Appendix F Borrow Area Characteristics

Borrow Area 2 West

| | | I. | | | | HOLE NO. FIVE-01-0 | ì |
|-----------|------------------------------|---|------------------|------------------|-------------------|---|--------------------|
| DRIL | LING LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | |
| 1. PROJE | ECT FIR | E ISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | |
| | (Coordinate | | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| 2. LOCA | TION . | = 1222994 Y= 169484 | 12 MANUT | | IGVD | RIGNATION OF PRILL | ł |
| 3. DRILLI | NG AGENCY: Al | pine Ocean Seismic Survey Inc. | 12. MANUI | | | SIGNATION OF DRILL NEUMATIC VIBRACORE | |
| 4. HOLE I | NO. (As shown o | on drawing title and file number) | | | | DEN SAMPLES TAKEN | |
| | | FIVC-01-05 | 14. TOTAL | | | isturbed: 0 | ł |
| 5. NAME | OF DRILLER | JAMES COLE | 15. ELEVA | | | | 1 |
| 6. DIREC | TION OF HOLE | VERTICAL | 16. DATE I | HOLE | Started 09/28/ | Completed 01 16:48 | |
| 7. THICKI | NESS OF BURDE | :N 0.0 FT | | | | DLE -48.0 ft | |
| 8. DEPTH | H DRILLED INTO | ROCK N/A | 18. TOTAL | | | RY FOR BORING 100% OGIST SK/ML | 1 |
| | L DEPTH OF HOL | | 19. SIGNA | TORE OF | GEOLO | IGIST STATE | |
| ELEV. | HT43D | CLASSIFICATION OF MATE (Description) | ERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -48 | 0 | • | | | | • | 1 |
| -50.1 | 1 2 2 | SAND, medium grained, trace s clay, trace shell fragments, gray (SW-SM). | (5Y-5/1), | | 1 | Sample #1, Depth = 1.0' Mean (mm): 0.63, Phi Sorting: 1.30 Silt: 3.64% (SW) | |
| -50.9 | <u></u> | medium grained, little silt/clay, gra (SW-SM). | ay (5Y-5/1), | | | Ont. 0.0+/0 (OVV) | |
| | 3 1 | medium grained, small pockets of gray (5Y-3/1) silty clay at 3.1' and | | | | Sample #3, Depth = 3.5' | |
| | 1=::: | gravel, brownish gray (2.5Y-5/2 | | | 3 | Mean (mm): 0.59, Phi Sorting: 1.16 Silt: 1.35% (SW) | Dredged to -52.0' |
| -52.9 | 5 = | | | | | Siit. 1.35% (SW) | |
| -55 | 6 | medium grained, grayish brown, (SP). | (2.5Y-5/2), | | 4 | Sample #4, Depth = 6.0' Mean (mm): 0.44, Phi Sorting: 1.14 Silt: 2.78% (SW) | |
| -55.5 | 7 = | medium grained, trace silt/clay, tr | ace gravel, | | 3 | | |
| | 8 = 8 | grayish brown (2.5Y-5/2), (| SW) | | | | Cut Elevation -57. |
| | 10 H 10 H 11 H 12 H | SAND, medium grained, small of (5Y-4/1) pockets of silty clay at 12.8', grayish brown (2.5Y-5/2 | 10.7' and | | 5 | Sample #5, Depth = 10.0' Mean (mm): 0.35, Phi Sorting: 0.61 Silt: 3.08% (SP) | |
| -62.5 | 13 | | | | | | |
| | 15 | SAND, fine grained, trace silt/c brownish gray (2.5Y-6/2), (| | | 6 | Sample #6, Depth = 16.0' Mean (mm): 0.18, Phi Sorting: 0.84 | |
| -67.4 | 18 | | | | | Silt: 6.50% (SW-SM) | |
| | 20= | End of Boring | | | | | |
| | 21 | Expansion from 17.9. | | | | Note: This column contains laboratory data. | |
| | 22- | | | | | If nonotration is less than 200 | |
| | 20 | Note: 1) Soils are field visually classified in accordance with the | | | | If penetration is less than 20', refusal was met after less than 1' penetration occured in 3 minutes. | |
| | 24— | Unified Soil Classification System |). | | | | Į |
| | | | PROJE | CT: Fire Is | land | HOLE NUMBER: FIVC-01-05 | |

| | | | | | | HOLE NO. FIVE-01- | <u>'</u> |
|----------------------------------|---------------------|--|---------------|------------------|------------------|---|----------------------|
| DRILLING I | LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | |
| 1. PROJECT | FIRE | EISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | |
| 2. LOCATION (Co | | or Station) | 11. DATUI | | | N SHOWN (TBM or MSL) | |
| 2. LUCATION | X= | 1224402 Y= 169132 | 12. MANU | | IGVD R'S DES | SIGNATION OF DRILL | 1 |
| 3. DRILLING AGEN | NCY: Alp | ine Ocean Seismic Survey Inc. | | ALI | PINE PI | NEUMATIC VIBRACORE | 4 |
| 4. HOLE NO. (As | s shown or | n drawing title and file number) | | | | DEN SAMPLES TAKEN sturbed: 0 | |
| | | FIVC-01-12 | 14. TOTAL | | | | 1 |
| 5. NAME OF DRIL | LER | JAMES COLE | 15. ELEVA | | | | |
| 6. DIRECTION OF | HOLE | VERTICAL | 16. DATE | HOLE | Started 10/03/0 | Completed 11 12:53 | |
| 7. THICKNESS OF | BURDE | 1 0.0 FT | | | | LE -50.2 ft RY FOR BORING 84% | 4 |
| 8. DEPTH DRILLE | D INTO F | ROCK N/A | 19. SIGNA | | | | 1 |
| 9. TOTAL DEPTH | OF HOLE | 17.9 FT | | | | | 4 |
| ELEV. DEPTH | LEGEND | CLASSIFICATION OF MATE (Description) | ERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -50.2 | - 50,000 | 3 | | | | Sample #1, Depth = 1.0' | |
| 1 | | SAND, medium grained, trace s pocket of some shell hash from 1 very pale brown (10YR-7/3) | 1.6' to 1.8', | | 1 | Mean (mm): 0.52, Phi Sorting: 0.77 Silt: 2.86% (SP) | |
| -52 2 -53.1 | | SAND, medium grained, trace gr (5Y-6/1), (SW). | ravel, gray | | 2 | Sample #2, Depth = 2.4' Mean (mm): 0.80, Phi Sorting: 1.84 Silt: 4.37% (SW) | Dredged to -52.1' |
| -54.2 | | SAND, medium grained, little gr shell fragments, clay pocket at 3 silt, gray (5Y-6/1), (SW-S | 3.6', trace | | 3 | Sample #3, Depth = 3.3' Mean (mm): 0.54, Phi Sorting: 1.85 Silt: 6.69% (SW-SM) | |
| -55.2 | <u> </u> | SAND, fine grained, little silt, gra | | | 4 5 | Sample #4, Depth = 4.2' Mean (mm): 0.09, Phi Sorting: 0.75 | |
| 5 | | (SM). SAND, medium grained, some g (5Y-6/1), (SW). | ravel, gray | | | Silt: 40.21% (SM) Sample #5, Depth = 4.6' Mean (mm): 0.87, Phi Sorting: 2.02 | |
| 7 | | a a a a a a a a a a a a a a a a a a a | | | | Silt: 3.52% (SW) Sample #6, Depth = 8.0' | - Cut Elevation -57. |
| 7 8 9 | | SAND, medium to fine graine | ed, gray | | 6 | Mean (mm): 0.25, Phi Sorting: 0.89 Silt: 4.30% (SP) | |
| 11 12 13 | | (5Y-6/1), (SP). | | | 7 | Sample #7, Depth = 12.0' Mean (mm): 0.22, Phi Sorting: 0.79 Silt: 2.93% (SP) | |
| -65.2 15 | 3 | | | | | | |
| 16 | mhmhm | No Recovery | | | | | |
| -68.1 18 | | End of Boring | | + | | | |
| 19 | | End of Borling | | | | | |
| 20 | 1 | | | | | Note: | |
| 18 19 20 21 22 23 | Imilimi | Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System | | | | This column contains laboratory data If penetration is less than 20', refusal was met after less than 1' penetration occured in 3 minutes. | 3. |
| . 27 | | | | | | | |

| DRIL | LING LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 |] |
|-----------|--|---|------------|------------------|--------------------|---|----------------------|
| 1. PROJE | CT FIRF | ISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | |
| | (Coordinates of | | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| 2. LOCA | X= 1 | 1223533 Y= 168604 | 12. MANUF | | IGVD R'S DES | SIGNATION OF DRILL | |
| 3. DRILLI | · | ne Ocean Seismic Survey Inc. | | | | NEUMATIC VIBRACORE | 1 |
| 4. HOLE | NO. (As shown on | drawing title and file number) | | | | DEN SAMPLES TAKEN sturbed: 0 | |
| - NAME | OF DRU LED | FIVC-01-15 | 14. TOTAL | | | | |
| | | JAMES COLE | 15. ELEVA | | | | |
| 6. DIRECT | TION OF HOLE | VERTICAL | 16. DATE I | | Started 10/04/0 | | |
| 7. THICK | NESS OF BURDEN | 10.0 FT | - | | | LE -50.4 ft RY FOR BORING 100% | |
| | I DRILLED INTO R | | 19. SIGNA | TURE OF | GEOLO | GIST SK/ML | |
