 | 0.18 | 0.4 | 1 |
| UB | 165 | BSP171 | 171 | 41.70726 | -71.34337 | 7/2/03 | 70203 | 5.5 | 8.5 | 89.0 | 2.5 | 0.15 | 1.36 | 0.6 | 0 |
| UB | 166 | BSP172 | 172 | 41.70726 | -71.33448 | 7/2/03 | 70203 | 10.4 | 26.8 | 23.8 | 49.5 | 0.46 | 3.92 | 4.3 | 0 |
| UB | 167 | BSP173 | 173 | 41.70690 | -71.32431 | 7/2/03 | 70203 | 7.4 | 5.5 | 36.0 | 58.5 | 0.31 | 4.03 | 4.3 | 0 |
| UB | 168 | BSP174 | 174 | 41.70684 | -71.31515 | 7/2/03 | 70203 | 7.3 | 1.8 | 32.1 | 66.1 | 0.44 | 4.06 | 4.9 | 0 |
| UB | 169 | BSP175 | 175 | 41.70444 | -71.30479 | 6/25/03 | 62503 | 2.9 | 0.7 | 97.5 | 1.8 | 0.05 | 0.37 | 0.5 | 0 |
| UB | 170 | BSP176 | 176 | 41.70638 | -71.29543 | 6/25/03 | 62503 | 4.1 | 0.0 | 76.7 | 23.3 | 0.22 | 2.20 | 2.0 | 1 |
| UB | 171 | BSP178 | 178 | 41.70000 | -71.36300 | 7/2/03 | 70203 | 3.6 | 6.2 | 92.3 | 1.5 | 0.04 | 0.27 | 0.4 | 0 |
| UB | 172 | BSP179 | 179 | 41.70034 | -71.35225 | 7/2/03 | 70203 | 5.9 | 36.7 | 59.5 | 3.8 | 0.13 | 0.83 | 0.7 | 0 |
| UB | 173 | BSP180 | 180 | 41.70069 | -71.34321 | 7/2/03 | 70203 | 7.2 | 2.0 | 83.1 | 15.0 | 0.08 | 0.99 | 1.1 | 1 |
| UB | 174 | BSP181 | 181 | 41.70284 | -71.33342 | 7/2/03 | 70203 | 9.1 | 10.3 | 34.1 | 55.6 | 0.43 | 3.75 | 4.7 | 0 |
| UB | 175 | BSP182 | 182 | 41.70373 | -71.32379 | 7/2/03 | 70203 | 7.9 | 7.2 | 16.0 | 76.8 | 0.39 | 3.56 | 4.3 | 0 |
| UB | 176 | BSP183 | 183 | 41.70370 | -71.31458 | 7/2/03 | 70203 | 7.8 | 8.8 | 15.1 | 76.1 | 0.37 | 4.17 | 4.4 | 0 |
| UB | 177 | BSP184 | 184 | 41.70030 | -71.30451 | 6/25/03 | 62503 | 4.0 | 0.0 | 97.2 | 2.8 | 0.09 | 1.11 | 0.8 | 0 |
| UB | 178 | BSP185 | 185 | 41.70018 | -71.29483 | 6/25/03 | 62503 | 6.1 | 0.1 | 58.0 | 41.9 | 0.35 | 3.78 | 4.0 | 0 |
| UB | 179 | BSP191 | 191 | 41.69231 | -71.36055 | 7/2/03 | 70203 | 5.8 | 12.6 | 75.0 | 12.3 | 0.13 | 2.65 | 1.5 | 0 |
| UB | 180 | BSP192 | 192 | 41.69280 | -71.35307 | 7/2/03 | 70203 | 8.4 | 5.7 | 33.3 | 61.1 | 0.46 | 4.42 | 5.2 | 0 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| UB | 181 | BSP193 | 193 | 41.69292 | -71.34322 | 7/2/03 | 70203 | 7.9 | 25.5 | 37.6 | 36.9 | 0.32 | 3.40 | 3.7 | 1 |
| UB | 182 | BSP194 | 194 | 41.69282 | -71.33365 | 7/2/03 | 70203 | 7.7 | 5.3 | 31.1 | 63.6 | 0.37 | 3.60 | 3.5 | 0 |
| UB | 183 | BSP195 | 195 | 41.69262 | -71.32432 | 7/2/03 | 70203 | 7.5 | 29.8 | 21.3 | 48.9 | 0.39 | 3.94 | 4.4 | 0 |
| UB | 184 | BSP196 | 196 | 41.69267 | -71.31485 | 7/2/03 | 70203 | 11.1 | 7.8 | 35.1 | 57.1 | 0.21 | 3.34 | 2.9 | 1 |
| UB | 185 | BSP197 | 197 | 41.69320 | -71.30540 | 6/25/03 | 62503 | 7.2 | 0.2 | 40.2 | 59.7 | 0.36 | 4.01 | 4.4 | 0 |
| UB | 186 | BSP198 | 198 | 41.69266 | -71.29573 | 6/25/03 | 62503 | 6.3 | 0.0 | 56.4 | 43.6 | 0.33 | 4.20 | 3.9 | 0 |
| GB | 187 | BSP199 | 199 | 41.68690 | -71.44505 | 8/14/03 | 81403 | 4.2 | 0.0 | 47.2 | 52.8 | 0.31 | 2.56 | 3.5 | 1 |
| GB | 188 | BSP200 | 200 | 41.68505 | -71.44042 | 8/14/03 | 81403 | 5.1 | 0.0 | 51.4 | 48.6 | 0.32 | 2.80 | 3.0 | 0 |
| GB | 189 | BSP201 | 201 | 41.68463 | -71.42868 | 8/14/03 | 81403 | 3.6 | 0.0 | 98.7 | 1.3 | 0.02 | 0.24 | 0.2 | 0 |
| GB | 190 | BSP202 | 202 | 41.68377 | -71.42057 | 8/14/03 | 81403 | 2.9 | 0.0 | 96.4 | 3.6 | 0.05 | 0.23 | 0.4 | 0 |
| GB | 191 | BSP203 | 203 | 41.68170 | -71.41103 | 8/14/03 | 81403 | 4.4 | 0.0 | 98.3 | 1.7 | 0.04 | 0.19 | 4.0 | 0 |
| GB | 192 | BSP204 | 204 | 41.68352 | -71.40105 | 8/14/03 | 81403 | 2.0 | 0.0 | 99.1 | 0.9 | 0.05 | 0.24 | 0.2 | 1 |
| GB | 193 | BSP205 | 205 | 41.68157 | -71.39200 | 8/14/03 | 81403 | 6.5 | 0.0 | 72.8 | 27.2 | 0.23 | 1.99 | 2.1 | 1 |
| GB | 194 | BSP205A | 205A | 41.68105 | -71.39283 | 8/14/03 | 81403 | 3.3 | 0.0 | 98.2 | 1.8 | 0.05 | 0.21 | 0.3 | 0 |
| UB | 195 | BSP207 | 207 | 41.68534 | -71.36276 | 7/2/03 | 70203 | 6.3 | 41.3 | 29.6 | 29.1 | 0.53 | 4.84 | 5.3 | 0 |
| UB | 196 | BSP208 | 208 | 41.68560 | -71.35286 | 7/2/03 | 70203 | 7.5 | 37.7 | 22.5 | 39.8 | 0.52 | 4.83 | 5.0 | 0 |
| UB | 197 | BSP209 | 209 | 41.68568 | -71.34357 | 7/2/03 | 70203 | 8.7 | 20.2 | 27.8 | 51.9 | 0.37 | 3.72 | 4.5 | 0 |
| UB | 198 | BSP210 | 210 | 41.68565 | -71.33348 | 7/2/03 | 70203 | 7.5 | 31.5 | 22.4 | 46.0 | 0.45 | 4.22 | 4.3 | 0 |
| UB | 199 | BSP211 | 211 | 41.68568 | -71.32384 | 7/2/03 | 70203 | 7.5 | 7.4 | 68.3 | 24.4 | 0.13 | 1.08 | 2.3 | 0 |
| UB | 200 | BSP212 | 212 | 41.68571 | -71.31405 | 7/2/03 | 70203 | 15.1 | 9.5 | 25.7 | 64.8 | 0.25 | 2.66 | 3.3 | 0 |
| UB | 201 | BSP213 | 213 | 41.68500 | -71.30511 | 6/25/03 | 62503 | 7.7 | 0.0 | 39.2 | 60.8 | 0.29 | 3.86 | 3.8 | 0 |
| UB | 202 | BSP214 | 214 | 41.68567 | -71.29730 | 6/25/03 | 62503 | 3.5 | 0.0 | 98.7 | 1.3 | 0.05 | 0.23 | 0.4 | 0 |
| GB | 203 | BSP215 | 215 | 41.67855 | -71.44017 | 8/14/03 | 81403 | 4.6 | 7.0 | 37.3 | 55.7 | 0.48 | 4.55 | 6.9 | 0 |
| GB | 204 | BSP216 | 216 | 41.67807 | -71.43045 | 8/14/03 | 81403 | 5.4 | 0.0 | 27.2 | 72.8 | 0.30 | 2.89 | 3.3 | 0 |
| GB | 205 | BSP217 | 217 | 41.67843 | -71.42020 | 8/14/03 | 81403 | 5.8 | 0.0 | 30.0 | 70.0 | 0.34 | 3.48 | 3.8 | 0 |
| GB | 206 | BSP218 | 218 | 41.67770 | -71.41105 | 8/14/03 | 81403 | 4.7 | 0.0 | 97.0 | 3.0 | 0.06 | 0.26 | 0.3 | 0 |
| GB | 207 | BSP219 | 219 | 41.67847 | -71.40102 | 8/14/03 | 81403 | 3.9 | 0.0 | 99.7 | 0.3 | 0.04 | 0.16 | 0.3 | 0 |
| GB | 208 | BSP220 | 220 | 41.67770 | -71.39188 | 8/14/03 | 81403 | 4.3 | 0.0 | 96.8 | 3.2 | 0.07 | 0.48 | 0.8 | 0 |
| UB | 209 | BSP221 | 221 | 41.67836 | -71.37263 | 7/29/03 | 72903 | 5.4 | 0.0 | 91.4 | 8.6 | 0.12 | 0.88 | 0.9 | 0 |
| UB | 210 | BSP222 | 222 | 41.67838 | -71.36320 | 7/29/03 | 72903 | 7.9 | 25.5 | 69.7 | 4.8 | 0.07 | 0.81 | 0.7 | 1 |
| UB | 211 | BSP223 | 223 | 41.67832 | -71.35346 | 7/29/03 | 72903 | 8.5 | 15.2 | 66.2 | 18.7 | 0.16 | 1.29 | 1.5 | 1 |
| UB | 212 | BSP224 | 224 | 41.67843 | -71.34376 | 7/29/03 | 72903 | 10.1 | 16.8 | 26.9 | 56.3 | 0.40 | 3.75 | 4.5 | 0 |
| UB | 213 | BSP225 | 225 | 41.67831 | -71.33433 | 7/29/03 | 72903 | 7.8 | 7.6 | 26.4 | 66.0 | 0.35 | 3.26 | 3.7 | 0 |
| UB | 214 | BSP226 | 226 | 41.67818 | -71.32492 | 7/29/03 | 72903 | 7.8 | 7.8 | 20.4 | 71.8 | 0.32 | 3.46 | 3.7 | 1 |
| UB | 215 | BSP227 | 227 | 41.67825 | -71.31470 | 7/16/03 | 71603 | 10.0 | 6.1 | 19.1 | 74.8 | 0.32 | 3.40 | 4.3 | 0 |
| UB | 216 | BSP228 | 228 | 41.67945 | -71.30535 | 7/16/03 | 71603 | 6.7 | 6.2 | 47.0 | 46.8 | 0.26 | 2.81 | 3.1 | 0 |
| EP | 217 | BSP229 | 229 | 41.67862 | -71.28563 | 7/16/03 | 71603 | 5.0 | 0.9 | 9.5 | 89.6 | 0.40 | 3.59 | 4.6 | 1 |
| GB | 218 | BSP230 | 230 | 41.67117 | -71.44025 | 8/14/03 | 81403 | 2.3 | 0.0 | 98.5 | 1.5 | 0.05 | 0.27 | 0.5 | 0 |
| GB | 219 | BSP231 | 231 | 41.67102 | -71.43082 | 8/14/03 | 81403 | 4.7 | 0.0 | 34.4 | 65.6 | 0.34 | 3.20 | 3.4 | 1 |
| GB | 220 | BSP232 | 232 | 41.67112 | -71.42100 | 8/14/03 | 81403 | 4.3 | 0.0 | 81.3 | 18.7 | 0.11 | 0.64 | 1.1 | 0 |
| GB | 221 | BSP233 | 233 | 41.67115 | -71.41147 | 8/14/03 | 81403 | 5.1 | 0.0 | 46.6 | 53.4 | 0.24 | 2.37 | 2.9 | 1 |
| GB | 222 | BSP234 | 234 | 41.67117 | -71.40148 | 8/14/03 | 81403 | 4.8 | 0.0 | 95.9 | 4.1 | 0.06 | 0.30 | 0.4 | 0 |
| GB | 223 | BSP235 | 235 | 41.67125 | -71.39150 | 8/14/03 | 81403 | 6.5 | 0.0 | 95.2 | 4.8 | 0.07 | 0.85 | 0.8 | 0 |
| UB | 224 | BSP236 | 236 | 41.67063 | -71.37259 | 7/29/03 | 72903 | 5.8 | 25.3 | 45.0 | 29.6 | 0.33 | 4.38 | 3.5 | 0 |
| UB | 225 | BSP237 | 237 | 41.67113 | -71.36274 | 7/29/03 | 72903 | 14.3 | 19.2 | 74.6 | 6.1 | 0.07 | 0.77 | 0.8 | 0 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| UB | 226 | BSP238 | 238 | 41.67121 | -71.35317 | 7/29/03 | 72903 | 11.0 | 27.0 | 4.4 | 68.6 | 0.58 | 5.02 | 5.7 | 0 |
| UB | 227 | BSP239 | 239 | 41.67112 | -71.34346 | 7/29/03 | 72903 | 8.8 | 7.5 | 48.7 | 43.7 | 0.30 | 2.51 | 3.1 | 0 |
| UB | 228 | BSP240 | 240 | 41.67104 | -71.33373 | 7/29/03 | 72903 | 7.9 | 17.1 | 8.6 | 74.3 | 0.39 | 3.67 | 4.2 | 0 |
| UB | 229 | BSP241 | 241 | 41.67109 | -71.32407 | 7/29/03 | 72903 | 8.3 | 21.6 | 12.4 | 66.0 | 0.39 | 4.00 | 5.0 | 0 |
| UB | 230 | BSP242 | 242 | 41.67110 | -71.31438 | 7/29/03 | 72903 | 11.2 | 15.2 | 6.2 | 78.6 | 0.35 | 3.17 | 4.7 | 0 |
| EP | 231 | BSP243 | 243 | 41.67132 | -71.28507 | 7/16/03 | 71603 | 16.3 | 7.0 | 24.6 | 68.4 | 0.44 | 3.57 | 4.4 | 0 |
| GB | 232 | BSP244 | 244 | 41.66602 | -71.44367 | 8/14/03 | 81403 | 5.2 | 0.0 | 53.0 | 47.0 | 0.46 | 4.62 | 4.5 | 1 |
| GB | 233 | BSP245 | 245 | 41.66490 | -71.41182 | 8/14/03 | 81403 | 2.5 | 0.0 | 98.6 | 1.4 | 0.04 | 0.17 | 0.3 | 0 |
| GB | 234 | BSP246 | 246 | 41.66385 | -71.40160 | 8/14/03 | 81403 | 3.2 | 2.7 | 96.1 | 1.3 | 0.04 | 0.22 | 0.3 | 0 |
| WP | 235 | BSP247 | 247 | 41.66367 | -71.39195 | 8/14/03 | 81403 | 5.2 | 0.0 | 95.8 | 4.2 | 0.07 | 0.41 | 0.6 | 1 |
| WP | 236 | BSP248 | 248 | 41.66378 | -71.38180 | 8/14/03 | 81403 | 11.1 | 1.4 | 91.7 | 6.9 | 0.06 | 0.46 | 0.6 | 0 |
| WP | 237 | BSP249 | 249 | 41.66400 | -71.37465 | 8/13/03 | 81303 | 18.6 | 0.0 | 94.0 | 6.0 | 0.14 | 1.24 | 0.9 | 1 |
| WP | 238 | BSP250 | 250 | 41.66428 | -71.36348 | 7/30/03 | 73003 | 6.7 | 45.7 | 29.3 | 25.0 | 0.41 | 3.63 | 3.2 | 0 |
| WP | 239 | BSP251 | 251 | 41.66373 | -71.35374 | 7/30/03 | 73003 | 7.1 | 53.8 | 30.1 | 16.1 | 0.37 | 3.55 | 4.0 | 0 |
| EP | 240 | BSP252 | 252 | 41.66396 | -71.34313 | 7/29/03 | 72903 | 5.0 | 46.0 | 51.3 | 2.8 | 0.10 | 0.96 | 0.9 | 0 |
| EP | 241 | BSP253 | 253 | 41.66374 | -71.33369 | 7/29/03 | 72903 | 8.0 | 9.2 | 25.4 | 65.4 | 0.32 | 3.28 | 3.7 | 1 |
| EP | 242 | BSP254 | 254 | 41.66391 | -71.32403 | 7/29/03 | 72903 | 8.4 | 28.2 | 9.4 | 62.4 | 0.42 | 3.99 | 4.9 | 1 |
| EP | 243 | BSP255 | 255 | 41.66385 | -71.31438 | 7/29/03 | 72903 | 11.6 | 6.1 | 20.0 | 73.9 | 0.33 | 3.66 | 3.6 | 0 |
| EP | 244 | BSP256 | 256 | 41.66381 | -71.30572 | 7/29/03 | 72903 | 4.4 | 43.9 | 54.2 | 1.9 | 0.08 | 0.87 | 0.8 | 0 |
| EP | 245 | BSP257 | 257 | 41.66373 | -71.28545 | 7/16/03 | 71603 | 6.8 | 5.1 | 7.0 | 87.9 | 0.28 | 3.69 | 4.4 | 0 |
| EP | 246 | BSP258 | 258 | 41.66357 | -71.27652 | 7/16/03 | 71603 | 5.9 | 34.0 | 41.2 | 24.8 | 0.16 | 2.00 | 2.6 | 0 |
| WP | 247 | BSP259 | 259 | 41.65450 | -71.42283 | 8/14/03 | 81403 | 2.5 | 0.0 | 35.8 | 64.2 | 0.27 | 3.36 | 3.3 | 1 |
| WP | 248 | BSP260 | 260 | 41.65410 | -71.41215 | 8/14/03 | 81403 | 2.6 | 0.0 | 79.6 | 20.4 | 0.09 | 0.55 | 0.9 | 0 |
| WP | 249 | BSP261 | 261 | 41.65687 | -71.40148 | 8/14/03 | 81403 | 4.0 | 3.7 | 93.0 | 3.3 | 0.05 | 0.38 | 0.4 | 0 |
| WP | 250 | BSP262 | 262 | 41.65680 | -71.39150 | 8/14/03 | 81403 | 5.3 | 0.9 | 95.4 | 3.8 | 0.05 | 0.60 | 0.5 | 0 |
| WP | 251 | BSP263 | 263 | 41.65662 | -71.38190 | 8/14/03 | 81403 | 6.8 | 0.0 | 84.7 | 15.3 | 0.07 | 0.89 | 3.2 | 0 |
| WP | 252 | BSP264 | 264 | 41.65668 | -71.37280 | 8/13/03 | 81303 | 6.1 | 0.0 | 97.8 | 2.2 | 0.05 | 0.76 | 0.4 | 0 |
| WP | 253 | BSP266 | 266 | 41.65586 | -71.35282 | 7/30/03 | 73003 | 6.6 | 11.6 | 63.3 | 25.0 | 0.10 | 1.24 | 0.6 | 0 |
| EP | 254 | BSP268 | 268 | 41.65667 | -71.33398 | 7/29/03 | 72903 | 8.3 | 2.8 | 34.3 | 62.9 | 0.41 | 3.46 | 4.4 | 1 |
| EP | 255 | BSP269 | 269 | 41.65661 | -71.32437 | 7/29/03 | 72903 | 8.5 | 6.7 | 8.1 | 85.2 | 0.39 | 3.59 | 4.2 | 0 |
| EP | 256 | BSP270 | 270 | 41.65664 | -71.31449 | 7/29/03 | 72903 | 10.7 | 0.2 | 19.7 | 80.2 | 0.34 | 3.03 | 3.5 | 0 |
| EP | 257 | BSP271 | 271 | 41.65640 | -71.30543 | 7/29/03 | 72903 | 4.3 | 18.0 | 80.1 | 1.9 | 0.06 | 1.05 | 0.6 | 0 |
| EP | 258 | BSP272 | 272 | 41.65665 | -71.29525 | 7/29/03 | 72903 | 6.9 | 14.3 | 32.7 | 53.0 | 0.26 | 2.49 | 2.6 | 0 |
| EP | 259 | BSP273 | 273 | 41.65663 | -71.28586 | 7/29/03 | 72903 | 8.8 | 22.8 | 15.3 | 61.9 | 0.32 | 2.96 | 3.8 | 1 |
| EP | 260 | BSP274 | 274 | 41.65683 | -71.27591 | 7/29/03 | 72903 | 8.2 | 6.1 | 35.7 | 58.2 | 0.24 | 2.69 | 3.0 | 0 |
| WP | 261 | BSP275 | 275 | 41.64950 | -71.40178 | 8/14/03 | 81403 | 4.3 | 0.0 | 89.1 | 10.9 | 0.11 | 0.73 | 0.9 | 0 |
| WP | 262 | BSP276 | 276 | 41.64947 | -71.39197 | 8/14/03 | 81403 | 7.8 | 0.0 | 90.2 | 9.8 | 0.08 | 0.68 | 0.9 | 1 |
| WP | 263 | BSP277 | 277 | 41.64843 | -71.38073 | 8/14/03 | 81403 | 8.9 | 21.5 | 71.7 | 6.8 | 0.05 | 0.82 | 1.0 | 0 |
| WP | 264 | BSP278 | 278 | 41.64928 | -71.37292 | 8/13/03 | 81303 | 13.9 | 0.0 | 71.9 | 28.1 | 0.20 | 3.17 | 1.5 | 0 |
| WP | 265 | BSP279 | 279 | 41.64980 | -71.36308 | 8/13/03 | 81303 | 6.4 | 23.2 | 63.5 | 13.3 | 0.13 | 2.03 | 1.7 | 0 |
| WP | 266 | BSP280 | 280 | 41.65003 | -71.35550 | 8/13/03 | 81303 | 3.8 | 0.0 | 98.2 | 1.8 | 0.05 | 0.43 | 0.6 | 0 |
| EP | 267 | BSP282 | 282 | 41.64935 | -71.32400 | 7/29/03 | 72903 | 8.5 | 7.6 | 14.0 | 78.4 | 0.33 | 3.56 | 4.1 | 0 |
| EP | 268 | BSP283 | 283 | 41.64925 | -71.31440 | 7/29/03 | 72903 | 10.6 | 7.6 | 8.4 | 84.0 | 0.30 | 2.81 | 3.5 | 1 |
| EP | 269 | BSP284 | 284 | 41.64931 | -71.30478 | 7/29/03 | 72903 | 12.4 | 3.7 | 26.4 | 69.8 | 0.30 | 2.81 | 3.3 | 0 |
| EP | 270 | BSP285 | 285 | 41.64939 | -71.29512 | 7/29/03 | 72903 | 10.0 | 33.1 | 27.0 | 39.9 | 0.23 | 2.69 | 2.6 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofomat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|-------------|-------|--------|------|------|------|------|---------|------|
| EP | 271 | BSP286 | 286 | 41.64922 | -71.28569 | 7/29/03 | 72903 | 4.0 | 31.0 | 67.3 | 1.8 | 0.06 | 0.61 | 0.6 | 1 |
| EP | 272 | BSP287 | 287 | 41.64944 | -71.27572 | 7/29/03 | 72903 | 7.2 | 52.7 | 15.6 | 31.7 | 0.40 | 3.66 | 4.7 | 1 |
| WP | 273 | BSP288 | 288 | 41.64193 | -71.40108 | 8/13/03 | 81303 | 6.1 | 0.0 | 41.9 | 58.1 | 0.24 | 2.08 | 2.5 | 0 |
| WP | 274 | BSP289 | 289 | 41.64212 | -71.39158 | 8/13/03 | 81303 | 9.8 | 0.0 | 31.5 | 68.5 | 0.36 | 3.15 | 4.2 | 0 |
| WP | 275 | BSP290 | 290 | 41.64162 | -71.38167 | 8/13/03 | 81303 | 9.5 | 0.0 | 30.9 | 69.1 | 0.42 | 4.23 | 4.7 | 0 |
| WP | 276 | BSP291 | 291 | 41.64202 | -71.37213 | 8/13/03 | 81303 | 9.1 | 0.0 | 61.9 | 38.1 | 0.15 | 4.46 | 2.1 | 0 |
| WP | 277 | BSP292 | 292 | 41.64223 | -71.36273 | 8/13/03 | 81303 | 7.7 | 0.0 | 60.0 | 40.0 | 0.18 | 2.09 | 2.3 | 0 |
| WP | 278 | BSP293 | 293 | 41.64242 | -71.35402 | 8/13/03 | 81303 | 5.5 | 0.0 | 96.0 | 4.0 | 0.06 | 0.42 | 0.6 | 0 |
| EP | 279 | BSP294 | 294 | 41.64146 | -71.33845 | 7/30/03 | 73003 | 5.4 | 2.7 | 41.8 | 55.5 | 0.58 | 4.79 | 5.5 | 0 |
| EP | 280 | BSP295 | 295 | 41.64183 | -71.33223 | 7/30/03 | 73003 | 6.0 | 4.1 | 94.4 | 1.5 | 0.06 | 0.35 | 0.5 | 0 |
| EP | 281 | BSP296 | 296 | 41.64199 | -71.32352 | 7/30/03 | 73003 | 8.2 | 6.2 | 16.3 | 77.5 | 0.29 | 3.61 | 3.2 | 0 |
| EP | 282 | BSP297 | 297 | 41.64225 | -71.31417 | 7/30/03 | 73003 | 10.5 | 3.2 | 26.1 | 70.6 | 0.32 | 3.12 | 3.6 | 0 |
| EP | 283 | BSP298 | 298 | 41.64236 | -71.30458 | 7/30/03 | 73003 | 14.3 | 0.4 | 22.7 | 77.0 | 0.26 | 2.59 | 3.2 | 0 |
| EP | 284 | BSP299 | 299 | 41.64228 | -71.29449 | 7/30/03 | 73003 | 9.4 | 4.0 | 46.9 | 49.1 | 0.24 | 2.49 | 2.2 | 0 |
| EP | 285 | BSP300 | 300 | 41.64090 | -71.28844 | 7/30/03 | 73003 | 4.3 | 20.4 | 78.7 | 0.9 | 0.05 | 0.37 | 0.5 | 0 |
| EP | 286 | BSP301 | 301 | 41.64220 | -71.27344 | 7/30/03 | 73003 | 4.5 | 21.0 | 58.0 | 21.0 | 0.20 | 1.93 | 2.1 | 0 |
| EP | 287 | BSP302 | 302 | 41.64194 | -71.26579 | 7/30/03 | 73003 | 9.0 | 16.6 | 43.3 | 40.1 | 0.24 | 2.49 | 3.1 | 1 |
| WP | 288 | BSP303 | 303 | 41.63482 | -71.40158 | 8/13/03 | 81303 | 4.9 | 0.0 | 71.3 | 28.7 | 0.08 | 0.90 | 1.5 | 0 |
| WP | 289 | BSP304 | 304 | 41.63477 | -71.39190 | 8/13/03 | 81303 | 10.3 | 0.0 | 25.9 | 74.1 | 0.11 | 2.99 | 3.5 | 1 |
| WP | 290 | BSP305 | 305 | 41.63475 | -71.38245 | 8/13/03 | 81303 | 9.2 | 0.0 | 15.4 | 84.6 | 0.42 | 4.52 | 5.2 | 0 |
| WP | 291 | BSP306 | 306 | 41.63497 | -71.37278 | 8/13/03 | 81303 | 7.2 | 0.0 | 25.8 | 74.2 | 0.37 | 4.58 | 4.4 | 0 |
| WP | 292 | BSP307 | 307 | 41.63467 | -71.36323 | 8/13/03 | 81303 | 8.9 | 0.0 | 42.7 | 57.3 | 0.22 | 2.64 | 3.8 | 1 |
| WP | 293 | BSP308 | 308 | 41.63510 | -71.35327 | 8/13/03 | 81303 | 6.8 | 0.0 | 96.3 | 3.7 | 0.06 | 0.38 | 0.5 | 0 |
| EP | 294 | BSP309 | 309 | 41.63548 | -71.33183 | 7/30/03 | 73003 | 5.1 | 48.5 | 28.1 | 23.4 | 0.33 | 3.78 | 4.5 | 1 |
| EP | 295 | BSP310 | 310 | 41.63481 | -71.32473 | 7/30/03 | 73003 | 6.6 | 22.4 | 73.5 | 4.1 | 0.07 | 0.61 | 0.7 | 0 |
| EP | 296 | BSP311 | 311 | 41.63489 | -71.31523 | 7/30/03 | 73003 | 7.3 | 15.2 | 66.6 | 18.2 | 0.10 | 1.07 | 1.0 | 0 |
| EP | 297 | BSP312 | 312 | 41.63531 | -71.30462 | 7/30/03 | 73003 | 14.8 | 4.6 | 26.4 | 69.0 | 0.20 | 3.76 | 3.1 | 1 |
| EP | 298 | BSP313 | 313 | 41.63493 | -71.29566 | 7/30/03 | 73003 | 9.7 | 13.5 | 15.1 | 71.5 | 0.36 | 3.59 | 4.8 | 0 |
| EP | 299 | BSP314 | 314 | 41.63479 | -71.28575 | 7/30/03 | 73003 | 4.1 | 35.2 | 62.2 | 2.5 | 0.11 | 1.02 | 0.9 | 0 |
| EP | 300 | BSP315 | 315 | 41.63477 | -71.27628 | 7/30/03 | 73003 | 5.6 | 1.8 | 70.1 | 28.1 | 0.16 | 2.16 | 2.1 | 0 |
| EP | 301 | BSP316 | 316 | 41.63369 | -71.26762 | 7/30/03 | 73003 | 15.9 | 1.9 | 66.1 | 32.0 | 0.32 | 5.28 | 2.5 | 0 |
| WP | 302 | BSP317 | 317 | 41.62747 | -71.40142 | 8/13/03 | 81303 | 2.6 | 0.0 | 97.8 | 2.2 | 0.05 | 0.51 | 0.6 | 0 |
| WP | 303 | BSP318 | 318 | 41.62768 | -71.39127 | 8/13/03 | 81303 | 9.3 | 0.0 | 17.1 | 82.9 | 0.34 | 3.80 | 4.2 | 0 |
| WP | 304 | BSP319 | 319 | 41.62773 | -71.38180 | 8/13/03 | 81303 | 9.1 | 0.0 | 33.3 | 66.7 | 0.20 | 2.22 | 2.6 | 0 |
| WP | 305 | BSP320 | 320 | 41.62795 | -71.37213 | 8/13/03 | 81303 | 8.5 | 0.0 | 43.5 | 56.5 | 0.19 | 2.05 | 2.6 | 0 |
| WP | 306 | BSP321 | 321 | 41.62762 | -71.36275 | 8/13/03 | 81303 | 8.7 | 0.0 | 44.0 | 56.0 | 0.22 | 2.34 | 2.4 | 0 |
| WP | 307 | BSP322 | 322 | 41.62777 | -71.35267 | 8/13/03 | 81303 | 9.5 | 0.0 | 38.0 | 62.0 | 0.22 | 2.40 | 2.7 | 0 |
| WP | 308 | BSP323 | 323 | 41.62772 | -71.34310 | 8/13/03 | 81303 | 7.5 | 0.0 | 83.5 | 16.5 | 0.07 | 0.85 | 0.9 | 1 |
| WP | 309 | BSP324 | 324 | 41.62782 | -71.33363 | 8/13/03 | 81303 | 3.0 | 0.0 | 99.0 | 1.0 | 0.04 | 0.24 | 0.4 | 0 |
| EP | 310 | BSP326 | 326 | 41.62770 | -71.30431 | 7/30/03 | 73003 | 9.3 | 34.0 | 3.6 | 62.4 | 0.36 | 3.49 | 5.0 | 0 |
| EP | 311 | BSP327 | 327 | 41.62823 | -71.29517 | 7/30/03 | 73003 | 18.6 | 1.1 | 28.2 | 70.7 | 0.24 | 2.66 | 3.2 | 0 |
| EP | 312 | BSP328 | 328 | 41.62739 | -71.28557 | 7/30/03 | 73003 | 11.7 | 9.0 | 26.7 | 64.2 | 0.24 | 3.00 | 3.3 | 0 |
| EP | 313 | BSP329 | 329 | 41.62777 | -71.27647 | 7/30/03 | 73003 | 20.8 | 12.9 | 27.0 | 60.1 | 0.35 | 4.33 | 4.3 | 0 |
| EP | 314 | BSP330 | 330 | 41.62750 | -71.26625 | 7/30/03 | 73003 | 5.9 | 28.3 | 58.6 | 13.1 | 0.24 | 4.58 | 4.1 | 0 |
| WP | 315 | BSP331 | 331 | 41.62057 | -71.40215 | 8/13/03 | 81303 | 3.2 | 0.0 | 93.4 | 6.6 | 0.05 | 0.56 | 0.5 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofmat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|------------|-------|--------|------|------|------|------|---------|------|
| WP | 316 | BSP332 | 332 | 41.62045 | -71.39243 | 8/13/03 | 81303 | 8.0 | 0.0 | 34.5 | 65.5 | 0.36 | 3.15 | 3.4 | 0 |
| WP | 317 | BSP333 | 333 | 41.62060 | -71.38190 | 8/13/03 | 81303 | 9.2 | 0.0 | 29.2 | 70.8 | 0.28 | 2.42 | 2.8 | 1 |
| WP | 318 | BSP334 | 334 | 41.62050 | -71.37317 | 8/13/03 | 81303 | 8.3 | 0.0 | 41.8 | 58.2 | 0.22 | 2.14 | 1.7 | 0 |
| WP | 319 | BSP335 | 335 | 41.62045 | -71.36345 | 8/13/03 | 81303 | 8.4 | 0.0 | 24.4 | 75.6 | 0.25 | 2.36 | 3.0 | 0 |
| WP | 320 | BSP336 | 336 | 41.62075 | -71.35372 | 8/13/03 | 81303 | 8.8 | 0.0 | 32.4 | 67.6 | 0.30 | 3.77 | 3.2 | 0 |
| WP | 321 | BSP337 | 337 | 41.62082 | -71.34308 | 8/13/03 | 81303 | 8.2 | 0.0 | 24.9 | 75.1 | 0.29 | 2.81 | 3.2 | 0 |
| WP | 322 | BSP338 | 338 | 41.62010 | -71.33342 | 8/13/03 | 81303 | 7.8 | 0.0 | 26.3 | 73.7 | 0.31 | 3.02 | 2.9 | 0 |
| WP | 323 | BSP339 | 339 | 41.61948 | -71.32833 | 8/13/03 | 81303 | 6.4 | 0.0 | 44.8 | 55.2 | 0.43 | 4.07 | 4.8 | 0 |
| EP | 324 | BSP340 | 340 | 41.62046 | -71.30284 | 7/30/03 | 73003 | 15.9 | 6.0 | 32.1 | 61.9 | 0.24 | 2.37 | 3.0 | 0 |
| EP | 325 | BSP341 | 341 | 41.62176 | -71.29513 | 7/30/03 | 73003 | 18.4 | 27.1 | 64.0 | 8.9 | 0.17 | 2.94 | 2.7 | 1 |
| EP | 326 | BSP342 | 342 | 41.62048 | -71.28578 | 7/30/03 | 73003 | 15.4 | 16.7 | 19.8 | 63.5 | 0.34 | 3.73 | 3.8 | 1 |
| EP | 327 | BSP343 | 343 | 41.61998 | -71.27561 | 7/30/03 | 73003 | 5.5 | 21.3 | 70.4 | 8.3 | 0.12 | 1.47 | 0.9 | 0 |
| WP | 328 | LB01 | LB01 | 41.61726 | -71.39597 | 6/21/06 | 62106 | 7.6 | 21.3 | 45.4 | 33.3 | 0.17 | 1.86 | 2.2 | 1 |
| WP | 329 | LB02 | LB02 | 41.61690 | -71.37659 | 6/21/06 | 62106 | 9.0 | 2.5 | 30.1 | 67.4 | 0.22 | 2.45 | 3.2 | 1 |
| WP | 330 | LB03 | LB03 | 41.61621 | -71.35793 | 6/21/06 | 62106 | 9.5 | 14.4 | 28.2 | 57.3 | 0.24 | 3.00 | 3.2 | 1 |
| WP | 331 | LB04 | LB04 | 41.61461 | -71.33701 | 6/21/06 | 62106 | 8.7 | 3.5 | 27.0 | 69.6 | 0.21 | 2.47 | 4.3 | 1 |
| EP | 332 | LB05 | LB05 | 41.61711 | -71.30307 | 7/17/06 | 62106 | 15.8 | 11.4 | 27.9 | 60.7 | 0.29 | 3.04 | 4.4 | 1 |
| EP | 333 | LB05A | LB05A | 41.61792 | -71.27837 | 7/17/06 | 71706 | 6.6 | 23.4 | 38.3 | 38.3 | 0.34 | 5.28 | 4.5 | 1 |
| WP | 334 | LB06 | LB06 | 41.60233 | -71.38600 | 6/21/06 | 62106 | 10.0 | 2.7 | 33.4 | 63.8 | 0.19 | 2.14 | 3.6 | 1 |
| WP | 335 | LB07 | LB07 | 41.60074 | -71.34839 | 6/21/06 | 62106 | 10.4 | 0.0 | 15.6 | 84.4 | 0.24 | 2.42 | 3.3 | 1 |
| EP | 336 | LB08 | LB08 | 41.60321 | -71.28721 | 7/17/06 | 71706 | 14.7 | 12.6 | 44.9 | 42.5 | 0.25 | 3.05 | 3.3 | 1 |
| WP | 337 | LB09 | LB09 | 41.58759 | -71.39684 | 6/21/06 | 62106 | 11.6 | 6.0 | 28.5 | 65.5 | 0.19 | 2.14 | 2.7 | 1 |
| WP | 338 | LB10 | LB10 | 41.58715 | -71.37711 | 6/21/06 | 62106 | 9.3 | 4.5 | 20.3 | 75.3 | 0.22 | 2.35 | 2.9 | 1 |
| WP | 339 | LB11 | LB11 | 41.58665 | -71.35780 | 6/21/06 | 62106 | 9.4 | 4.2 | 26.5 | 69.4 | 0.20 | 2.04 | 2.7 | 1 |
| WP | 340 | LB12 | LB12 | 41.57329 | -71.42612 | 6/21/06 | 62106 | 6.1 | 2.9 | 54.9 | 42.2 | 0.11 | 1.15 | 1.5 | 1 |
| WP | 341 | LB13 | LB13 | 41.57356 | -71.39743 | 6/21/06 | 62106 | 9.2 | 2.1 | 32.5 | 65.4 | 0.19 | 2.00 | 2.8 | 1 |
| EP | 342 | LB14 | LB14 | 41.57490 | -71.34655 | 7/17/06 | 71706 | 10.6 | 1.4 | 19.4 | 79.1 | 0.17 | 2.05 | 2.8 | 1 |
| EP | 343 | LB15 | LB15 | 41.58314 | -71.30344 | 7/17/06 | 71706 | 14.5 | 4.3 | 64.0 | 31.7 | 0.17 | 1.70 | 1.9 | 1 |
| WP | 344 | LB16 | LB16 | 41.56258 | -71.42964 | 6/21/06 | 62106 | 6.4 | 0.4 | 41.8 | 57.8 | 0.15 | 1.56 | 2.2 | 1 |
| WP | 345 | LB17 | LB17 | 41.55910 | -71.40652 | 6/21/06 | 62106 | 9.4 | 0.7 | 42.2 | 57.2 | 0.14 | 1.53 | 2.0 | 1 |
| EP | 346 | LB18 | LB18 | 41.56001 | -71.34731 | 7/17/06 | 71706 | 13.2 | 0.0 | 46.2 | 53.8 | 0.15 | 1.47 | 2.1 | 1 |
| EP | 347 | LB19 | LB19 | 41.55622 | -71.31531 | 7/17/06 | 71706 | 16.5 | 0.1 | 38.3 | 61.5 | 0.24 | 2.36 | 3.1 | 1 |
| WP | 348 | LB20 | LB20 | 41.54464 | -71.41530 | 6/21/06 | 62106 | 7.8 | 0.5 | 70.2 | 29.3 | 0.08 | 1.12 | 1.3 | 1 |
| WP | 349 | LB21 | LB21 | 41.54384 | -71.39540 | 6/21/06 | 62106 | 13.3 | 8.6 | 63.9 | 27.5 | 0.10 | 1.07 | 1.6 | 1 |
| EP | 350 | LB22 | LB22 | 41.54665 | -71.34882 | 7/17/06 | 71706 | 18.2 | 0.4 | 69.8 | 29.9 | 0.13 | 1.09 | 1.6 | 1 |
| EP | 351 | LB23 | LB23 | 41.54507 | -71.31772 | 7/17/06 | 71706 | 17.2 | 0.0 | 37.0 | 63.0 | 0.23 | 2.23 | 3.2 | 1 |
| WP | 352 | LB24 | LB24 | 41.53072 | -71.39954 | 6/21/06 | 62106 | 8.5 | 42.6 | 37.7 | 19.7 | 0.17 | 4.29 | 2.6 | 1 |
| EP | 353 | LB25 | LB25 | 41.53156 | -71.36057 | 7/17/06 | 71706 | 12.9 | 2.2 | 74.5 | 23.3 | 0.11 | 1.51 | 1.9 | 1 |
| EP | 354 | LB26 | LB26 | 41.53336 | -71.32649 | 7/17/06 | 71706 | 18.9 | 24.0 | 53.8 | 22.1 | 0.15 | 1.61 | 1.9 | 1 |
| WP | 355 | LB27 | LB27 | 41.51554 | -71.41048 | 6/21/06 | 62106 | 15.3 | 0.7 | 62.0 | 37.3 | 0.13 | 1.46 | 2.0 | 1 |
| EP | 356 | LB28 | LB28 | 41.51941 | -71.35953 | 7/17/06 | 71706 | 14.5 | 0.0 | 86.3 | 13.6 | 0.06 | 0.98 | 1.2 | 1 |
| WP | 357 | LB29 | LB29 | 41.50168 | -71.41578 | 6/21/06 | 62106 | 13.5 | 1.4 | 30.6 | 68.0 | 0.23 | 2.50 | 3.1 | 1 |
| EP | 358 | LB30 | LB30 | 41.50158 | -71.34304 | 7/17/06 | 71706 | 23.1 | 65.8 | 28.1 | 6.1 | 0.22 | 7.41 | 2.3 | 1 |
| WP | 359 | LB31 | LB31 | 41.48660 | -71.40863 | 6/21/06 | 62106 | 15.5 | 20.1 | 31.5 | 48.4 | 0.22 | 3.32 | 3.4 | 1 |
| EP | 360 | LB32 | LB32 | 41.48949 | -71.35789 | 7/17/06 | 71706 | 20.1 | 2.6 | 71.8 | 25.5 | 0.07 | 1.69 | 1.0 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenofmat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Chem |
|------|----------|-----------|-------|----------|-----------|----------------|------------|-------|--------|------|------|------|------|---------|------|
| WP | 361 | LB33 | LB33 | 41.46994 | -71.40903 | 6/21/06 | 62106 | 16.5 | 8.0 | 55.6 | 36.4 | 0.12 | 1.69 | 2.0 | 1 |
| EP | 362 | LB34 | LB34 | 41.48809 | -71.33678 | 7/17/06 | 71706 | 18.0 | 2.0 | 88.7 | 9.2 | 0.05 | 0.69 | 1.3 | 1 |
| WP | 363 | LB35 | LB35 | 41.45495 | -71.41670 | 6/21/06 | 62106 | 15.5 | 0.1 | 89.3 | 10.6 | 0.02 | 0.59 | 0.7 | 1 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenoformat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Hg |
|------|----------|-----------|-------|----------|-----------|----------------|--------------|-------|--------|------|------|------|------|---------|-------|
| SR | 1 | SR00 | SR00 | 41.87011 | -71.38142 | 7/28/05 | 72805 | 2.4 | 0.5 | 58.3 | 41.2 | 0.3 | 5.07 | 5.4 | 0.660 |
| SR | 2 | SR0 | SR0 | 41.86538 | -71.37922 | 7/28/05 | 72805 | 3.8 | 1.6 | 50.5 | 47.9 | 0.5 | 7.00 | 6.6 | 0.802 |
| SR | 3 | SR01 | SR01 | 41.86054 | -71.37794 | 7/28/05 | 72805 | 2.9 | 1.4 | 19.6 | 79.0 | 0.6 | 7.61 | 9.4 | 1.381 |
| SR | 8 | SR06 | SR06 | 41.84996 | -71.37282 | 7/28/05 | 72805 | 1.8 | 5.1 | 80.5 | 14.4 | 0.1 | 2.11 | 2.1 | 2.410 |
| SR | 9 | SR07 | SR07 | 41.84643 | -71.37708 | 7/28/05 | 72805 | 2.1 | 1.3 | 22.3 | 76.4 | 0.5 | 7.84 | 7.0 | 1.830 |
| SR | 11 | SR09 | SR09 | 41.84311 | -71.37707 | 7/28/05 | 72805 | 2.4 | 3.4 | 25.7 | 70.9 | 0.5 | 7.29 | 6.7 | 1.478 |
| SR | 14 | SR12 | SR12 | 41.83848 | -71.37254 | 7/28/05 | 72805 | 2.6 | 3.2 | 22.8 | 74.0 | 0.4 | 6.19 | 5.7 | 1.454 |
| SR | 15 | SR13 | SR13 | 41.83532 | -71.37831 | 7/28/05 | 72805 | 2.3 | 6.5 | 83.9 | 9.6 | 0.1 | 1.20 | 1.3 | 0.373 |
| SR | 16 | SR14 | SR14 | 41.83495 | -71.37259 | 7/28/05 | 72805 | 2.3 | 3.2 | 57.1 | 39.7 | 0.2 | 4.13 | 3.2 | 1.669 |
| SR | 20 | SR19 | SR19 | 41.82396 | -71.38209 | 7/28/05 | 72805 | 7.3 | 3.1 | 77.5 | 19.4 | 0.2 | 4.22 | 3.0 | 0.827 |
| SR | 28 | BSP25 | 25 | 41.81618 | -71.38923 | 9/30/03 | 93003 | 8.4 | 51.1 | 18.7 | 30.2 | 0.3 | 8.14 | 4.6 | 0.717 |
| PR | 29 | BSP26 | 26 | 41.81142 | -71.40045 | 9/30/03 | 93003 | 14.3 | 0.0 | 12.1 | 87.9 | 0.4 | 4.83 | 4.4 | 0.961 |
| PR | 32 | BSP30 | 30 | 41.80918 | -71.39340 | 9/30/03 | 93003 | 12.2 | 0.0 | 7.7 | 92.3 | 0.4 | 5.55 | 5.0 | 1.272 |
| PR | 40 | BSP40 | 40 | 41.79818 | -71.38182 | 9/30/03 | 93003 | 3.0 | 4.2 | 65.7 | 30.1 | 0.2 | 2.48 | 2.1 | 0.874 |
| PR | 45 | BSP49 | 49 | 41.78420 | -71.38347 | 7/15/03 | 71503 | 6.4 | 0.0 | 2.0 | 98.0 | 0.6 | 5.39 | 7.0 | 1.114 |
| PR | 49 | BSP54 | 54 | 41.78128 | -71.38270 | 7/15/03 | 71503 | 5.3 | 0.0 | 13.0 | 87.0 | 0.5 | 4.61 | 5.5 | 0.779 |
| PR | 55 | BSP60 | 60 | 41.77773 | -71.37325 | 7/15/03 | 71503 | 9.6 | 0.5 | 3.7 | 95.8 | 0.5 | 4.18 | 5.5 | 0.767 |
| PR | 57 | BSP62 | 62 | 41.77445 | -71.38765 | 7/15/03 | 71503 | 3.5 | 7.3 | 72.1 | 20.6 | 0.1 | 1.22 | 1.3 | 0.349 |
| PR | 58 | BSP63 | 63 | 41.77412 | -71.38280 | 7/15/03 | 71503 | 6.3 | 2.0 | 2.4 | 95.6 | 0.5 | 5.04 | 5.8 | 0.999 |
| PR | 59 | BSP64 | 64 | 41.77403 | -71.37805 | 7/15/03 | 71503 | 4.2 | 11.3 | 58.3 | 30.3 | 0.2 | 3.07 | 2.7 | 0.521 |
| PR | 69 | BSP74 | 74 | 41.76682 | -71.37295 | 7/15/03 | 71503 | 5.1 | 0.9 | 82.4 | 16.7 | 0.1 | 1.26 | 1.1 | 0.254 |
| PR | 72 | BSP77 | 77 | 41.76323 | -71.37797 | 7/15/03 | 71503 | 13.3 | 0.2 | 5.4 | 94.5 | 0.4 | 4.01 | 4.9 | 0.590 |
| PR | 77 | BSP82 | 82 | 41.75952 | -71.37838 | 7/10/03 | 71003 | 6.6 | 3.8 | 19.8 | 76.5 | 0.5 | 4.71 | 5.5 | 0.852 |
| PR | 79 | BSP84 | 84 | 41.75973 | -71.36820 | 7/10/03 | 71003 | 4.0 | 6.6 | 47.2 | 46.3 | 0.2 | 2.79 | 3.2 | 0.504 |
| PR | 85 | BSP90 | 90 | 41.75618 | -71.35428 | 7/15/03 | 71503 | 3.7 | 0.6 | 69.4 | 30.0 | 0.2 | 2.37 | 2.3 | 0.361 |
| PR | 90 | BSP95 | 95 | 41.75233 | -71.35688 | 7/10/03 | 71003 | 3.4 | 6.5 | 35.2 | 58.3 | 0.6 | 3.45 | 4.0 | 0.869 |
| PR | 94 | BSP99 | 99 | 41.74865 | -71.37310 | 7/10/03 | 71003 | 7.3 | 0.0 | 7.3 | 92.7 | 0.3 | 3.41 | 4.0 | 1.374 |
| PR | 104 | BSP109 | 109 | 41.74198 | -71.37712 | 7/10/03 | 71003 | 4.1 | 35.4 | 55.5 | 9.1 | 0.2 | 0.94 | 1.2 | 0.158 |
| PR | 105 | BSP110 | 110 | 41.74153 | -71.37352 | 7/10/03 | 71003 | 6.3 | 9.2 | 60.7 | 30.1 | 0.2 | 2.39 | 3.7 | 0.362 |
| PR | 120 | BSP126 | 126 | 41.73527 | -71.38405 | 7/8/03 | 70803 | 2.7 | 9.1 | 32.6 | 58.4 | 0.4 | 3.09 | 3.4 | 0.554 |
| PR | 123 | BSP129 | 129 | 41.73424 | -71.36814 | 7/8/03 | 70803 | 9.9 | 8.6 | 35.0 | 56.4 | 0.3 | 3.72 | 4.5 | 0.526 |
| PR | 126 | BSP132 | 132 | 41.73433 | -71.35425 | 7/8/03 | 70803 | 5.6 | 11.0 | 63.6 | 25.4 | 0.3 | 2.22 | 2.3 | 0.276 |
| PR | 128 | BSP134 | 134 | 41.73417 | -71.34404 | 7/8/03 | 70803 | 1.7 | 7.7 | 89.6 | 2.7 | 0.0 | 0.17 | 0.4 | 0.023 |
| PR | 133 | BSP139 | 139 | 41.73062 | -71.36364 | 7/8/03 | 70803 | 9.8 | 44.6 | 19.3 | 36.2 | 0.4 | 4.71 | 4.5 | 0.401 |
| PR | 139 | BSP145 | 145 | 41.72698 | -71.37343 | 7/8/03 | 70803 | 4.3 | 14.5 | 64.4 | 21.1 | 0.2 | 1.08 | 1.0 | 0.202 |
| PR | 147 | BSP153 | 153 | 41.72383 | -71.37287 | 7/2/03 | 70203 | 4.2 | 45.6 | 31.8 | 22.6 | 0.5 | 4.01 | 3.8 | 0.515 |
| PR | 150 | BSP156 | 156 | 41.72195 | -71.34338 | 7/2/03 | 70203 | 6.5 | 38.9 | 34.1 | 27.0 | 0.2 | 1.68 | 3.7 | 0.190 |
| UB | 158 | BSP164 | 164 | 41.71438 | -71.33362 | 7/2/03 | 70203 | 5.5 | 25.7 | 64.1 | 10.3 | 0.1 | 5.02 | 1.8 | 0.145 |
| UB | 164 | BSP170 | 170 | 41.70758 | -71.35352 | 7/2/03 | 70203 | 4.5 | 16.5 | 82.4 | 1.2 | 0.0 | 0.18 | 0.4 | 0.043 |
| UB | 170 | BSP176 | 176 | 41.70638 | -71.29543 | 6/25/03 | 62503 | 4.1 | 0.0 | 76.7 | 23.3 | 0.2 | 2.20 | 2.0 | 0.159 |
| UB | 173 | BSP180 | 180 | 41.70069 | -71.34321 | 7/2/03 | 70203 | 7.2 | 2.0 | 83.1 | 15.0 | 0.1 | 0.99 | 1.1 | 0.130 |
| UB | 181 | BSP193 | 193 | 41.69292 | -71.34322 | 7/2/03 | 70203 | 7.9 | 25.5 | 37.6 | 36.9 | 0.3 | 3.40 | 3.7 | 0.379 |
| UB | 184 | BSP196 | 196 | 41.69267 | -71.31485 | 7/2/03 | 70203 | 11.1 | 7.8 | 35.1 | 57.1 | 0.2 | 3.34 | 2.9 | 0.271 |
| GB | 187 | BSP199 | 199 | 41.68690 | -71.44505 | 8/14/03 | 81403 | 4.2 | 0.0 | 47.2 | 52.8 | 0.3 | 2.56 | 3.5 | 0.522 |
| GB | 192 | BSP204 | 204 | 41.68352 | -71.40105 | 8/14/03 | 81403 | 2.0 | 0.0 | 99.1 | 0.9 | 0.1 | 0.24 | 0.2 | 0.022 |