| 9. TOTAL | DEPTH OF HOLE | 11.8 FT | | | | | ł |
| ELEV. | DEPTH CE | CLASSIFICATION OF MATER (Description) | RIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -50.4 | 0 | | | | | | Dredged to -50.1' |
| -52.9 | 1 2 2 | SAND, medium grained, trace fragments, very pale brown (10YR- | | | 1 | Sample #1, Depth = 1.2' Mean (mm): 0.40, Phi Sorting: 0.74 Silt: 3.11% (SP) | |
| -54.1 | 3 = | SAND, fine grained, gray (5Y-6/1 |), (SP). | | 2 | Sample #2, Depth = 3.3' Mean (mm): 0.17, Phi Sorting: 0.81 Silt: 6.91% (SW-SM) | |
| -55.1 | 4 | SAND, fine grained, little silt, gray (SM). | (5Y-5/1), | | 3 | Sample #3, Depth = 4.3' Mean (mm): 0.16, Phi Sorting: 1.40 | |
| | 5 6 6 | GRAVELLY SAND, medium grain whole shell, little shell fragments pocket @ 4.8', gray (5Y-6/1), (| s, clay | | 4 | Silt: 17.75% (SM) Sample #4, Depth = 6.0' Moan (mm): 0.77, Phi Sorting: 1.74 | Cut Elevation -57.0' |
| -58.2 | 7 | | | | | Silt: 2.04% (SW) | |
| | 91 | CAND for an include the control for | | | 5 | Sample #5, Depth = 9.2' Mean (mm): 0.33, Phi Sorting: 0.67 Silt: 1.14% (SP) | |
| | 11 12 12 | SAND, fine grained, trace shell fra trace gravel, gray (5Y-6/1), (\$ | | | 6 | Sample #6, Depth = 11.5' Mean (mm): 0.29, Phi Sorting: 0.69 Silt: 1.33% (SP) | |
| -64.4 | 13 | | | | | , Ont. 1.5570 (OF) | |
| 1 | | End of Boring | | | | | |
| | 15 16 1 17 1 17 1 17 1 17 1 17 1 17 1 17 | | | | | | |
| | 18 | | | | | | |
| | 20- | | | | | | |
| | 21 | Expansion from 11.8'. | | | | Note: This column contains laboratory data. | |
| | 22 | Note: 1) Soils are field visually classified in accordance with the | | | | If penetration is less than 20', refusal was met after less than 1' penetration occured in 3 minutes. | |
| | 24— | Unified Soil Classification System. | DDO IE | CT: Fire Is | and | HOLE NUMBER: FIVC-01-15 | J |

| | | - | | | | | HOLE NO. FIVC-01-1 | | | |
|----------------|---|--------|--|--|------------------|-------------------------------|---|--|--|--|
| DRIL | LING LO | G | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | | | |
| 1. PROJE | СТ | FIRE | ISLAND SAND STUDY | 10. SIZE A | | | | | | |
| 2. LOCA | (Coordii | | or Station) 1223517 Y= 168626 | 11. DATUN | | EVATIO IGVD | N SHOWN ^{(TBM} or MSL) | | | |
| 3. DRILLI | NG AGENCY | | ne Ocean Seismic Survey Inc. | 12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE | | | | | | |
| 4. HOLE | NO. (As sho | wn on | drawing title and file number) FIVC-01-15A | | | | DEN SAMPLES TAKEN isturbed: 0 | | | |
| 5 NAME | OF DRILLER | , | 110-01-10A | 14. TOTAL | NO. OF | CORE B | OXES | | | |
| | | | JAMES COLE | 15. ELEVA | | | | | | |
| 6. DIRECT | DIRECTION OF HOLE VERTICAL THICKNESS OF BURDEN 0.0 FT | | | | | Started 10/04/0 P OF HO | Completed 01 16:02 LE -50.6 ft | | | |
| 7. THICK | THICKNESS OF BURDEN 0.0 FT | | | | | | RY FOR BORING 100% | | | |
| | 8. DEPTH DRILLED INTO ROCK N/A 9. TOTAL DEPTH OF HOLE 17.0 FT | | | | TURE OF | GEOLO | GIST SK/ML | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATER (Description) | IALS | CORE REC % | SAMPLE | REMARKS | | | |
| -50.6 | 0 | | | | | | | | | |
| | 1 1 2 1 | | JET | | | | | | | |
| -53 | 2 | | | | | | | | | |
| | 3 = 1 | | SAND, fine grained, gray (5Y-6/1 |), (SP). | | 15#2 | | | | |
| -54.5 -55.3 | 4 = 1 | · 11 | • SAND, medium grained, gray (5Y-6 | 5/1), (SP). | | | | | | |
| - 55.5 | 5 | | GRAVELLY SAND, little shell frag | ments, | 1 | 15#4 | | | | |
| -57.1 | 6 | | gray (5Y-5/1), (SW). | | | | | | | |
| -58.5 | 7 = 1 | | SAND, fine grained, little silt, clay between 13.8' and 14', gray (5Y (SW-SM). | | | 10 | Sample #10, Depth = 7.2' Mean (mm): 0.45, Phi Sorting: 2.51 Silt: 9.84% (SW-SM) | | | |
| -60.6 | 91 | | SAND, fine to medium grained, lig (10YR-7/2), (SP). | ht gray | | 11 | Sample #11 Depth = 8.9' Mean (mm): 0.36, Phi Sorting: 0.92 Silt: 2.75% (SP) | | | |
| | 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - | | fine grained, gray (5Y-6/1), (S | SP). | | 15#6 | | | | |
| -63.5 | 13 | | fine sand, light gray (5Y-7/1), (| SP). | | 13 | Sample #13, Depth = 13.2' Mean (mm): 0.26, Phi Sorting: 0.51 | | | |
| -64.3 | 14 | | SAND, fine grained, trace silt, gray (SW-SM). | (5Y-6/1), | | 14 | Silt: 1.78% (SP) Sample #14, Depth = 14.2' | | | |
| -65.4 | 15 | •• | <u>'</u> | | | | Mean (mm): 0.18, Phi Sorting: 0.84 Silt: 7.75% (SW-SM) | | | |
| | 16 | | SAND, fine grained, light gray, (5 (SP). | Y-7/1), | | 13 | | | | |
| -67.6 | 17 = 17 | | End of Boring | | | | | | | |
| | 18 | | Lite of Boiling | | | | | | | |
| | 19- | | | | | | | | | |
| | 20= | | | | | | | | | |
| | 21 = | | | | | | Note: | | | |
| | 22= | | | | | | This column contains laboratory data. | | | |
| | Note: | | | | | | If penetration is less than 20', refusal was met after less than 1' | | | |
| | 24 | | Soils are field visually classified in accordance with the Unified Soil Classification System. | | | | | | | |
| | | | | PROJE | CT: Fire Isl | land | HOLE NUMBER: FIVC-01-15A | | | |

| DRIL | LING L | og | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | |
|----------------|------------|------------|--|------------|------------------|------------------|---|---------------------|
| 1. PROJE | СТ | FIRE | ISLAND SAND STUDY | 10. SIZE A | | | | 1 |
| 2. LOCA | (Coor | rdinates o | or Station) | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| | | | 1225494 Y= 169435 | 12. MANUF | | IGVD R'S DES | SIGNATION OF DRILL | 1 |
| 3. DRILLI | NG AGENC | Y: Alpir | ne Ocean Seismic Survey Inc. | | ALI | PINE PI | NEUMATIC VIBRACORE | |
| 4. HOLE | NO. (As s | hown on | drawing title and file number) | | | | DEN SAMPLES TAKEN isturbed: 0 | |
| | | | FIVC-01-16 | 14. TOTAL | | | | 1 |
| 5. NAME | OF DRILLE | ER | JAMES COLE | 15. ELEVA | | | | |
| 6. DIRECT | TION OF H | OLE | VERTICAL | 16. DATE I | HOLE | Started 10/04/0 | Completed 01 14:54 | |
| 7. THICK | NESS OF B | URDEN | 0.0 FT | | | | DLE -51.5 ft RY FOR BORING 97% | |
| 8. DEPTH | I DRILLED | INTO R | OCK N/A | 19. SIGNA | | | | 1 |
| 9. TOTAL | DEPTH OI | F HOLE | 19.1 FT | | | | I | Į. |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATER (Description) | RIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -51.5 | 0- | - | SAND, medium grained, clay poc | ket from | | | Complette Donth 4 O | |
| -52.7 | 1 | | 0.6' to 0.8', light gray (10YR-7/2 | | | 1 | Sample #1, Depth = 1.0' Mean (mm): 0.25, Phi Sorting: 1.85 | |
| | | /// | SAND, fine grained, gray, (5Y-5/ CLAY, dark gray (5Y-4/1), (0 | | | 6 | Silt:11.75 % (SW-SM) | |
| -53.9 | 2- | | GRAVELLY SAND, medium grain | | | | | |
| | 3 | | (5Y-6/1), (SW). SAND, medium to fine grained, or | gravish | | 4 | Sample #4, Depth = 3.0' Mean (mm): 0.50, Phi Sorting: 0.64 | |
| -55.8 | 4- | | brown (10YR-5/2), (SP). | | | | Silt: 1.21% (SP) | |
| -58.2 | 5 - | | fine to medium grained, grayish (10YR-5/2), (SP). | brown | | 5 | Sample #5, Depth = 5.5' Mean (mm): 0.26, Phi Sorting: 0.53 Silt: 2.29% (SP) | |
| | 7- | | medium grained, grayish brown, (1 (SP). | 0YR-5/2), | | 6 | Sample #6, Depth = 7.5' Mean (mm): 0.55, Phi Sorting: 1.00 | Dredged to -59.5' |