| Sample ID | #analyzed | Si | Al | Fe | Mn | Mg | Ca | Na | K | Ti | Cr | Cu | Ni | Pb | Sr | V | Zn |
|-----------|-----------|-------|------|------|-------|------|-------|------|------|-------|-----|-----|----|-----|-----|----|-----|
| SR00 | 1 | 19.91 | 4.53 | 4.33 | 0.052 | 1.37 | 1.14 | 5.22 | 1.62 | 0.368 | 237 | 390 | 52 | 288 | 208 | 71 | 674 |
| SR0 | 1 | 18.42 | 4.42 | 4.76 | 0.059 | 1.29 | 1.06 | 4.96 | 1.57 | 0.349 | 287 | 509 | 49 | 300 | 208 | 74 | 696 |
| SR01 | 1 | 18.30 | 4.52 | 4.11 | 0.041 | 1.23 | 0.85 | 3.92 | 1.38 | 0.307 | 300 | 587 | 48 | 314 | 144 | 55 | 626 |
| SR06 | 1 | 29.70 | 4.91 | 2.69 | 0.051 | 0.84 | 1.20 | 2.53 | 2.09 | 0.452 | 275 | 416 | 29 | 161 | 179 | 55 | 240 |
| SR07 | 1 | 20.59 | 5.19 | 4.27 | 0.046 | 1.22 | 0.98 | 3.42 | 1.59 | 0.362 | 427 | 876 | 65 | 427 | 174 | 68 | 775 |
| SR09 | 1 | 20.60 | 5.06 | 4.19 | 0.042 | 1.28 | 0.96 | 3.77 | 1.61 | 0.355 | 360 | 763 | 49 | 322 | 168 | 61 | 608 |
| SR12 | 1 | 21.20 | 4.90 | 5.31 | 0.047 | 1.21 | 0.98 | 3.93 | 1.58 | 0.327 | 348 | 703 | 57 | 296 | 164 | 68 | 493 |
| SR13 | 1 | 28.03 | 4.86 | 3.44 | 0.049 | 0.79 | 1.27 | 2.55 | 2.35 | 0.439 | 238 | 305 | 24 | 164 | 204 | 73 | 225 |
| SR14 | 1 | 25.97 | 5.40 | 4.11 | 0.047 | 1.01 | 1.16 | 2.93 | 1.85 | 0.374 | 402 | 800 | 46 | 228 | 181 | 62 | 383 |
| SR19 | 3 | 26.62 | 5.23 | 3.65 | 0.044 | 1.00 | 1.45 | 2.92 | 1.94 | 0.368 | 296 | 722 | 44 | 260 | 211 | 70 | 560 |
| BSP25 | 2 | 19.44 | 4.61 | 3.86 | 0.046 | 1.17 | 7.89 | 3.69 | 1.53 | 0.306 | 205 | 415 | 32 | 220 | 550 | 83 | 361 |
| BSP26 | 1 | 22.52 | 5.54 | 3.75 | 0.047 | 1.29 | 1.00 | 4.73 | 1.84 | 0.353 | 234 | 523 | 52 | 247 | 176 | 79 | 522 |
| BSP30 | 1 | 21.51 | 5.47 | 3.95 | 0.044 | 1.29 | 0.98 | 4.71 | 1.77 | 0.353 | 319 | 806 | 65 | 296 | 178 | 92 | 720 |
| BSP40 | 1 | 29.43 | 5.01 | 2.82 | 0.042 | 0.85 | 1.32 | 2.77 | 2.19 | 0.369 | 229 | 309 | 16 | 131 | 212 | 58 | 223 |
| BSP49 | 1 | 20.93 | 5.01 | 3.55 | 0.032 | 1.27 | 0.70 | 4.34 | 1.72 | 0.296 | 191 | 389 | 33 | 191 | 127 | 72 | 317 |
| BSP54 | 3 | 23.05 | 5.44 | 3.61 | 0.037 | 1.27 | 0.86 | 3.55 | 1.90 | 0.340 | 164 | 305 | 29 | 154 | 146 | 62 | 256 |
| BSP60 | 1 | 22.90 | 5.44 | 3.58 | 0.041 | 1.28 | 1.04 | 3.64 | 1.91 | 0.330 | 158 | 248 | 32 | 123 | 144 | 59 | 235 |
| BSP62 | 1 | 29.27 | 4.28 | 2.22 | 0.046 | 0.63 | 2.51 | 2.72 | 2.20 | 0.363 | 180 | 260 | BD | 110 | 275 | 41 | 152 |
| BSP63 | 1 | 21.61 | 5.34 | 3.67 | 0.036 | 1.36 | 0.86 | 4.26 | 1.83 | 0.319 | 191 | 372 | 31 | 178 | 144 | 60 | 246 |
| BSP64 | 1 | 27.51 | 5.14 | 3.10 | 0.039 | 0.94 | 2.47 | 2.61 | 2.14 | 0.369 | 185 | 245 | 19 | 116 | 280 | 69 | 190 |
| BSP74 | 1 | 30.49 | 4.71 | 2.19 | 0.040 | 0.73 | 1.52 | 2.75 | 2.30 | 0.322 | 171 | 214 | BD | 81 | 204 | 49 | 112 |
| BSP77 | 1 | 23.14 | 5.54 | 3.66 | 0.040 | 1.31 | 1.10 | 3.74 | 1.96 | 0.336 | 146 | 228 | 31 | 100 | 150 | 67 | 253 |
| BSP82 | 1 | 22.85 | 5.34 | 3.98 | 0.041 | 1.25 | 1.16 | 3.28 | 1.99 | 0.344 | 196 | 345 | 32 | 186 | 168 | 78 | 287 |
| BSP84 | 1 | 26.19 | 5.31 | 3.54 | 0.041 | 1.09 | 1.66 | 2.84 | 2.15 | 0.363 | 179 | 283 | 24 | 146 | 217 | 57 | 214 |
| BSP90 | 1 | 28.71 | 5.10 | 2.54 | 0.040 | 0.85 | 1.26 | 3.07 | 2.25 | 0.329 | 132 | 225 | 24 | 135 | 203 | 44 | 241 |
| BSP95 | 1 | 25.26 | 5.58 | 3.08 | 0.040 | 1.09 | 1.08 | 3.38 | 2.06 | 0.341 | 212 | 391 | 37 | 176 | 175 | 61 | 343 |
| BSP99 | 1 | 24.77 | 5.86 | 3.74 | 0.038 | 1.25 | 0.95 | 3.16 | 2.04 | 0.354 | 332 | 331 | 26 | 180 | 160 | 71 | 294 |
| BSP109 | 1 | 27.95 | 4.08 | 2.18 | 0.043 | 0.71 | 3.62 | 3.13 | 2.29 | 0.314 | 110 | 103 | BD | 67 | 302 | 32 | 122 |
| BSP110 | 1 | 25.62 | 5.29 | 3.30 | 0.043 | 1.06 | 2.65 | 2.62 | 2.26 | 0.373 | 161 | 236 | BD | 116 | 265 | 59 | 219 |
| BSP126 | 1 | 25.80 | 5.49 | 3.06 | 0.042 | 1.02 | 1.34 | 3.52 | 2.29 | 0.359 | 172 | 310 | 22 | 154 | 213 | 52 | 265 |
| BSP129 | 1 | 24.57 | 5.68 | 3.70 | 0.042 | 1.18 | 1.46 | 2.86 | 2.07 | 0.364 | 134 | 190 | 25 | 107 | 186 | 62 | 226 |
| BSP132 | 1 | 25.17 | 4.91 | 3.12 | 0.043 | 1.04 | 2.77 | 3.18 | 2.20 | 0.329 | 139 | 165 | BD | 106 | 231 | 67 | 187 |
| BSP134 | 3 | 37.30 | 3.82 | 1.19 | 0.039 | 0.32 | 0.76 | 1.88 | 2.27 | 0.182 | 92 | BD | BD | BD | 119 | 9 | BD |
| BSP139 | 1 | 21.65 | 5.10 | 3.77 | 0.044 | 1.22 | 2.61 | 3.56 | 1.97 | 0.350 | 130 | 176 | 32 | 108 | 295 | 75 | 216 |
| BSP145 | 1 | 28.19 | 5.10 | 2.84 | 0.045 | 0.85 | 2.12 | 2.84 | 2.57 | 0.382 | 153 | 158 | BD | 73 | 244 | 56 | 116 |
| BSP153 | 1 | 23.77 | 5.18 | 3.78 | 0.042 | 1.17 | 1.80 | 2.98 | 2.09 | 0.348 | 145 | 237 | 26 | 130 | 207 | 63 | 244 |
| BSP156 | 1 | 17.69 | 4.20 | 3.45 | 0.046 | 1.13 | 11.22 | 3.28 | 1.59 | 0.323 | 124 | 174 | 19 | 98 | 763 | 80 | 186 |
| BSP164 | 2 | 17.61 | 3.07 | 2.40 | 0.047 | 0.73 | 17.93 | 2.93 | 1.58 | 0.293 | 157 | 114 | BD | 48 | 866 | 57 | 91 |
| BSP170 | 1 | 35.25 | 3.52 | 0.96 | 0.019 | 0.32 | 0.71 | 2.26 | 2.31 | 0.127 | 69 | BD | BD | BD | 128 | 3 | BD |
| BSP176 | 1 | 27.12 | 4.21 | 2.30 | 0.039 | 0.85 | 3.81 | 3.14 | 1.94 | 0.289 | 66 | 75 | BD | 60 | 236 | 44 | 128 |
| BSP180 | 2 | 26.22 | 4.83 | 3.27 | 0.049 | 0.93 | 3.15 | 3.11 | 2.53 | 0.408 | 137 | 106 | 18 | 71 | 254 | 75 | 131 |
| BSP193 | 2 | 24.66 | 5.56 | 4.12 | 0.046 | 1.18 | 1.87 | 2.43 | 2.25 | 0.399 | 130 | 162 | 21 | 111 | 225 | 86 | 225 |
| BSP196 | 2 | 26.73 | 5.75 | 3.26 | 0.041 | 1.10 | 1.98 | 2.44 | 2.11 | 0.410 | 111 | 90 | 20 | 66 | 231 | 71 | 134 |
| BSP199 | 1 | 26.66 | 5.34 | 2.81 | 0.041 | 0.93 | 1.38 | 3.22 | 2.31 | 0.344 | 193 | 144 | BD | 92 | 215 | 52 | 192 |
| BSP204 | 2 | 37.32 | 3.29 | 0.87 | 0.020 | 0.21 | 0.97 | 2.29 | 2.38 | 0.139 | 82 | BD | BD | BD | 143 | BD | BD |