| 60 | 9 | | fine grained, light brownish g | ray, | | | Silt: 2.80% (SP) | Cut Elevation -59.8 |
| -61.5 | 10 | | (10YR-6/2), (SP). | | | | | |
| | 10- | | | | | | | |
| | 12 | | | | | | | |
| | 13 | | | | | | Correla #7 Donath 0.01 | |
| | 14 | | fine grained, trace organics from | | | 7 | Sample #7, Depth = 9.0' Mean (mm): 0.18, Phi Sorting: 0.79 | |
| | 15 | | 17.3', gray (5Y-6/1), (SP) | - | | | Silt: 4.86% (SP) | |
| | | | | | | | | |
| | 16 | | | | | | | |
| | 17 | | | | | | | |
| | 18 | | | | | | | |
| -70.2 -70.6 | | | NO DECOVEDY | | | | | |
| 1 3.0 | 19 | | NO RECOVERY End of Boring | | 1 | | | |
| | 20 | | 3 | | | | Note: This column contains laboratory data. | |
| | 21 | 1 | | | | | | |
| | 22 | 1 | Note: | | | | If penetration is less than 20', refusal was met after less than 1' | |
| | | 1 | Soils are field visually classified in accordance with the | | | | penetration occured in 3 minutes. | |
| | 23 | 1 | Unified Soil Classification System. | | | | | |
| | 24 | | | | | | | |
| | | | | PROJE | CT: Fire Is | land | HOLE NUMBER: FIVC-01-16 |] |

Borrow Area 2 East

| | | | | | | HOLE NO. FIVE-01-0 | ì |
|-----------|---|---|------------------------|------------------|---------|--|---------------------|
| DRIL | LING LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | I |
| 1. PROJE | ECT FIRI | E ISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | |
| | (Coordinates | | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| 2. LOCA | TION | 1245975 Y= 177717 | 40.000 | | IGVD | SIGNATION OF DRILL | ł |
| 3. DRILLI | NG AGENCY: Alp | nine Ocean Seismic Survey Inc. | 12. MANUF | | | | |
| 4. HOLE I | NO. (As shown o | n drawing title and file number) | | | | DEN SAMPLES TAKEN | |
| | | FIVC-01-08 | | | | isturbed: 0 | I |
| 5. NAME | OF DRILLER | JAMES COLE | 14. TOTAL 15. ELEVA | | | | |
| e DIDEC | TION OF HOLE | O, MILEO COLL | 16. DATE I | | Started | Completed | ł |
| o. Direc | HOIVOI HOLL | VERTICAL | | | 10/02/ | 01 14:31 | |
| 7. THICK | NESS OF BURDE | N 0.0 FT | | | | DLE -40.5 ft RY FOR BORING 100% | - |
| 8. DEPTH | H DRILLED INTO | ROCK N/A | 19. SIGNA | | | | 1 |
| 9. TOTAL | L DEPTH OF HOL | E 14.7 FT | lor oronax | | | | |
| ELEV. | DEPTH HT93D | CLASSIFICATION OF MATER (Description) | RIALS | CORE REC % | SAMPLE | REMARKS | |
| -40.5 | 0 = 0.000 | | | | | | 1 |
| | ■ 20000 | CAND madisma and | o breve | | | | Dredged to -41.2' |
| -42.8 | 1 2 | SAND, medium grained, very pal (10YR-8/3), (SP). | e brown | | 1 | Sample #1, Depth = 1.0' Mean (mm): 0.48, Phi Sorting: 0.63 Silt: 0.84% (SP) | |
| | | | | | | | |
| | 2 3 3 4 4 5 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 | medium to fine grained, light gray (SP). | (5Y-7/2), | | 2 | Sample #2, Depth = 3.5' Mean (mm): 0.35, Phi Sorting: 0.50 | |
| 45.7 | | 9 8 | | | | Silt: 1.14% (SP) | Cut Elevation -44.9 |
| -45.7 | 5 | M | P. 1. | - | | | |
| -47.1 | 6 = | fine grained, trace shell fragments, (5Y-7/2), (SP). | light gray | | 3 | Sample #3, Depth = 5.8' Mean (mm): 0.26, Phi Sorting: 1.04 Silt: 5.95% (SW-SM) | |
| -49.2 | 7 | fine grained, little silt, light gray ((SM). | 5Y-7/2), | | 4 | Sample #4, Depth = 8.0' Mean (mm): 0.10, Phi Sorting: 0.61 Silt: 19.66% (SM) | |
| -49.7 | 9 471 | SILTY CLAY, gray (5Y-5/1), (N | IL-CL). | | | | |
| -51.1 | 10 | SAND, medium to fine grained sa silt, trace gravel, trace shell fragme | and, little | | 6 | Sample #6, Depth = 9.7' Mean (mm): 0.31, Phi Sorting: 1.91 | |