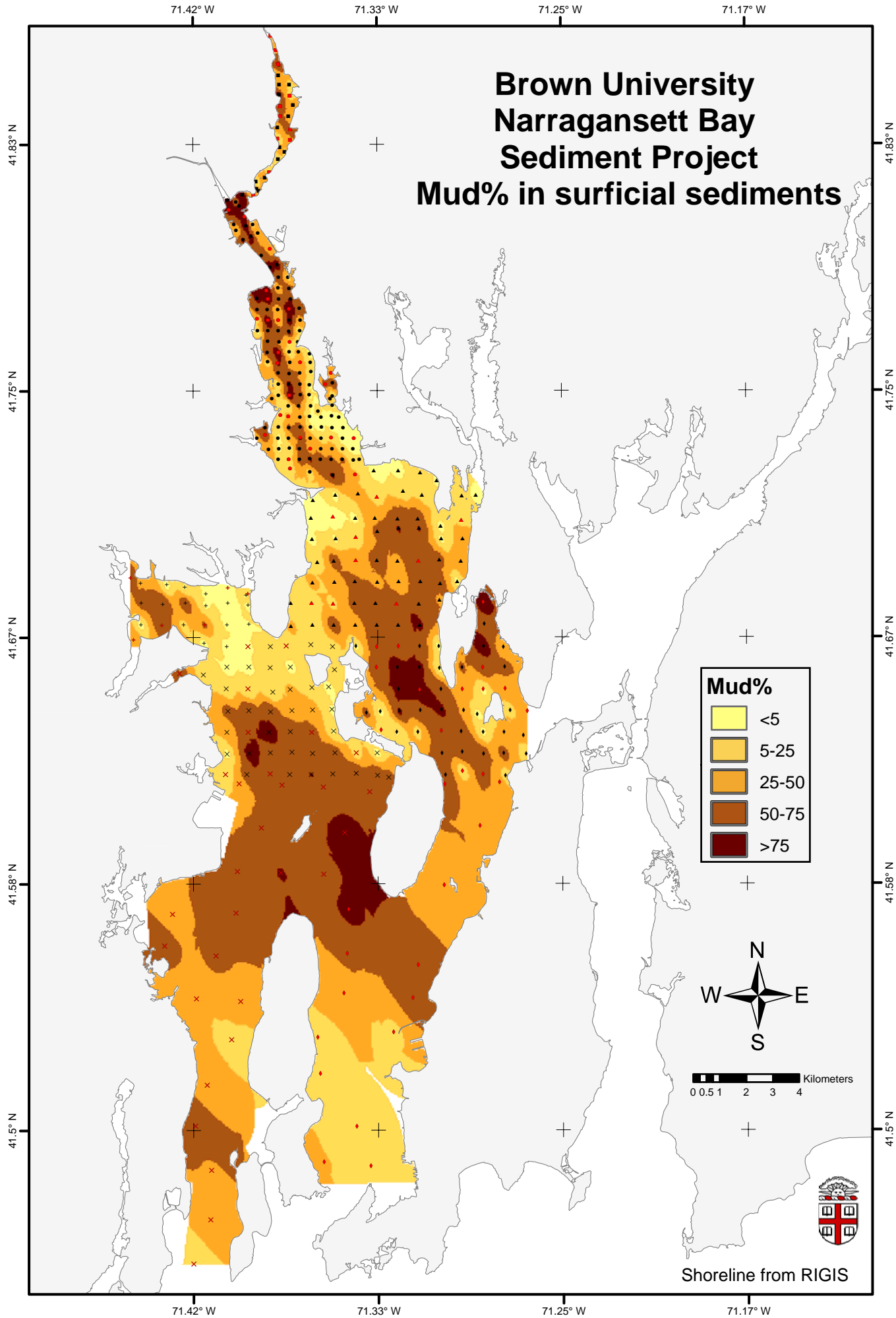
| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | Datenoformat | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Hg |
|------|----------|-----------|-------|----------|-----------|----------------|--------------|-------|--------|------|------|------|------|---------|-------|
| GB | 193 | BSP205 | 205 | 41.68157 | -71.39200 | 8/14/03 | 81403 | 6.5 | 0.0 | 72.8 | 27.2 | 0.2 | 1.99 | 2.1 | 0.035 |
| UB | 210 | BSP222 | 222 | 41.67838 | -71.36320 | 7/29/03 | 72903 | 7.9 | 25.5 | 69.7 | 4.8 | 0.1 | 0.81 | 0.7 | 0.066 |
| UB | 211 | BSP223 | 223 | 41.67832 | -71.35346 | 7/29/03 | 72903 | 8.5 | 15.2 | 66.2 | 18.7 | 0.2 | 1.29 | 1.5 | 0.112 |
| UB | 214 | BSP226 | 226 | 41.67818 | -71.32492 | 7/29/03 | 72903 | 7.8 | 7.8 | 20.4 | 71.8 | 0.3 | 3.46 | 3.7 | 0.499 |
| EP | 217 | BSP229 | 229 | 41.67862 | -71.28563 | 7/16/03 | 71603 | 5.0 | 0.9 | 9.5 | 89.6 | 0.4 | 3.59 | 4.6 | 0.822 |
| GB | 219 | BSP231 | 231 | 41.67102 | -71.43082 | 8/14/03 | 81403 | 4.7 | 0.0 | 34.4 | 65.6 | 0.3 | 3.20 | 3.4 | 0.551 |
| GB | 221 | BSP233 | 233 | 41.67115 | -71.41147 | 8/14/03 | 81403 | 5.1 | 0.0 | 46.6 | 53.4 | 0.2 | 2.37 | 2.9 | 0.315 |
| GB | 232 | BSP244 | 244 | 41.66602 | -71.44367 | 8/14/03 | 81403 | 5.2 | 0.0 | 53.0 | 47.0 | 0.5 | 4.62 | 4.5 | 0.847 |
| WP | 235 | BSP247 | 247 | 41.66367 | -71.39195 | 8/14/03 | 81403 | 5.2 | 0.0 | 95.8 | 4.2 | 0.1 | 0.41 | 0.6 | 0.057 |
| WP | 237 | BSP249 | 249 | 41.66400 | -71.37465 | 8/13/03 | 81303 | 18.6 | 0.0 | 94.0 | 6.0 | 0.1 | 1.24 | 0.9 | 0.073 |
| EP | 241 | BSP253 | 253 | 41.66374 | -71.33369 | 7/29/03 | 72903 | 8.0 | 9.2 | 25.4 | 65.4 | 0.3 | 3.28 | 3.7 | 0.503 |
| EP | 242 | BSP254 | 254 | 41.66391 | -71.32403 | 7/29/03 | 72903 | 8.4 | 28.2 | 9.4 | 62.4 | 0.4 | 3.99 | 4.9 | 0.466 |
| WP | 247 | BSP259 | 259 | 41.65450 | -71.42283 | 8/14/03 | 81403 | 2.5 | 0.0 | 35.8 | 64.2 | 0.3 | 3.36 | 3.3 | 0.200 |
| EP | 254 | BSP268 | 268 | 41.65667 | -71.33398 | 7/29/03 | 72903 | 8.3 | 2.8 | 34.3 | 62.9 | 0.4 | 3.46 | 4.4 | 0.502 |
| EP | 259 | BSP273 | 273 | 41.65663 | -71.28586 | 7/29/03 | 72903 | 8.8 | 22.8 | 15.3 | 61.9 | 0.3 | 2.96 | 3.8 | 0.421 |
| WP | 262 | BSP276 | 276 | 41.64947 | -71.39197 | 8/14/03 | 81403 | 7.8 | 0.0 | 90.2 | 9.8 | 0.1 | 0.68 | 0.9 | 0.095 |
| EP | 268 | BSP283 | 283 | 41.64925 | -71.31440 | 7/29/03 | 72903 | 10.6 | 7.6 | 8.4 | 84.0 | 0.3 | 2.81 | 3.5 | 0.367 |
| EP | 270 | BSP285 | 285 | 41.64939 | -71.29512 | 7/29/03 | 72903 | 10.0 | 33.1 | 27.0 | 39.9 | 0.2 | 2.69 | 2.6 | 0.255 |
| EP | 271 | BSP286 | 286 | 41.64922 | -71.28569 | 7/29/03 | 72903 | 4.0 | 31.0 | 67.3 | 1.8 | 0.1 | 0.61 | 0.6 | 0.069 |
| EP | 272 | BSP287 | 287 | 41.64944 | -71.27572 | 7/29/03 | 72903 | 7.2 | 52.7 | 15.6 | 31.7 | 0.4 | 3.66 | 4.7 | 0.431 |
| EP | 287 | BSP302 | 302 | 41.64194 | -71.26579 | 7/30/03 | 73003 | 9.0 | 16.6 | 43.3 | 40.1 | 0.2 | 2.49 | 3.1 | 0.297 |
| WP | 289 | BSP304 | 304 | 41.63477 | -71.39190 | 8/13/03 | 81303 | 10.3 | 0.0 | 25.9 | 74.1 | 0.1 | 2.99 | 3.5 | 0.321 |
| WP | 292 | BSP307 | 307 | 41.63467 | -71.36323 | 8/13/03 | 81303 | 8.9 | 0.0 | 42.7 | 57.3 | 0.2 | 2.64 | 3.8 | 0.299 |
| EP | 294 | BSP309 | 309 | 41.63548 | -71.33183 | 7/30/03 | 73003 | 5.1 | 48.5 | 28.1 | 23.4 | 0.3 | 3.78 | 4.5 | 0.330 |
| EP | 297 | BSP312 | 312 | 41.63531 | -71.30462 | 7/30/03 | 73003 | 14.8 | 4.6 | 26.4 | 69.0 | 0.2 | 3.76 | 3.1 | 0.290 |
| WP | 308 | BSP323 | 323 | 41.62772 | -71.34310 | 8/13/03 | 81303 | 7.5 | 0.0 | 83.5 | 16.5 | 0.1 | 0.85 | 0.9 | 0.101 |
| WP | 315 | BSP331 | 331 | 41.62057 | -71.40215 | 8/13/03 | 81303 | 3.2 | 0.0 | 93.4 | 6.6 | 0.1 | 0.56 | 0.5 | 0.027 |
| WP | 317 | BSP333 | 333 | 41.62060 | -71.38190 | 8/13/03 | 81303 | 9.2 | 0.0 | 29.2 | 70.8 | 0.3 | 2.42 | 2.8 | 0.327 |
| EP | 325 | BSP341 | 341 | 41.62176 | -71.29513 | 7/30/03 | 73003 | 18.4 | 27.1 | 64.0 | 8.9 | 0.2 | 2.94 | 2.7 | 0.294 |
| EP | 326 | BSP342 | 342 | 41.62048 | -71.28578 | 7/30/03 | 73003 | 15.4 | 16.7 | 19.8 | 63.5 | 0.3 | 3.73 | 3.8 | 0.280 |
| WP | 328 | LB01 | LB01 | 41.61726 | -71.39597 | 6/21/06 | 62106 | 7.6 | 21.3 | 45.4 | 33.3 | 0.2 | 1.86 | 2.2 | 0.206 |
| WP | 329 | LB02 | LB02 | 41.61690 | -71.37659 | 6/21/06 | 62106 | 9.0 | 2.5 | 30.1 | 67.4 | 0.2 | 2.45 | 3.2 | 0.275 |
| WP | 330 | LB03 | LB03 | 41.61621 | -71.35793 | 6/21/06 | 62106 | 9.5 | 14.4 | 28.2 | 57.3 | 0.2 | 3.00 | 3.2 | 0.237 |
| WP | 331 | LB04 | LB04 | 41.61461 | -71.33701 | 6/21/06 | 62106 | 8.7 | 3.5 | 27.0 | 69.6 | 0.2 | 2.47 | 4.3 | 0.294 |
| EP | 332 | LB05 | LB05 | 41.61711 | -71.30307 | 7/17/06 | 62106 | 15.8 | 11.4 | 27.9 | 60.7 | 0.3 | 3.04 | 4.4 | 0.310 |
| EP | 333 | LB05A | LB05A | 41.61792 | -71.27837 | 7/17/06 | 71706 | 6.6 | 23.4 | 38.3 | 38.3 | 0.3 | 5.28 | 4.5 | 0.285 |
| WP | 334 | LB06 | LB06 | 41.60233 | -71.38600 | 6/21/06 | 62106 | 10.0 | 2.7 | 33.4 | 63.8 | 0.2 | 2.14 | 3.6 | 0.218 |
| WP | 335 | LB07 | LB07 | 41.60074 | -71.34839 | 6/21/06 | 62106 | 10.4 | 0.0 | 15.6 | 84.4 | 0.2 | 2.42 | 3.3 | 0.294 |
| EP | 336 | LB08 | LB08 | 41.60321 | -71.28721 | 7/17/06 | 71706 | 14.7 | 12.6 | 44.9 | 42.5 | 0.3 | 3.05 | 3.3 | 0.227 |
| WP | 337 | LB09 | LB09 | 41.58759 | -71.39684 | 6/21/06 | 62106 | 11.6 | 6.0 | 28.5 | 65.5 | 0.2 | 2.14 | 2.7 | 0.174 |
| WP | 338 | LB10 | LB10 | 41.58715 | -71.37711 | 6/21/06 | 62106 | 9.3 | 4.5 | 20.3 | 75.3 | 0.2 | 2.35 | 2.9 | 0.176 |
| WP | 339 | LB11 | LB11 | 41.58665 | -71.35780 | 6/21/06 | 62106 | 9.4 | 4.2 | 26.5 | 69.4 | 0.2 | 2.04 | 2.7 | 0.195 |
| WP | 340 | LB12 | LB12 | 41.57329 | -71.42612 | 6/21/06 | 62106 | 6.1 | 2.9 | 54.9 | 42.2 | 0.1 | 1.15 | 1.5 | 0.101 |
| WP | 341 | LB13 | LB13 | 41.57356 | -71.39743 | 6/21/06 | 62106 | 9.2 | 2.1 | 32.5 | 65.4 | 0.2 | 2.00 | 2.8 | 0.181 |
| EP | 342 | LB14 | LB14 | 41.57490 | -71.34655 | 7/17/06 | 71706 | 10.6 | 1.4 | 19.4 | 79.1 | 0.2 | 2.05 | 2.8 | 0.177 |

| Sample ID | #analyzed | Si | Al | Fe | Mn | Mg | Ca | Na | K | Ti | Cr | Cu | Ni | Pb | Sr | V | Zn |
|-----------|-----------|-------|------|------|-------|------|------|------|------|-------|-----|-----|----|-----|-----|----|-----|
| BSP205 | 1 | 26.15 | 4.70 | 2.54 | 0.038 | 0.94 | 2.06 | 3.93 | 2.18 | 0.321 | 62 | 149 | 14 | 61 | 226 | 47 | 256 |
| BSP222 | 1 | 27.69 | 3.50 | 2.22 | 0.045 | 0.55 | 6.39 | 2.65 | 2.51 | 0.309 | 132 | 36 | BD | BD | 335 | 39 | 65 |
| BSP223 | 1 | 26.54 | 5.00 | 3.21 | 0.046 | 0.94 | 3.77 | 2.66 | 2.33 | 0.399 | 115 | 102 | BD | 74 | 270 | 68 | 145 |
| BSP226 | 1 | 25.11 | 6.17 | 4.02 | 0.044 | 1.27 | 1.32 | 2.70 | 2.17 | 0.419 | 143 | 144 | 29 | 96 | 202 | 82 | 184 |
| BSP229 | 1 | 25.59 | 5.73 | 3.42 | 0.036 | 1.12 | 0.73 | 2.64 | 2.05 | 0.390 | 112 | 141 | 26 | 114 | 159 | 76 | 229 |
| BSP231 | 1 | 26.19 | 5.57 | 3.46 | 0.047 | 1.09 | 1.08 | 2.97 | 2.37 | 0.366 | 171 | 140 | 19 | 130 | 180 | 71 | 208 |
| BSP233 | 1 | 26.19 | 5.73 | 3.38 | 0.041 | 1.12 | 1.04 | 2.81 | 2.23 | 0.361 | 135 | 107 | 26 | 101 | 177 | 79 | 163 |
| BSP244 | 1 | 23.80 | 5.06 | 3.00 | 0.034 | 1.11 | 0.90 | 3.57 | 1.98 | 0.298 | 191 | 238 | 20 | 135 | 146 | 60 | 276 |
| BSP247 | 2 | 32.16 | 3.60 | 1.51 | 0.047 | 0.43 | 2.62 | 2.67 | 2.50 | 0.362 | 146 | BD | BD | 46 | 231 | 31 | BD |
| BSP249 | 1 | 33.03 | 3.64 | 1.43 | 0.030 | 0.43 | 4.45 | 2.25 | 2.09 | 0.174 | 88 | BD | BD | BD | 213 | 8 | 54 |
| BSP253 | 1 | 25.19 | 6.11 | 3.92 | 0.044 | 1.25 | 1.61 | 2.68 | 2.15 | 0.406 | 140 | 135 | 36 | 92 | 208 | 84 | 212 |
| BSP254 | 1 | 23.66 | 5.88 | 3.64 | 0.040 | 1.26 | 1.51 | 2.49 | 2.01 | 0.348 | 105 | 91 | 30 | 86 | 231 | 91 | 201 |
| BSP259 | 1 | 26.63 | 5.47 | 3.45 | 0.039 | 1.06 | 0.93 | 2.98 | 2.15 | 0.372 | 92 | 84 | 21 | 57 | 177 | 71 | 183 |
| BSP268 | 1 | 24.71 | 5.98 | 4.08 | 0.043 | 1.23 | 1.16 | 2.46 | 2.18 | 0.399 | 131 | 123 | 23 | 96 | 162 | 94 | 215 |
| BSP273 | 1 | 26.01 | 5.90 | 3.69 | 0.045 | 1.20 | 1.75 | 2.22 | 2.16 | 0.416 | 95 | 78 | 27 | 92 | 226 | 77 | 166 |
| BSP276 | 1 | 31.74 | 4.21 | 1.98 | 0.040 | 0.63 | 2.21 | 2.41 | 2.37 | 0.385 | 172 | 36 | BD | BD | 182 | 44 | 80 |
| BSP283 | 1 | 25.29 | 5.93 | 3.44 | 0.040 | 1.22 | 1.38 | 3.05 | 2.09 | 0.386 | 91 | 68 | 32 | 60 | 176 | 74 | 134 |
| BSP285 | 1 | 25.74 | 5.57 | 3.30 | 0.043 | 1.12 | 2.96 | 2.82 | 2.11 | 0.429 | 99 | 70 | 17 | 53 | 337 | 83 | 137 |
| BSP286 | 1 | 35.37 | 4.14 | 1.81 | 0.033 | 0.45 | 2.29 | 1.55 | 1.66 | 0.495 | 56 | BD | BD | BD | 156 | 33 | 63 |
| BSP287 | 1 | 23.39 | 5.50 | 3.29 | 0.037 | 1.21 | 2.32 | 3.07 | 1.89 | 0.340 | 109 | 76 | 22 | 96 | 244 | 71 | 183 |
| BSP302 | 1 | 25.78 | 5.45 | 3.40 | 0.042 | 1.05 | 2.63 | 2.28 | 2.17 | 0.445 | 93 | 64 | 28 | 61 | 239 | 67 | 153 |
| BSP304 | 1 | 25.83 | 6.07 | 3.68 | 0.041 | 1.18 | 1.36 | 2.68 | 2.23 | 0.399 | 115 | 109 | 25 | 86 | 194 | 79 | 188 |
| BSP307 | 1 | 24.90 | 5.73 | 3.62 | 0.042 | 1.15 | 2.06 | 2.45 | 2.14 | 0.399 | 115 | 102 | 19 | 70 | 214 | 83 | 190 |
| BSP309 | 1 | 22.79 | 5.02 | 3.75 | 0.041 | 1.18 | 3.71 | 3.05 | 1.93 | 0.364 | 118 | 98 | 19 | 96 | 299 | 84 | 265 |
| BSP312 | 3 | 26.39 | 5.81 | 3.29 | 0.042 | 1.11 | 1.67 | 2.70 | 2.10 | 0.398 | 99 | 54 | 25 | 66 | 196 | 76 | 127 |
| BSP323 | 3 | 29.95 | 5.18 | 3.04 | 0.045 | 0.91 | 1.24 | 2.33 | 2.30 | 0.644 | 127 | 50 | 19 | 49 | 165 | 76 | 92 |
| BSP331 | 1 | 34.50 | 3.77 | 1.42 | 0.033 | 0.45 | 0.83 | 2.57 | 2.23 | 0.479 | 95 | BD | BD | BD | 140 | 47 | BD |
| BSP333 | 1 | 26.86 | 6.17 | 3.88 | 0.045 | 1.20 | 1.09 | 2.49 | 2.32 | 0.427 | 117 | 82 | 27 | 62 | 172 | 83 | 152 |
| BSP341 | 1 | 26.00 | 5.58 | 3.38 | 0.044 | 1.08 | 2.50 | 2.51 | 2.17 | 0.429 | 98 | 65 | 28 | 79 | 250 | 63 | 124 |
| BSP342 | 1 | 24.09 | 5.68 | 3.70 | 0.044 | 1.19 | 2.94 | 2.99 | 2.09 | 0.394 | 94 | 55 | 29 | 70 | 239 | 86 | 141 |
| LB01 | 1 | 28.81 | 5.88 | 2.54 | 0.032 | 1.04 | 1.22 | 3.14 | 2.11 | 0.363 | 78 | 45 | 13 | 39 | 150 | 55 | 84 |
| LB02 | 2 | 26.88 | 6.14 | 3.23 | 0.036 | 1.16 | 1.46 | 2.86 | 2.12 | 0.379 | 97 | 69 | 24 | 56 | 157 | 72 | 131 |
| LB03 | 1 | 26.41 | 5.65 | 2.90 | 0.035 | 1.07 | 3.36 | 2.80 | 1.99 | 0.342 | 99 | 57 | 26 | 54 | 215 | 60 | 113 |
| LB04 | 1 | 25.88 | 5.81 | 2.91 | 0.034 | 1.09 | 2.17 | 2.77 | 1.98 | 0.351 | 98 | 46 | 25 | 48 | 171 | 68 | 112 |
| LB05 | 1 | 24.33 | 5.76 | 3.17 | 0.048 | 1.19 | 1.73 | 3.36 | 1.86 | 0.345 | 82 | 46 | 22 | 59 | 172 | 67 | 128 |
| LB05A | 1 | 20.42 | 5.10 | 2.97 | 0.037 | 1.11 | 8.45 | 2.98 | 1.65 | 0.328 | 80 | 38 | 22 | 68 | 429 | 68 | 88 |
| LB06 | 1 | 26.78 | 5.92 | 2.69 | 0.033 | 1.11 | 1.25 | 2.97 | 2.02 | 0.359 | 73 | 45 | 14 | 39 | 146 | 66 | 83 |
| LB07 | 2 | 26.94 | 6.30 | 3.34 | 0.037 | 1.21 | 1.05 | 2.74 | 2.09 | 0.390 | 96 | 52 | 19 | 46 | 145 | 72 | 128 |
| LB08 | 1 | 24.27 | 5.57 | 3.10 | 0.039 | 1.15 | 3.79 | 3.29 | 1.91 | 0.376 | 86 | 45 | 21 | 42 | 264 | 65 | 92 |
| LB09 | 1 | 27.23 | 6.16 | 3.07 | 0.037 | 1.14 | 1.31 | 2.61 | 2.19 | 0.375 | 82 | 47 | 11 | 32 | 154 | 69 | 96 |
| LB10 | 1 | 26.84 | 5.94 | 2.90 | 0.036 | 1.11 | 1.87 | 3.00 | 2.00 | 0.375 | 74 | 39 | 23 | 36 | 174 | 65 | 83 |
| LB11 | 1 | 27.99 | 6.19 | 2.79 | 0.034 | 1.18 | 1.28 | 2.96 | 2.03 | 0.396 | 67 | 36 | 13 | 51 | 148 | 62 | 111 |
| LB12 | 2 | 30.69 | 5.66 | 2.17 | 0.034 | 0.88 | 1.04 | 2.62 | 2.37 | 0.359 | 78 | 32 | BD | BD | 127 | 51 | 61 |
| LB13 | 1 | 26.94 | 6.37 | 3.02 | 0.037 | 1.21 | 0.95 | 2.93 | 2.18 | 0.385 | 83 | 35 | 17 | 61 | 145 | 62 | 106 |
| LB14 | 1 | 27.08 | 6.17 | 2.99 | 0.035 | 1.22 | 1.24 | 3.00 | 2.07 | 0.400 | 74 | 38 | 17 | 42 | 157 | 68 | 81 |