| 01.1 | 11 1 | SAND, medium grained, trace | shell | | | Silt: 8.70% (SW-SM) | |
| -56.6 | 13 T | fragments, light gray (5Ý-5/1), | (SP). | | 8 | Sample #8, Depth = 15.0' Mean (mm): 0.44, Phi Sorting: 0.82 Silt: 0.86% (SP) | |
| | 17 | medium to fine grained, light gray (SP). | (5Y-7/1), | | 9 | Sample #9, Depth = 17.5' Mean (mm): 0.40, Phi Sorting: 0.89 Silt: 1.46% (SP) | |
| -58.8 | 18= | 5.1.75 | | | | , , | |
| | 21 - 22 - 23 - 24 - 24 - 24 - 24 - 24 - 24 | End of Boring | | | | | |
| | 20= | | | | | | |
| | 21 | Expansion from 14.7'. | | | | Note: | |
| | 22 | Note: | | | | This column contains laboratory data. | |
| | " = = | Soils are field visually classified in accordance with the | | | | If penetration is less than 20', | |
| | 23 | Unified Soil Classification System. | | | | refusal was met after less than 1' penetration occurred in 3 minutes. | |
| | 24 | | | | | | |
| | | | | CT: Fire Is | | HOLE NUMBER: FIVC-01-08 | Į |
| | | | 1 | | | 1 | |

PROJECT: Fire Island

| | | | | | | | HOLE NO. FIVC-01-1 | 9 | | |
|---------------------|--|-----------|--|--------------|---|--------------------|---|--|--|--|
| DRILI | LING LO | G | DIVISION: | INSTALL | ATION: | | SHEET 1 of 1 | | | |
| 1. PROJE | СТ | FIRE | ISLAND SAND STUDY | 10. SIZE | AND TYPE | OF BIT | 3 5/8" | | | |
| | (Coordi | nates o | or Station) | 11. DATU | | | N SHOWN (TBM or MSL) | | | |
| 2. LOCAT 3. DRILLIN | | | 1247714 Y= 177425 ne Ocean Seismic Survey Inc. | 12. MANU | NGVD 12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE | | | | | |
| 4. HOLE N | NO. (As sho | own on | drawing title and file number) | | IO. OF OVI | ERBURI | DEN SAMPLES TAKEN isturbed: 0 | | | |
| | | | FIVC-01-10 | | L NO. OF | | | 1 | | |
| 5. NAME | OF DRILLEF | ₹ . | JAMES COLE | 15. ELEV | ATION GR | OUND V | VATER |] | | |
| 6. DIRECT | TION OF HOI | -E | VERTICAL | 16. DATE | | Started 10/02/0 | Completed 01 10:49 DLE -40.4 ft | _ | | |
| 7. THICKN | IESS OF BU | RDEN | 0.0 FT | | | | RY FOR BORING 100% | 1 | | |
| | DEPTH OF | | | 19. SIGN | ATURE OF | GEOLO | GIST SK/ML | | | |
| ELEV. | DEPTH OF | LEGEND OF | CLASSIFICATION OF MATE (Description) | RIALS | CORE REC % | SAMPLE | REMARKS | | | |
| -40.4 | 0 | | | | | | | 1 | | |
| -42.4 | | | SAND, fine to medium grained, li (10YR-7/2), (SP). | ight gray | | 1 | Sample #1, Depth = 1.0' Mean (mm): 0.44, Phi Sorting: 0.47 Silt: 0.59% (SP) | | | |
| | 2 | | SAND, medium grained, trace fragments, light gray (10YR-7/2 | | | 2 | Sample #2, Depth = 3.5' Mean (mm): 0.65, Phi Sorting: 1.14 Silt: 1.20% (SW) | | | |
| -45.6 | 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | D 1 1/2 40 | | |
| | 8= | | SAND, fine to medium grained, li (10YR-7/2), (SP). | ight gray | | 4 | Sample #4, Depth = 9.5' Mean (mm): 0.30. Phi Sorting: 0.58 | Dredged to -48Cut Elevation | | |
| | 9 10 10 | | | | | | Silt: 2.10% (SP) | | | |
| -51.8 | 11 = | *1*1 | | | | | | | | |
| -54.5 | 12 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14 | | SAND, fine grained, trace shell fra little silt, 1" clay pockets at 13.4' a gray (5Y-6/1), (SM). | | | 5 | Sample #5, Depth = 13.2' Mean (mm): 0.16, Phi Sorting: 1.23 Silt: 14.49% (SM) | | | |
| -56.1 | 15 | | SAND, medium grained, little gra 1", trace shell fragments, clay p 14.7', gray (5Y-6/1), (SW | ocket at | | 6 | Sample #6, Depth = 14.6' Mean (mm): 0.95, Phi Sorting: 2.20 Silt: 3.84% (SW) | | | |
| -57.6 | 16 - | | SAND, fine grained, light gray (5Y | 7-7/1), (SP) | | 7 | Sample #7, Depth = 16.3' Mean (mm): 0.29, Phi Sorting: 1.05 Silt: 2.37% (SP) | | | |