| Area | Sequence | Sample ID | MapID | LATITUDE | LONGITUDE | CollectionDate | DatenofORMAT | Depth | GRAVEL | SAND | MUD | Ntot | Ctot | CorgLOI | Hg |
|------|----------|-----------|-------|----------|-----------|----------------|--------------|-------|--------|------|------|------|------|---------|-------|
| EP | 343 | LB15 | LB15 | 41.58314 | -71.30344 | 7/17/06 | 71706 | 14.5 | 4.3 | 64.0 | 31.7 | 0.2 | 1.70 | 1.9 | 0.137 |
| WP | 344 | LB16 | LB16 | 41.56258 | -71.42964 | 6/21/06 | 62106 | 6.4 | 0.4 | 41.8 | 57.8 | 0.2 | 1.56 | 2.2 | 0.152 |
| WP | 345 | LB17 | LB17 | 41.55910 | -71.40652 | 6/21/06 | 62106 | 9.4 | 0.7 | 42.2 | 57.2 | 0.1 | 1.53 | 2.0 | 0.112 |
| EP | 346 | LB18 | LB18 | 41.56001 | -71.34731 | 7/17/06 | 71706 | 13.2 | 0.0 | 46.2 | 53.8 | 0.2 | 1.47 | 2.1 | 0.140 |
| EP | 347 | LB19 | LB19 | 41.55622 | -71.31531 | 7/17/06 | 71706 | 16.5 | 0.1 | 38.3 | 61.5 | 0.2 | 2.36 | 3.1 | 0.190 |
| WP | 348 | LB20 | LB20 | 41.54464 | -71.41530 | 6/21/06 | 62106 | 7.8 | 0.5 | 70.2 | 29.3 | 0.1 | 1.12 | 1.3 | 0.070 |
| WP | 349 | LB21 | LB21 | 41.54384 | -71.39540 | 6/21/06 | 62106 | 13.3 | 8.6 | 63.9 | 27.5 | 0.1 | 1.07 | 1.6 | 0.057 |
| EP | 350 | LB22 | LB22 | 41.54665 | -71.34882 | 7/17/06 | 71706 | 18.2 | 0.4 | 69.8 | 29.9 | 0.1 | 1.09 | 1.6 | 0.109 |
| EP | 351 | LB23 | LB23 | 41.54507 | -71.31772 | 7/17/06 | 71706 | 17.2 | 0.0 | 37.0 | 63.0 | 0.2 | 2.23 | 3.2 | 0.184 |
| WP | 352 | LB24 | LB24 | 41.53072 | -71.39954 | 6/21/06 | 62106 | 8.5 | 42.6 | 37.7 | 19.7 | 0.2 | 4.29 | 2.6 | 0.089 |
| EP | 353 | LB25 | LB25 | 41.53156 | -71.36057 | 7/17/06 | 71706 | 12.9 | 2.2 | 74.5 | 23.3 | 0.1 | 1.51 | 1.9 | 0.059 |
| EP | 354 | LB26 | LB26 | 41.53336 | -71.32649 | 7/17/06 | 71706 | 18.9 | 24.0 | 53.8 | 22.1 | 0.2 | 1.61 | 1.9 | 0.061 |
| WP | 355 | LB27 | LB27 | 41.51554 | -71.41048 | 6/21/06 | 62106 | 15.3 | 0.7 | 62.0 | 37.3 | 0.1 | 1.46 | 2.0 | 0.088 |
| EP | 356 | LB28 | LB28 | 41.51941 | -71.35953 | 7/17/06 | 71706 | 14.5 | 0.0 | 86.3 | 13.6 | 0.1 | 0.98 | 1.2 | 0.049 |
| WP | 357 | LB29 | LB29 | 41.50168 | -71.41578 | 6/21/06 | 62106 | 13.5 | 1.4 | 30.6 | 68.0 | 0.2 | 2.50 | 3.1 | 0.171 |
| EP | 358 | LB30 | LB30 | 41.50158 | -71.34304 | 7/17/06 | 71706 | 23.1 | 65.8 | 28.1 | 6.1 | 0.2 | 7.41 | 2.3 | 0.041 |
| WP | 359 | LB31 | LB31 | 41.48660 | -71.40863 | 6/21/06 | 62106 | 15.5 | 20.1 | 31.5 | 48.4 | 0.2 | 3.32 | 3.4 | 0.107 |
| EP | 360 | LB32 | LB32 | 41.48949 | -71.35789 | 7/17/06 | 71706 | 20.1 | 2.6 | 71.8 | 25.5 | 0.1 | 1.69 | 1.0 | 0.062 |
| WP | 361 | LB33 | LB33 | 41.46994 | -71.40903 | 6/21/06 | 62106 | 16.5 | 8.0 | 55.6 | 36.4 | 0.1 | 1.69 | 2.0 | 0.069 |
| EP | 362 | LB34 | LB34 | 41.48809 | -71.33678 | 7/17/06 | 71706 | 18.0 | 2.0 | 88.7 | 9.2 | 0.1 | 0.69 | 1.3 | 0.094 |
| WP | 363 | LB35 | LB35 | 41.45495 | -71.41670 | 6/21/06 | 62106 | 15.5 | 0.1 | 89.3 | 10.6 | 0.0 | 0.59 | 0.7 | 0.017 |

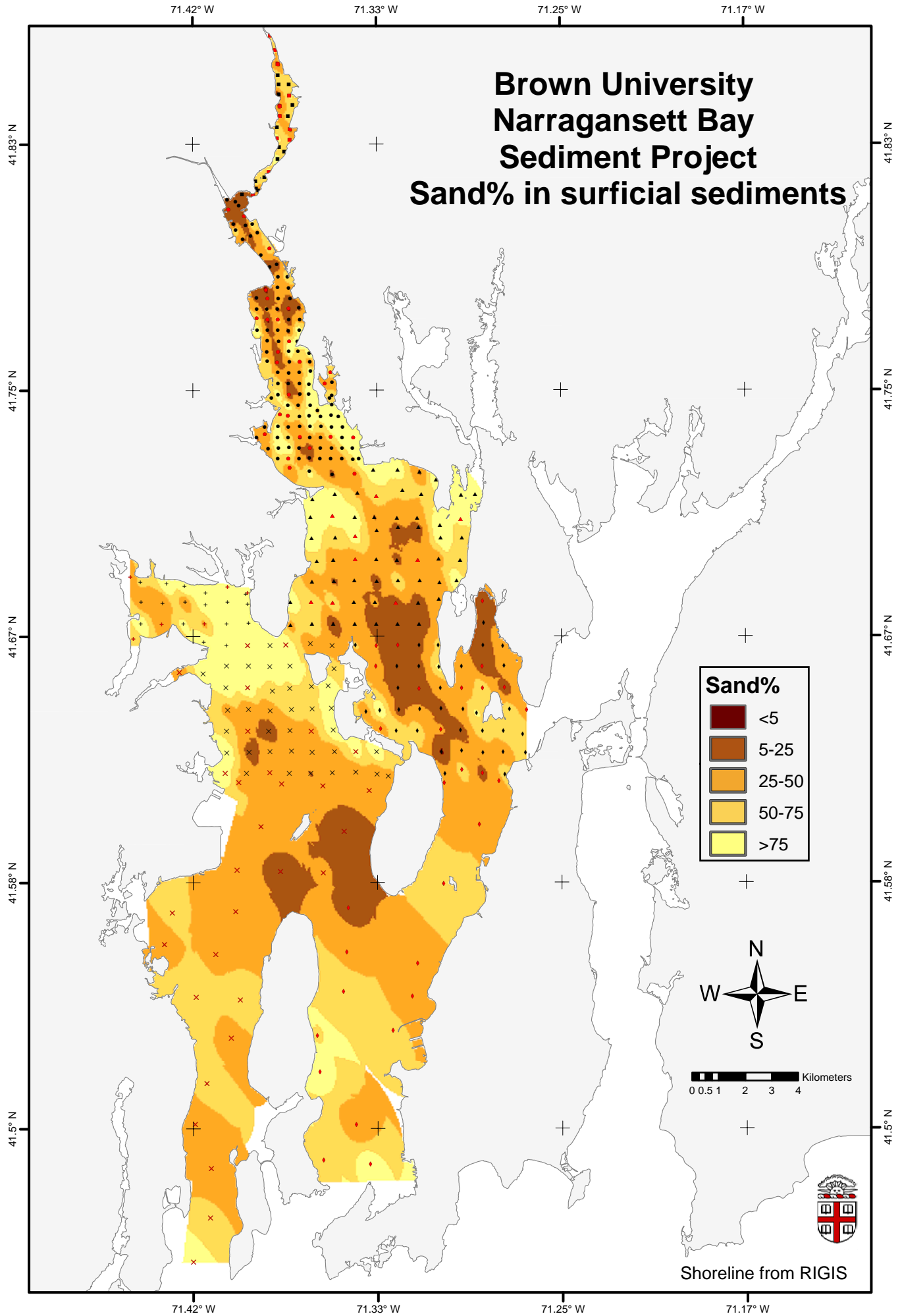
| Sample ID | #analyzed | Si | Al | Fe | Mn | Mg | Ca | Na | K | Ti | Cr | Cu | Ni | Pb | Sr | V | Zn |
|-----------|-----------|-------|------|------|-------|------|-------|------|------|-------|-----|----|----|----|------|----|-----|
| LB15 | 1 | 26.90 | 5.87 | 3.24 | 0.045 | 1.11 | 2.46 | 2.60 | 2.20 | 0.541 | 92 | 40 | BD | 46 | 166 | 80 | 107 |
| LB16 | 1 | 28.99 | 5.96 | 2.62 | 0.033 | 1.00 | 0.82 | 2.58 | 2.23 | 0.389 | 103 | 29 | 18 | 45 | 135 | 57 | 78 |
| LB17 | 1 | 28.17 | 6.06 | 2.66 | 0.035 | 1.12 | 1.12 | 3.06 | 2.27 | 0.380 | 59 | 30 | BD | 42 | 150 | 59 | 70 |
| LB18 | 1 | 28.45 | 6.04 | 2.91 | 0.040 | 1.16 | 1.00 | 2.79 | 2.15 | 0.434 | 70 | 43 | 22 | 48 | 154 | 69 | 71 |
| LB19 | 1 | 26.42 | 6.21 | 3.02 | 0.037 | 1.20 | 1.22 | 3.15 | 2.04 | 0.392 | 73 | 39 | 26 | 52 | 152 | 70 | 110 |
| LB20 | 1 | 29.85 | 5.44 | 2.31 | 0.035 | 0.92 | 1.40 | 2.72 | 2.48 | 0.397 | 70 | 25 | BD | BD | 141 | 54 | 64 |
| LB21 | 1 | 28.37 | 5.58 | 3.06 | 0.043 | 0.93 | 2.37 | 2.43 | 2.44 | 0.409 | 72 | 24 | BD | BD | 177 | 62 | 122 |
| LB22 | 1 | 29.71 | 5.79 | 2.91 | 0.039 | 1.02 | 1.08 | 2.47 | 2.21 | 0.451 | 85 | 32 | BD | 32 | 159 | 57 | 63 |
| LB23 | 1 | 26.25 | 6.09 | 3.02 | 0.038 | 1.19 | 1.36 | 3.15 | 2.04 | 0.388 | 77 | 24 | 13 | 38 | 143 | 75 | 87 |
| LB24 | 1 | 21.62 | 4.47 | 2.78 | 0.047 | 0.85 | 11.56 | 2.57 | 1.81 | 0.339 | 73 | BD | 19 | 42 | 553 | 50 | BD |
| LB25 | 1 | 27.13 | 5.76 | 3.88 | 0.055 | 1.08 | 1.34 | 3.00 | 2.19 | 0.707 | 124 | BD | 19 | 33 | 152 | 93 | 80 |
| LB26 | 1 | 28.00 | 5.44 | 2.66 | 0.047 | 1.04 | 2.48 | 3.04 | 2.06 | 0.450 | 70 | 23 | BD | BD | 206 | 68 | BD |
| LB27 | 2 | 29.05 | 5.69 | 2.51 | 0.036 | 0.98 | 1.42 | 2.69 | 2.28 | 0.389 | 69 | 25 | 19 | 28 | 143 | 56 | 77 |
| LB28 | 1 | 29.35 | 5.25 | 3.01 | 0.053 | 0.92 | 1.16 | 2.81 | 2.32 | 0.780 | 141 | BD | BD | BD | 167 | 80 | 63 |
| LB29 | 2 | 25.78 | 6.00 | 2.95 | 0.037 | 1.17 | 2.14 | 3.08 | 2.10 | 0.359 | 84 | 34 | 22 | 39 | 164 | 68 | 93 |
| LB30 | 1 | 10.86 | 2.53 | 2.34 | 0.061 | 0.63 | 28.44 | 3.19 | 1.02 | 0.261 | 37 | BD | BD | 42 | 1112 | 46 | 151 |
| LB31 | 1 | 23.60 | 5.39 | 2.77 | 0.036 | 1.09 | 5.46 | 3.25 | 1.89 | 0.359 | 69 | BD | 21 | 27 | 285 | 63 | 56 |
| LB32 | 2 | 28.94 | 6.45 | 3.96 | 0.054 | 1.06 | 1.61 | 2.52 | 2.30 | 0.400 | 108 | 50 | 25 | 39 | 158 | 78 | 95 |
| LB33 | 2 | 27.52 | 5.49 | 2.91 | 0.043 | 0.97 | 2.75 | 2.72 | 2.27 | 0.418 | 75 | 20 | 22 | BD | 188 | 70 | 58 |
| LB34 | 2 | 29.84 | 5.33 | 2.89 | 0.031 | 0.84 | 2.52 | 2.51 | 2.27 | 0.353 | 77 | 30 | 14 | 56 | 153 | 55 | 127 |
| LB35 | 1 | 32.58 | 4.82 | 2.10 | 0.042 | 0.60 | 1.44 | 2.64 | 2.56 | 0.404 | 47 | BD | BD | 34 | 172 | 45 | BD |

Brown University Narragansett Bay Sediment Project Mud% in surficial sediments



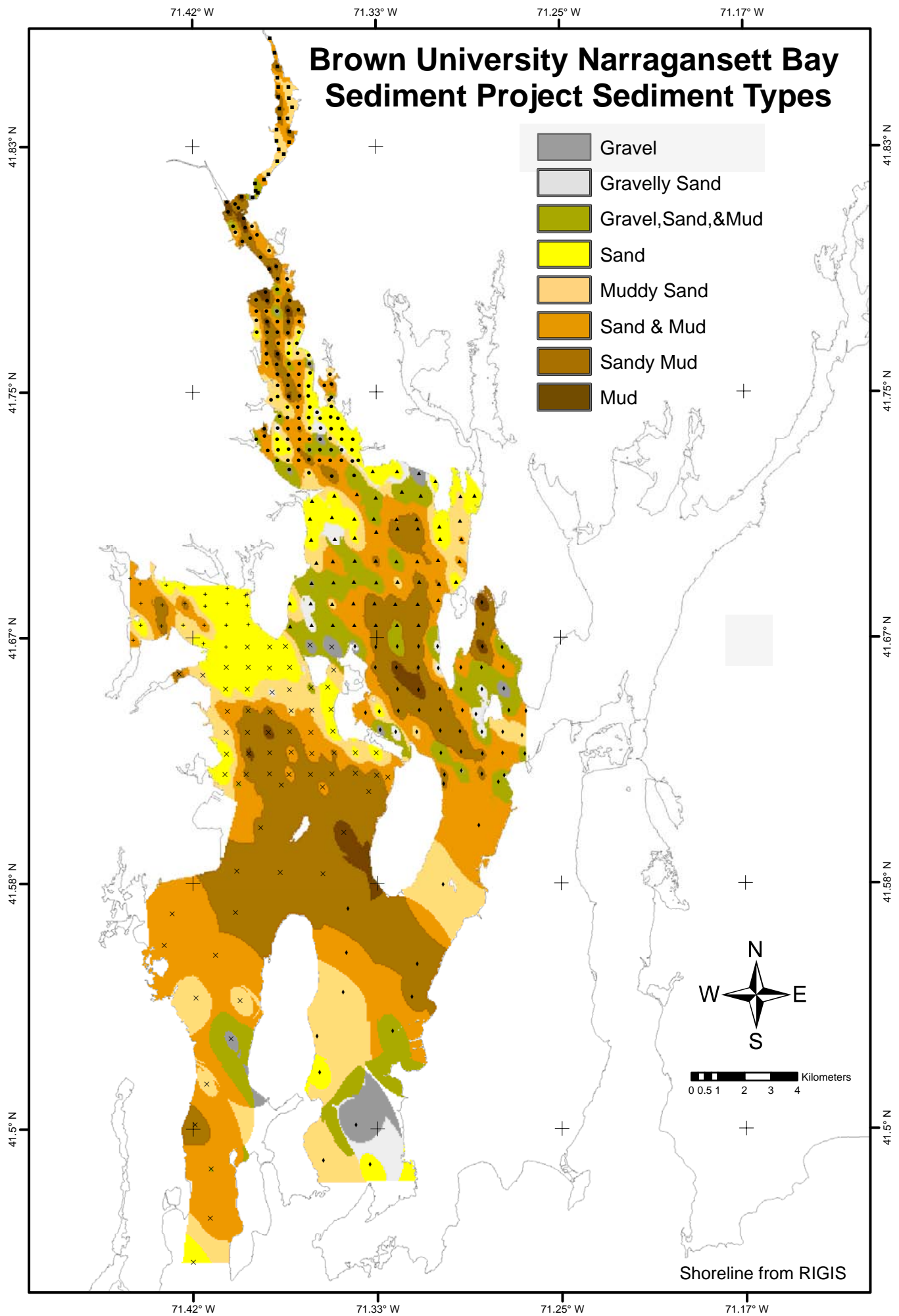
Shoreline from RIGIS

Brown University Narragansett Bay Sediment Project Sand% in surficial sediments

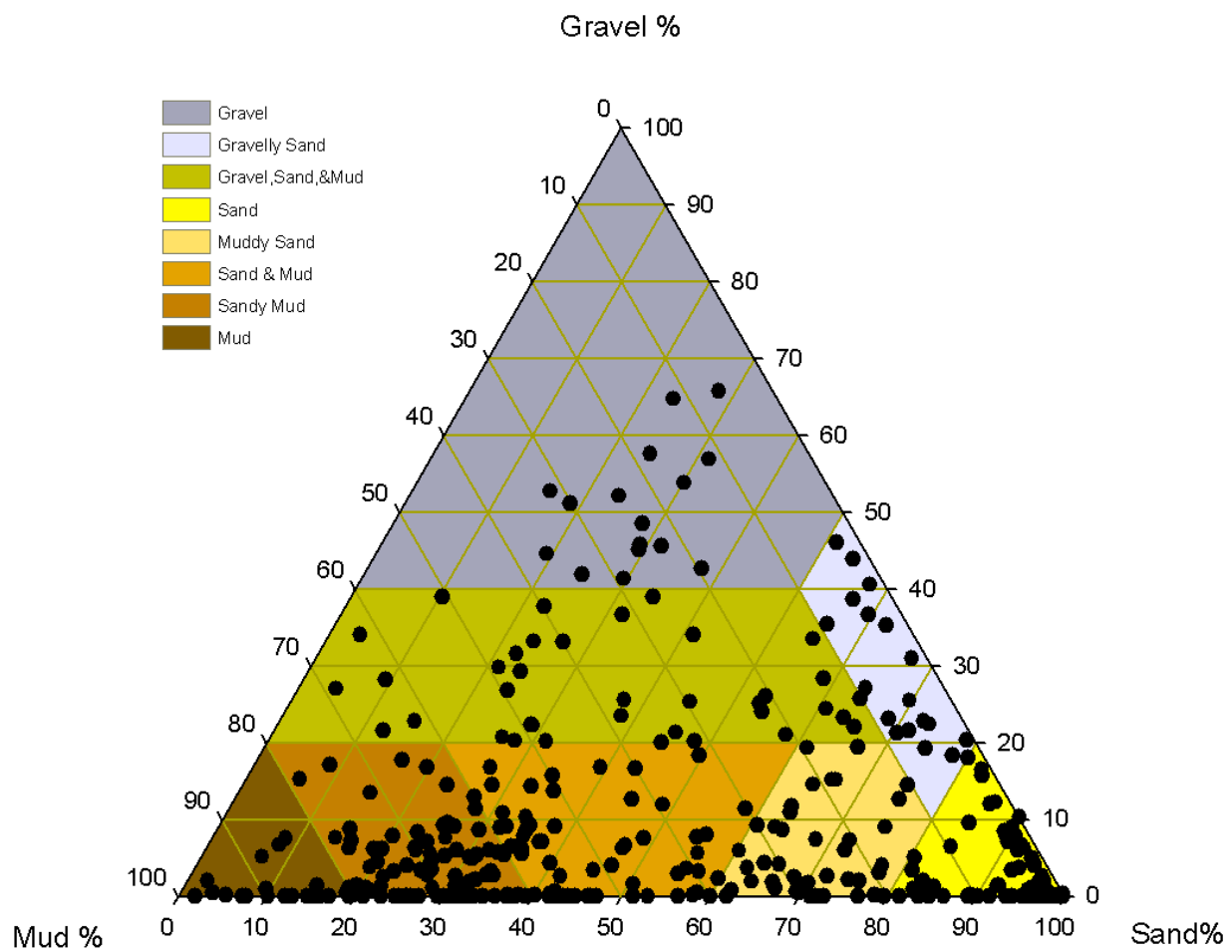


Shoreline from RIGIS

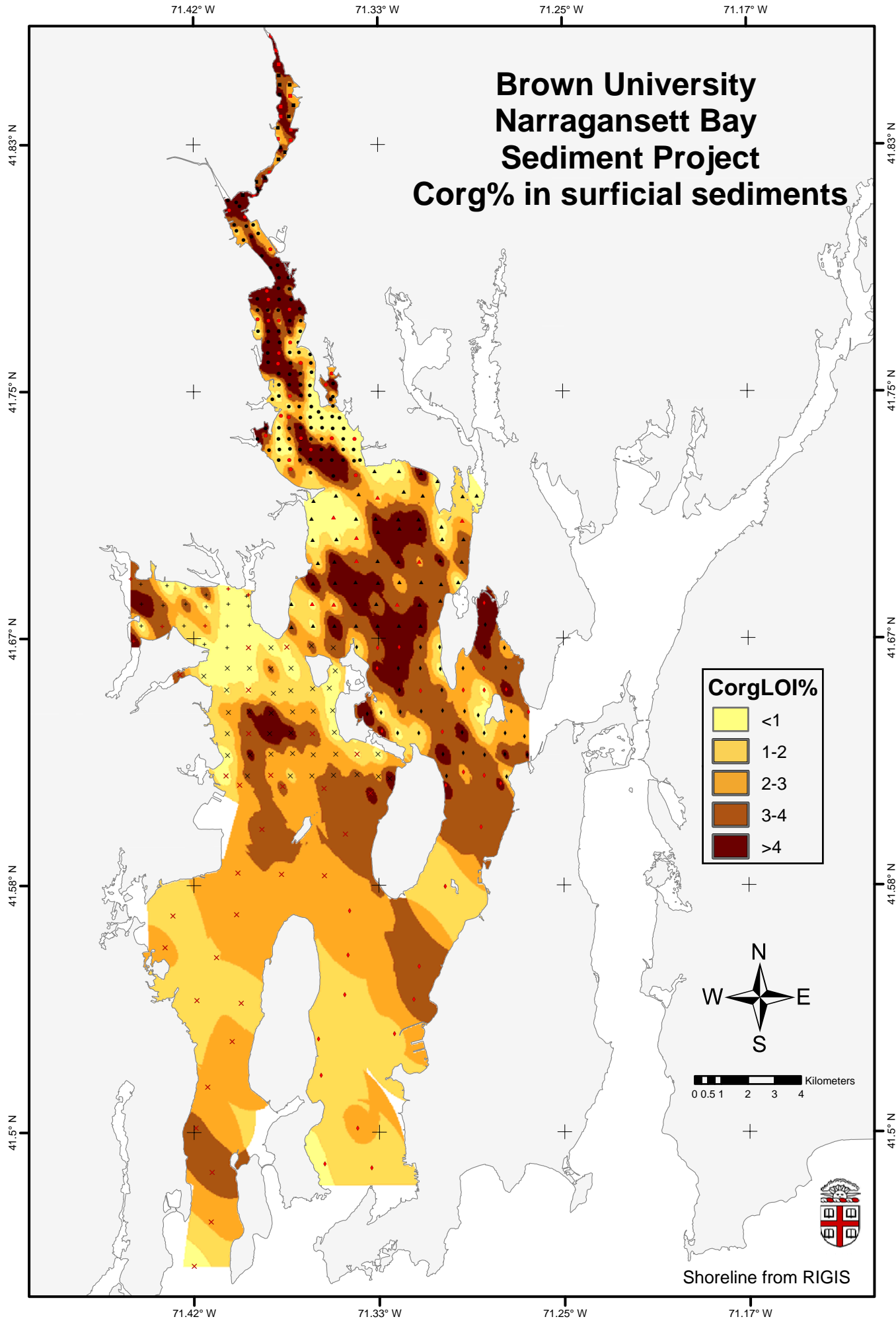
Brown University Narragansett Bay Sediment Project Sediment Types



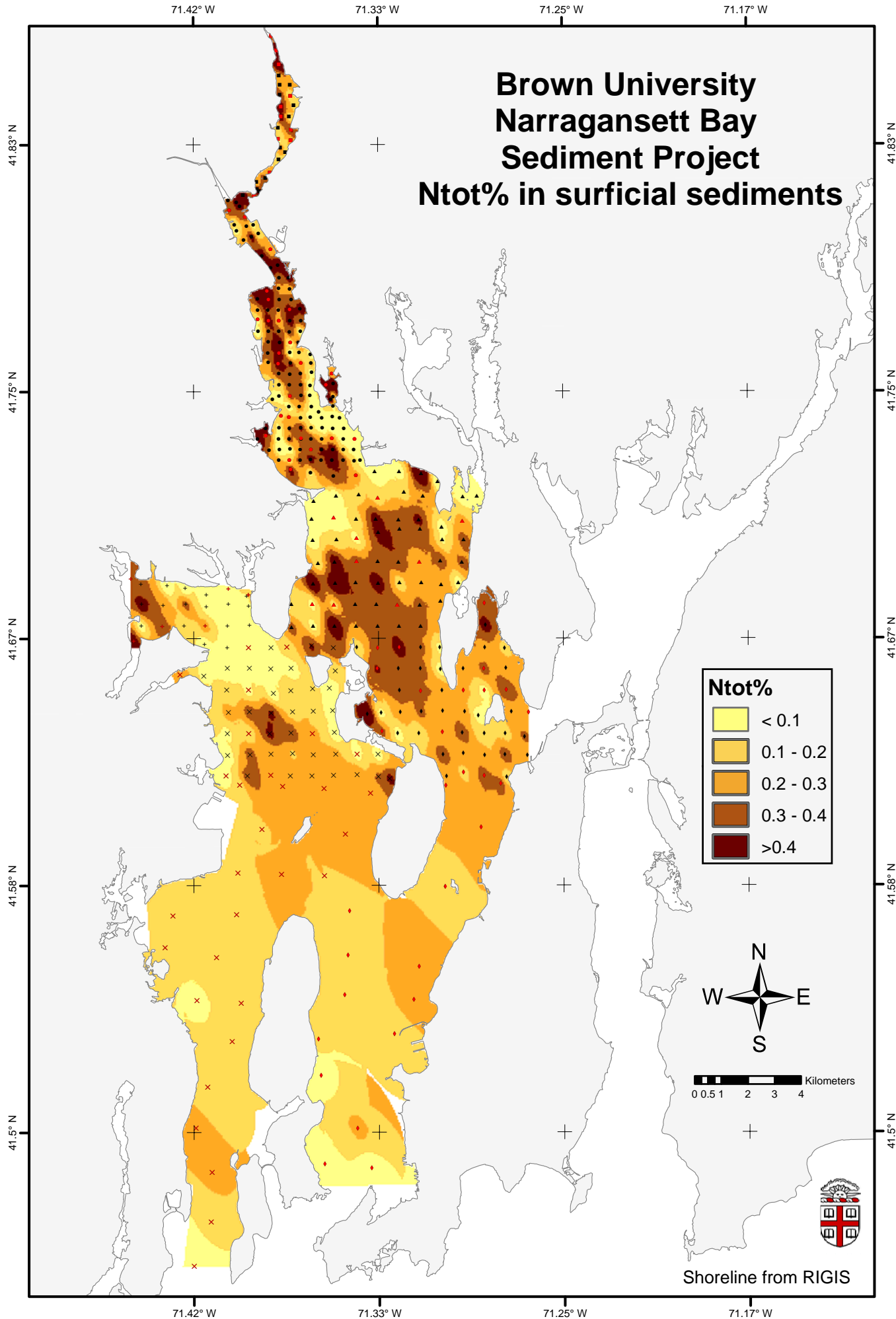
Grain Size Ternary Diagram



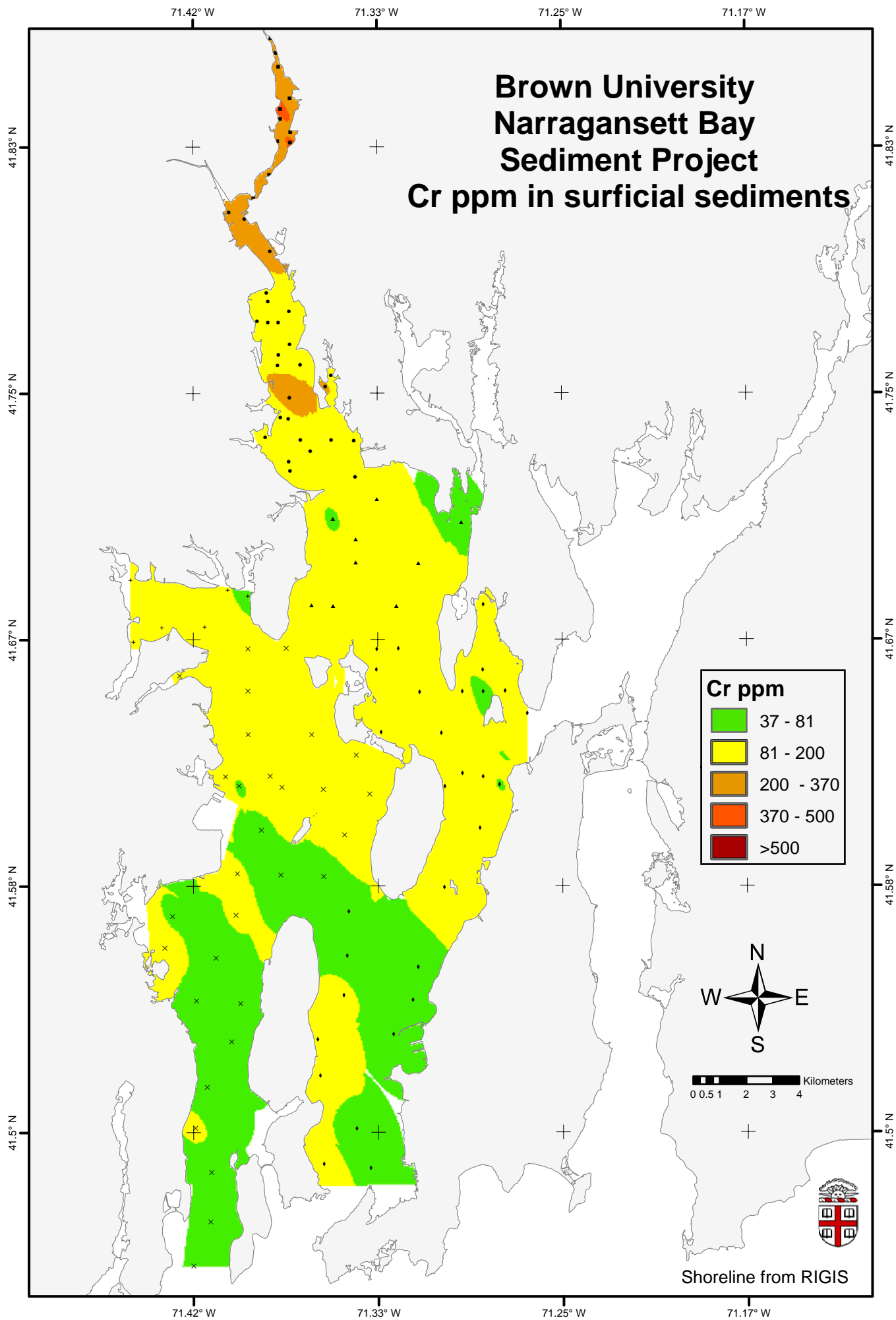
Brown University Narragansett Bay Sediment Project Corg% in surficial sediments



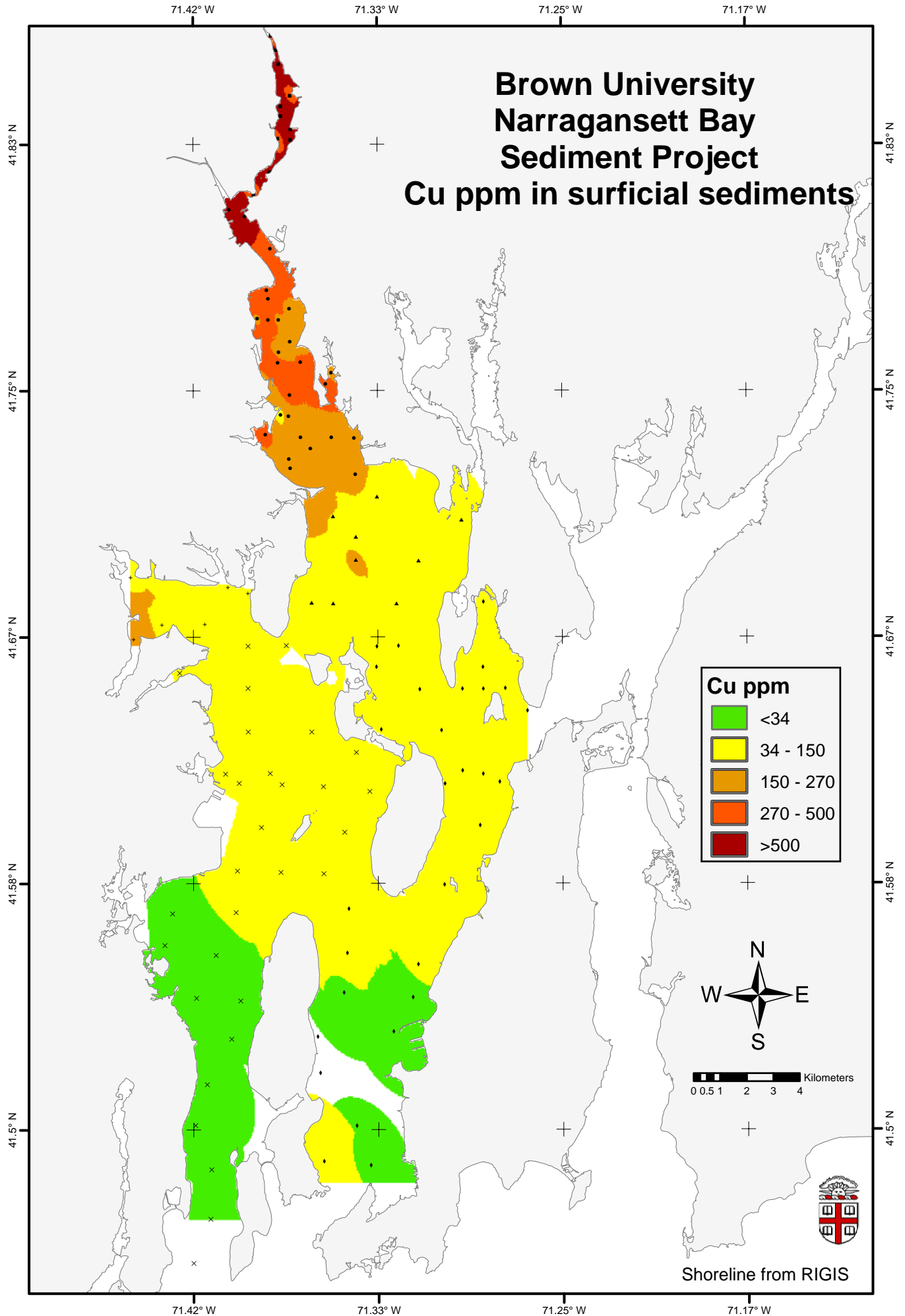
Brown University Narragansett Bay Sediment Project Ntot% in surficial sediments



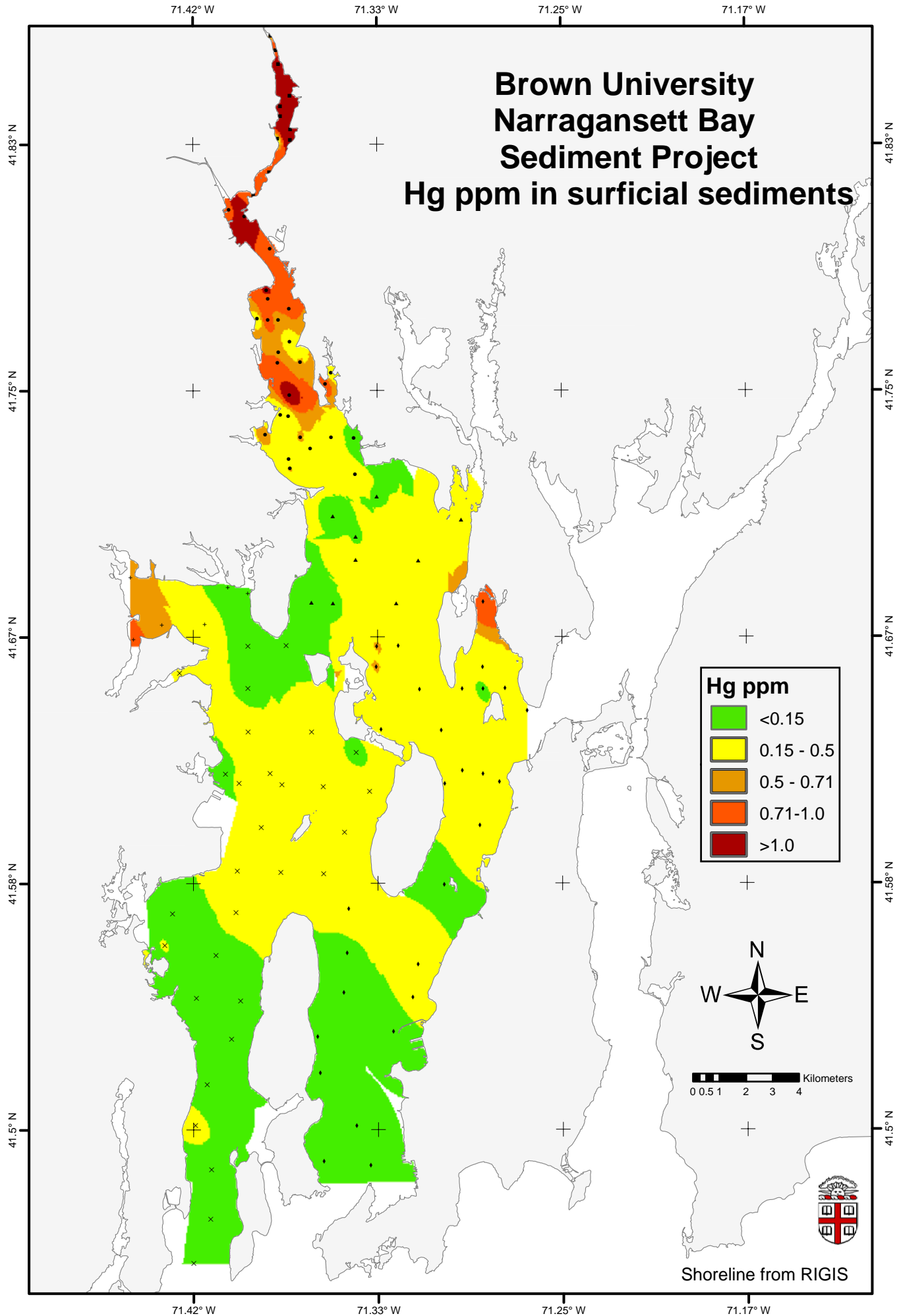
Brown University Narragansett Bay Sediment Project Cr ppm in surficial sediments



Brown University Narragansett Bay Sediment Project Cu ppm in surficial sediments

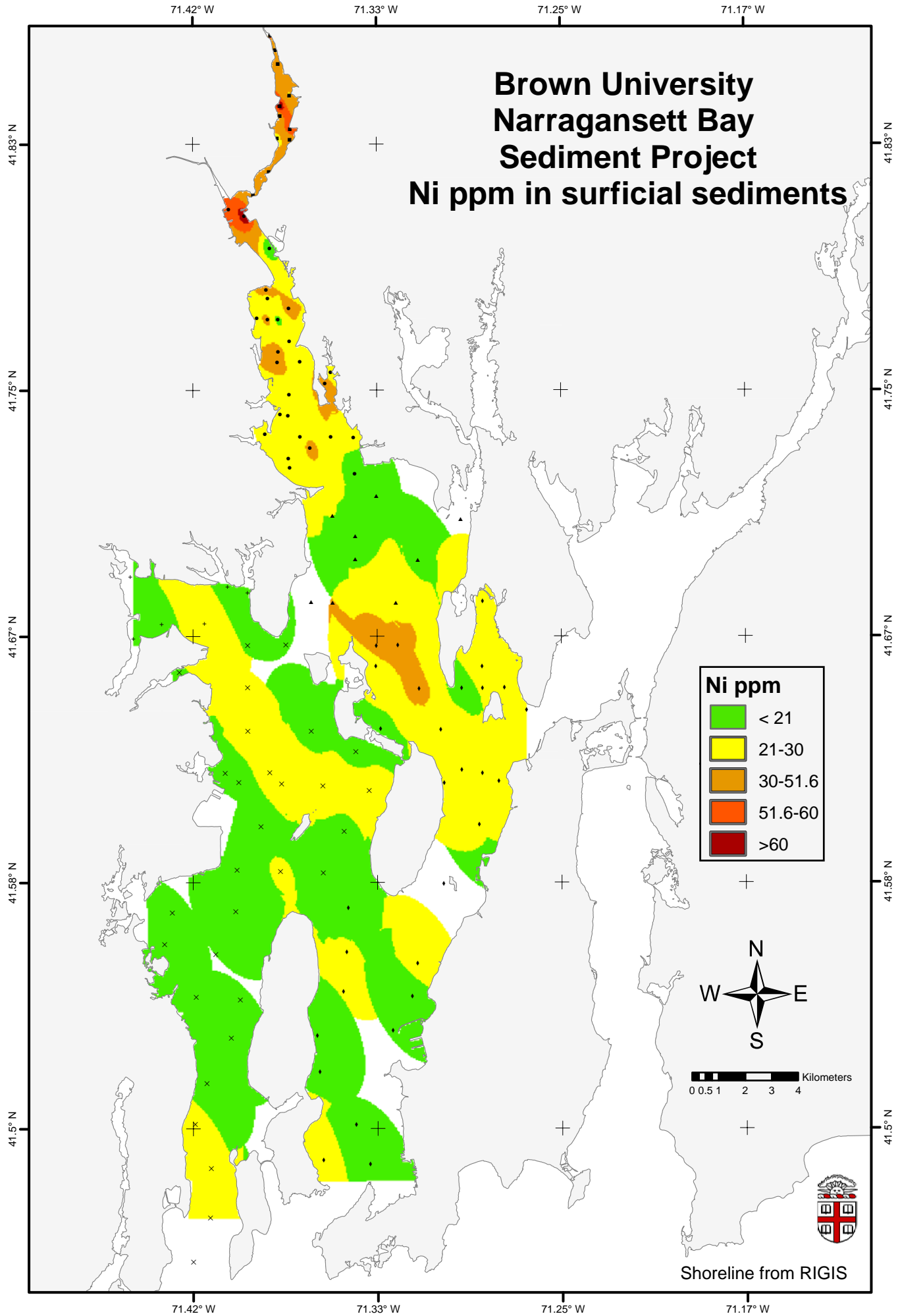


Brown University Narragansett Bay Sediment Project Hg ppm in surficial sediments



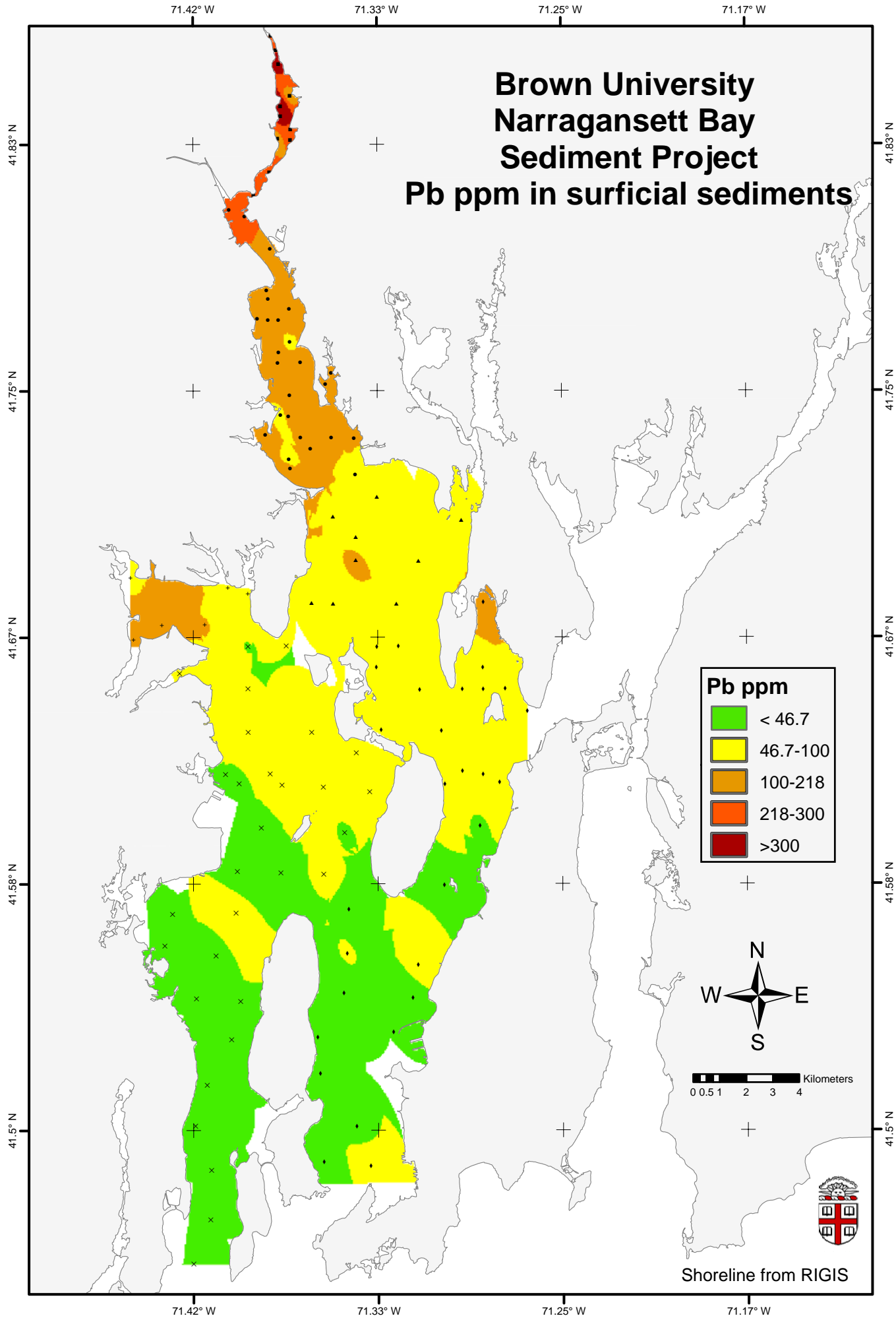
Shoreline from RIGIS

Brown University Narragansett Bay Sediment Project Ni ppm in surficial sediments

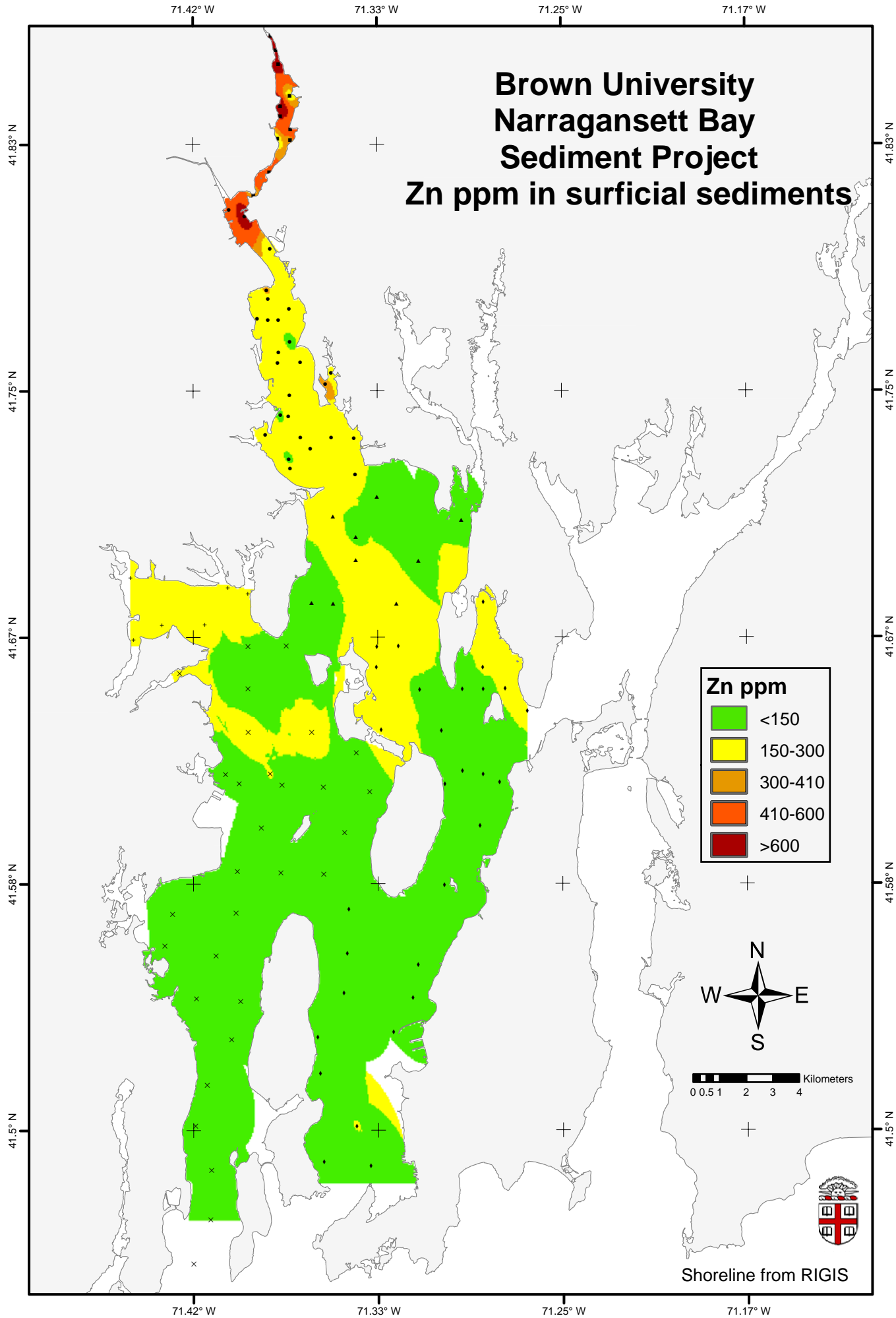


Shoreline from RIGIS

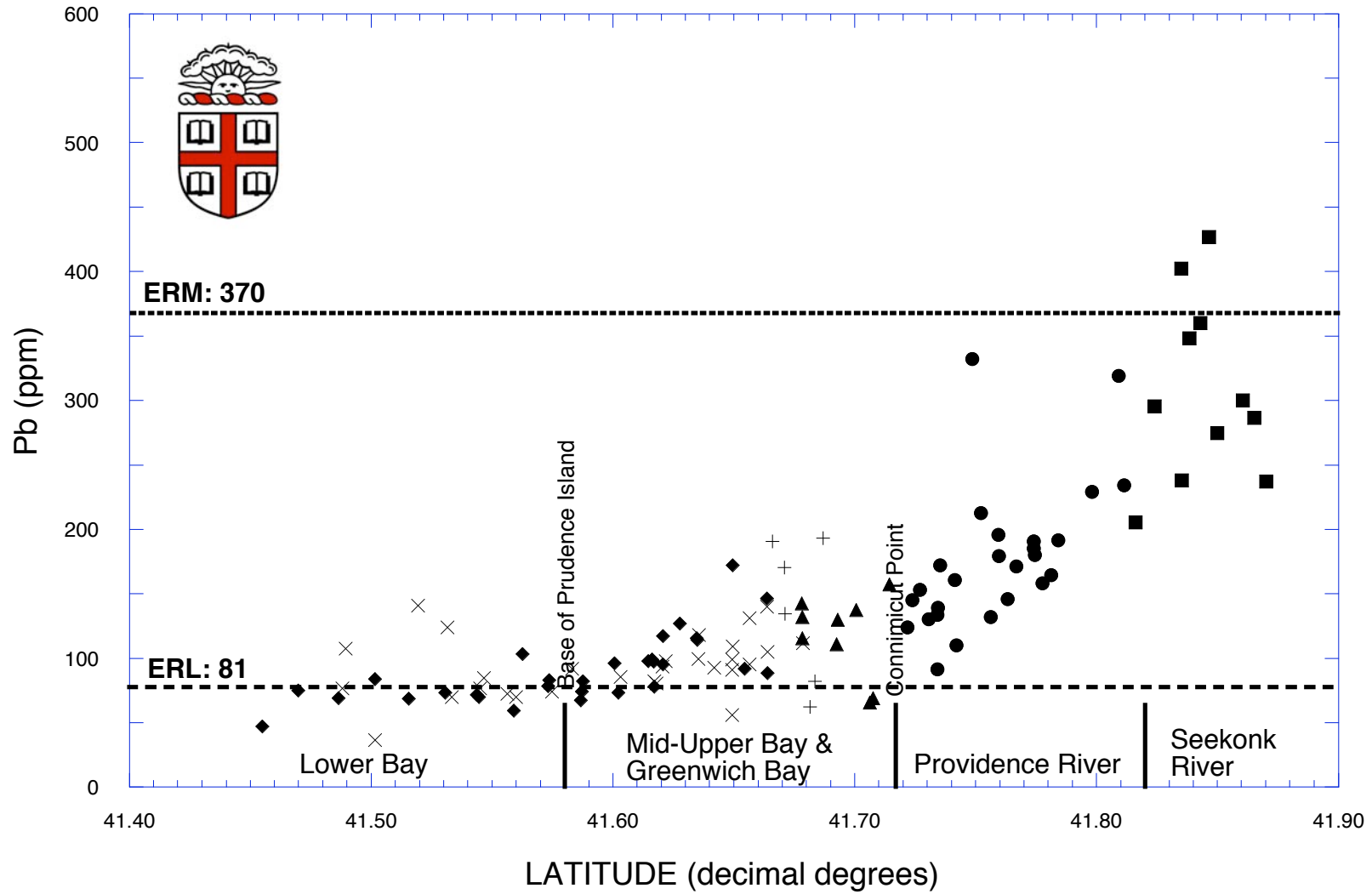
Brown University Narragansett Bay Sediment Project Pb ppm in surficial sediments



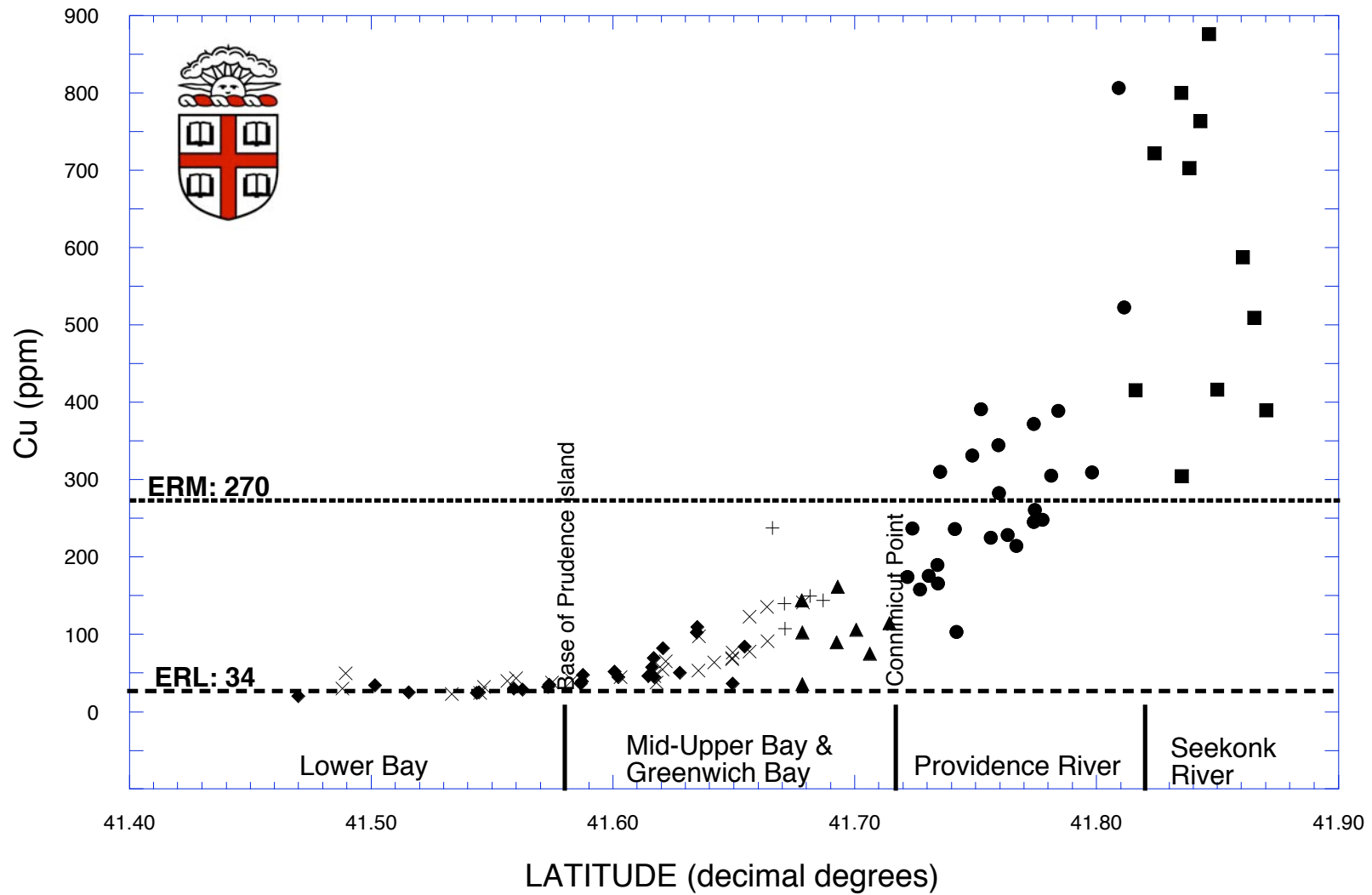
Brown University Narragansett Bay Sediment Project Zn ppm in surficial sediments



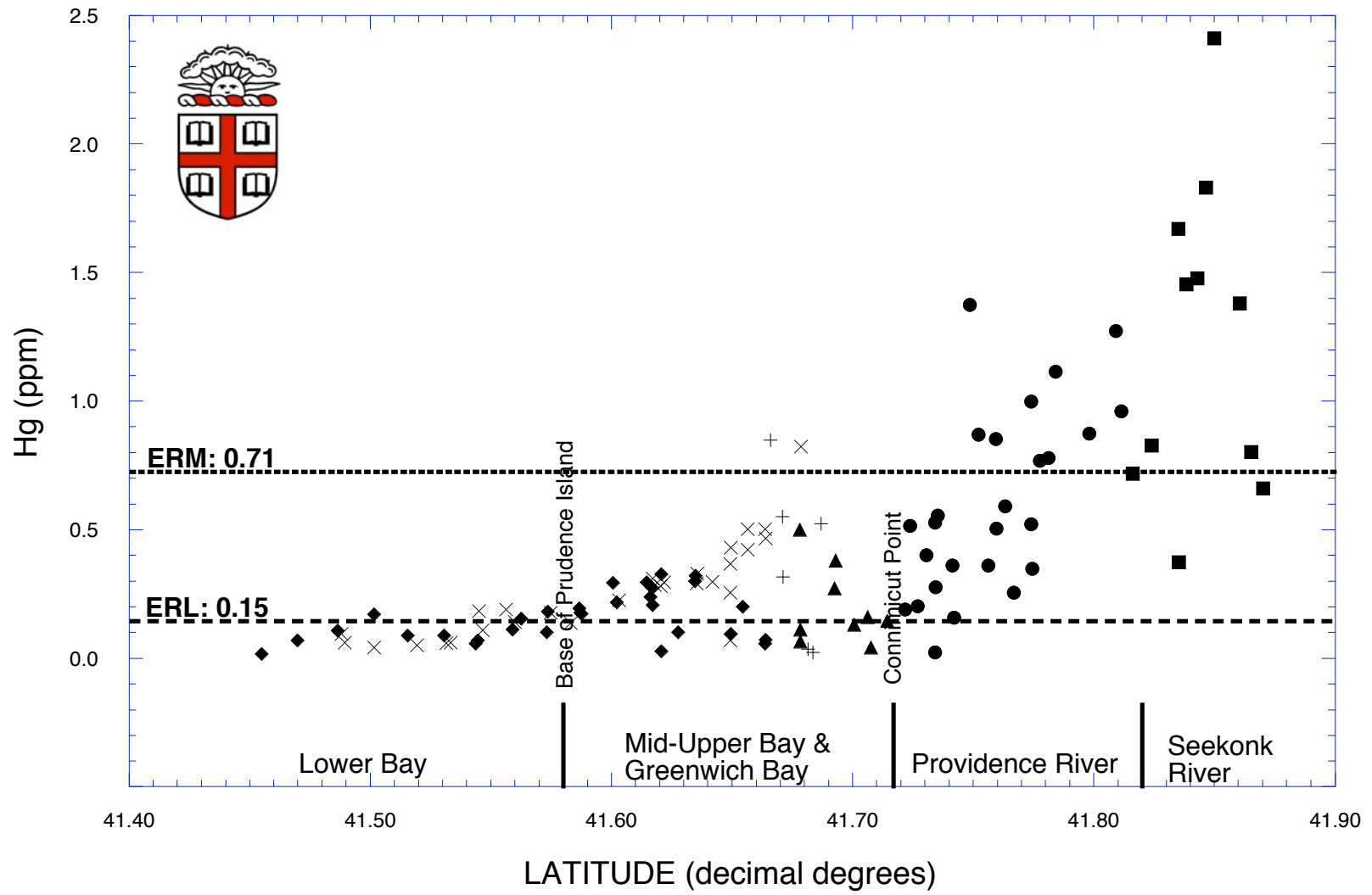
Chromium vs. Latitude - Surface Sediment Grab Samples



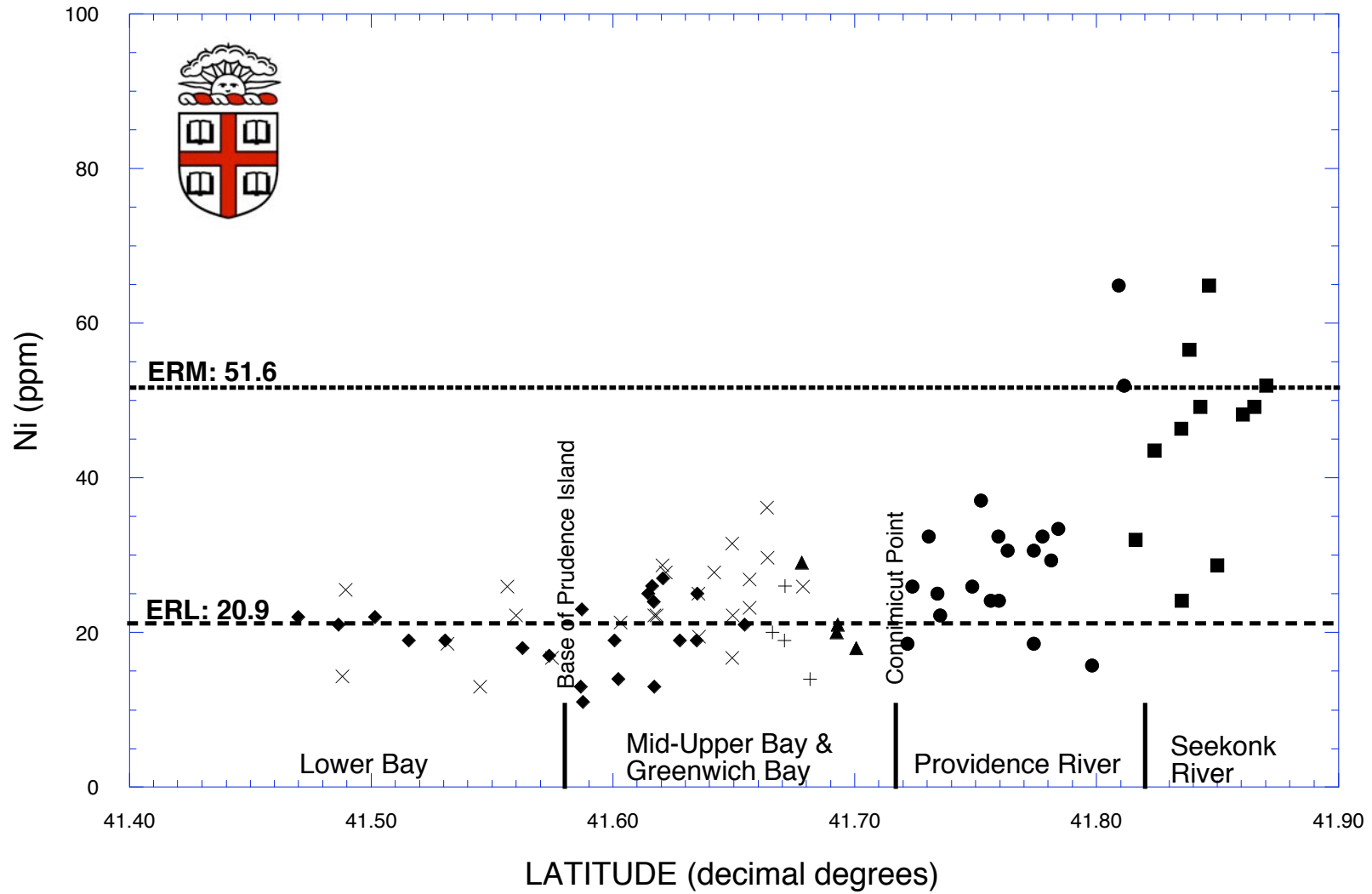
Copper vs. Latitude - Surface Sediment Grab Samples



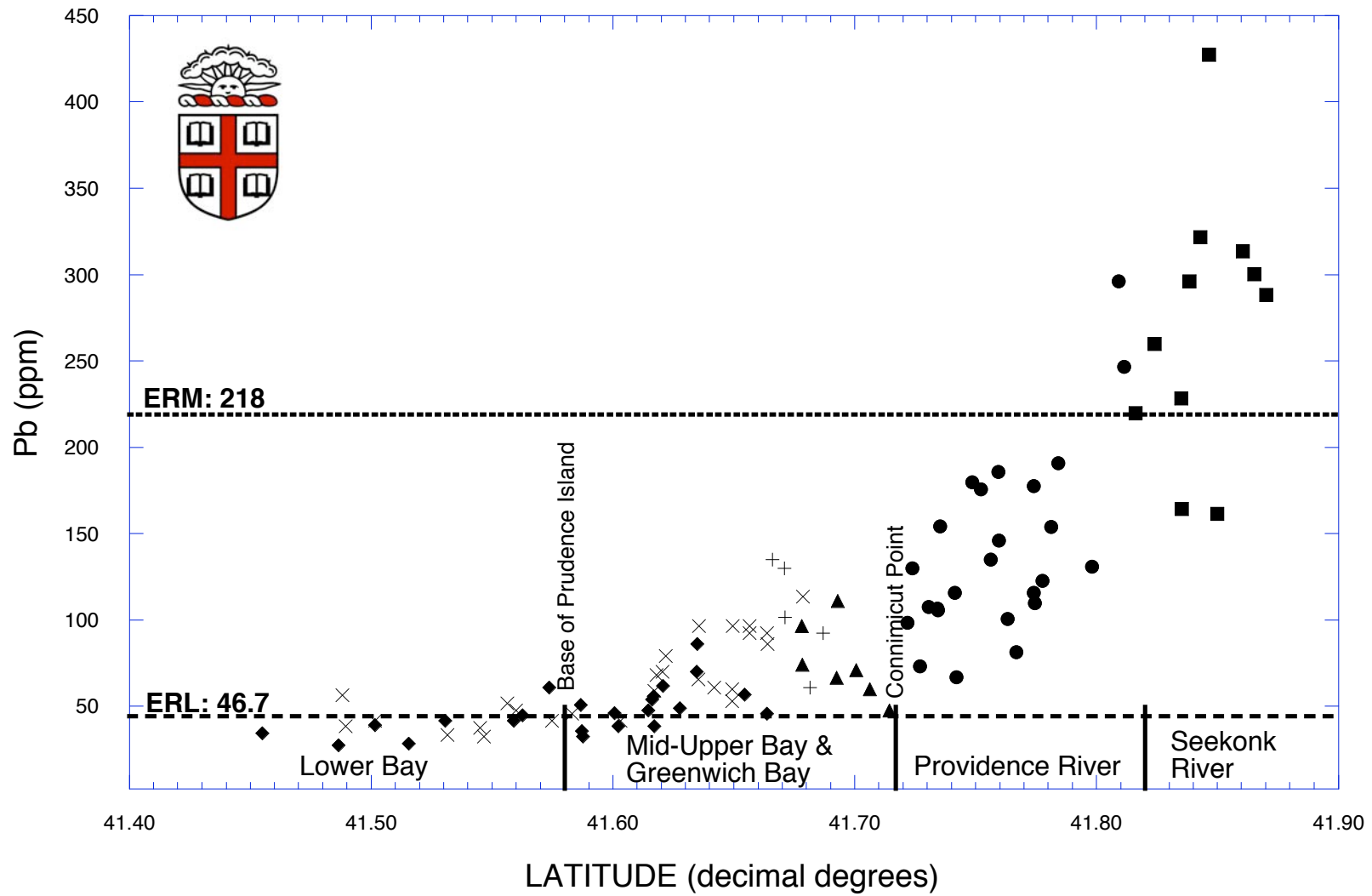
Mercury vs. Latitude - Surface Sediment Grab Samples



Nickel vs. Latitude - Surface Sediment Grab Samples



Lead vs. Latitude - Surface Sediment Grab Samples



Zinc vs. Latitude - Surface Sediment Grab Samples