| | | | End of Boring | | | | | | | |
| | 18 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 21 | | Expansion from 14.6'. Note: | | | | Note: This column contains laboratory data. | | | |
| | 23 | | Soils are field visually classified in accordance with the Unified Soil Classification System. | | | | If penetration is less than 20', refusal was met after less than 1' | | | |
| | 24 | | | | | | penetration occurred in 3 minutes. | | | |

| | | | | | | HOLE NO. FIVE-01-1 | ì |
|-----------|--|---|----------------------------|------------------|------------------|---|--|
| DRIL | LING LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | l |
| 1. PROJE | ECT FIR | E ISLAND SAND STUDY | 10. SIZE A | | | | |
| 2. LOCA | (Coordinate | s or Station) | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| 2. LOCA | TION X: | = 1246778 Y= 177030 | 12. MANUF | | IGVD R'S DES | SIGNATION OF DRILL | 1 |
| 3. DRILLI | NG AGENCY: Al | pine Ocean Seismic Survey Inc. | | | | NEUMATIC VIBRACORE | I |
| 4. HOLE I | NO. (As shown | on drawing title and file number) | | | | DEN SAMPLES TAKEN | |
| | | FIVC-01-13 | 14. TOTAL | | | oxes | ł |
| 5. NAME | OF DRILLER | JAMES COLE | 15. ELEVA | | | | 1 |
| 6. DIREC | TION OF HOLE | VERTICAL | 16. DATE I | HOLE | Started | Completed 01 9:46 | 1 |
| | | | 17. ELEVA | TION TO | 10/04/0 OF HC | DLE -42.6 ft | 1 |
| | NESS OF BURDE | | | | | RY FOR BORING 100% | |
| | H DRILLED INTO L DEPTH OF HOI | | 19. SIGNA | TURE OF | GEOLO | GIST SK/ML | |
| ELEV. | HT43D | CLASSIFICATION OF MAT (Description) | TERIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -42.6 | 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | |
| | 5 H | SAND, medium grained, gray (£ | SY 6/1), (SP). | | 2 | Sample #2, Depth = 6.0' Mean (mm): 0.44, Phi Sorting: 0.69 Silt: 1.97% (SP) | Dredged to -46.7' Cut Elevation -49.4 |
| -51.4 | 7 8 8 9 | | | | | | |
| -53.9 | 10 | SAND, fine grained, pockets of common throughout, gray (5Y- | | | 3 | Sample #3, Depth = 10.4' Mean (mm): 0.10, Phi Sorting: 0.87 Silt: 37.74% (SM) | |
| -55.2 | 12 | CLAYEY SAND, alternating relatively same thickness of med sand and clay, (SC) | dium grained | | 4 | Sample #4, Depth = 11.5' Mean (mm): 0.23, Phi Sorting: 1.72 Silt: 20.34% (SM) | |
| -56.5 | 13 | SAND, medium grained, trace of whole shell, gray (5Y-6/1) | | | 2 | Sample #6, Depth = 14.3' | |
| -58.1 | 15 | SAND, coarse grained, some g shell fragments, gray (5Y-6/ | gravel, trace 1), (SW). | | 6 | Mean (mm): 1.57, Phi Sorting: 1.99 Silt: 2.11% (SW) | |
| | 16 | End of Boring | | | | | |
| | 16 1 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | | | | | | |
| | ''= | | | | | | |
| | 18 | | | | | | |
| | 19= | | | | | | |
| | 20. | | | | | | |
| | | Expansion from 13.2'. | | | | Note: | |
| | 21 | | | | | This column contains laboratory data. | |
| | 22 | Note: 1) Soils are field visually | | | | - | |
| | 23 | classified in accordance with the Unified Soil Classification Syste | | | | If penetration is less than 20', refusal was met after less than 1' | |
| | 23 | Shilled Golf Glassification Syste | | | | penetration occurred in 3 minutes. | |
| | 24- | | | | | | J |
| | | | 22015 | CT: Fire Is | | HOLE NUMBER: FIVC-01-13 | ٦ |

PROJECT: Fire Island

| | | - | | | | | HOLE NO. FIVE-01-13 | | |
|------------|---|-----------|--|--|------------------|-----------------------|--|--|--|
| DRIL | LING LO | OG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | | |
| 1. PROJE | СТ | FIRE | ISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | | |
| 2. LOCA | (Coord | dinates (| or Station) 1246786 Y= 177014 | 11. DATUN | | EVATIO IGVD | N SHOWN ^{(TBM} or MSL) | | |
| 3. DRILLII | NG AGENC | | ne Ocean Seismic Survey Inc. | 12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE | | | | | |
| 4. HOLE | NO. (As sh | own on | drawing title and file number) | | | | DEN SAMPLES TAKEN isturbed: 0 | | |
| - | | | FIVC-01-13A | 14. TOTAL | | | | | |
| 5. NAME | OF DRILLE | R | JAMES COLE | 15. ELEVA | TION GR | OUND W | /ATER | | |
| 6. DIRECT | TION OF HO | VERTICAL | 16. DATE I | | Started 10/04/0 | | | | |
| 7. THICK | NESS OF BU | JRDEN | 10.0 FT | | | | RY FOR BORING 100% | | |
| 8. DEPTH | I DRILLED I | NTO R | OCK N/A | 19. SIGNA | | | | | |
| 9. TOTAL | DEPTH OF | HOLE | 17.3 FT | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATER (Description) | IALS | CORE REC % | SAMPLE NUMBER | REMARKS | | |
| -41.1 | 0- | | | | | | | | |
| -52.1 | 1 1 2 3 4 5 6 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11 | | JET | | | | | | |
| | | | SAND, medium to coarse grained gravel, gray (5Y-6/1), (SW) | | | 13#6 | | | |
| -53.3 | 12 | | | | | | | | |
| | 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | | SAND, medium grained, trace fragments, gray (5Y-6/1), (S | | | 9 | Sample #9, Depth = 18.0' Mean (mm): 0.41, Phi Sorting: 0.93 Silt: 4.22% (SP) | | |
| -61.4 | 19 = 20 = 21 = 21 = 21 = 21 = 21 = 21 = 21 | | End of Boring | | | | Note: | | |
| | 21 | | Expansion from 17.3'. | | | | This column contains laboratory data. | | |
| | 22 | | | | | | · | | |
| | Note: | | | | | | If penetration is less than 20', refusal was met after less than 1' | | |
| | classified in accordance with the | | | | | | penetration occurred in 3 minutes. | | |
| | 24— | | Unified Soil Classification System. | | | | | | |
| | | | | PROJE | CT: Fire Isl | land | HOLE NUMBER: FIVC-01-13A | | |

| | | | | | | HOLE NO. FIVC-01-1 | 7 |
|-----------|---|--|-------------|------------------|-----------------|--|--------------------|
| DRIL | LING LOG | DIVISION: | INSTALLA | TION: | | SHEET 1 of 1 | |
| 1. PROJE | CT FIDE | EISLAND SAND STUDY | 10. SIZE A | ND TYPE | OF BIT | 3 5/8" | 1 |
| | (Coordinates | | 11. DATUI | VI FOR EL | EVATIO | N SHOWN (TBM or MSL) | 1 |
| 2. LOCA | TION | 1248789 Y= 177521 | | N | | | |
| 3. DRILLI | | ine Ocean Seismic Survey Inc. | 12. MANU | | | | |
| 4. HOLE I | NO. (As shown or | n drawing title and file number) | 13. TOT N | O. OF OVE | ERBURE | DEN SAMPLES TAKEN | |
| | | FIVC-01-14 | D | isturbed: | 0 Und | isturbed: 0 | |
| 5 NAME | OF DRILLER | | 14. TOTAL | NO. OF (| CORE B | OXES | |
| J. IVANIL | OI DIVILLEN | JAMES COLE | 15. ELEVA | TION GR | OUND W | | |
| 6. DIREC | TION OF HOLE | VERTICAL | 16. DATE | | Started 10/04/0 | | |
| 7. THICK | NESS OF BURDEN | N 0.0 FT | | | | NLE -40.4 ft RY FOR BORING 100% | |
| 8. DEPTH | I DRILLED INTO F | ROCK N/A | 19. SIGNA | | | | - |
| 9. TOTAL | DEPTH OF HOLE | ≣ 17.3 FT | 10.000 | | 02020 | CIO. CIVINE | |
| ELEV. | HT43D | CLASSIFICATION OF MATE (Description) | RIALS | CORE REC % | SAMPLE | REMARKS | |
| -40.4 | 0 | | | | | | 1 |
| | 0 = | SAND, medium grained, trace fragments, light gray (10YR-7/2 | | | 1 | Sample #1, Depth = 1.0' | Dredged to -41.6' |
| -42.5 | 2 | | | | | Mean (mm): 0.76, Phi Sorting: 1.26 Silt: 2.64% (SW) | |
| -43.4 | 3 | SAND, fine to medium grained (5Y-6/1), (SP). | l, gray | | 2 | Sample #2, Depth = 2.6' Mean (mm): 0.33, Phi Sorting: 0.71 | |
| | | modium to fine empired to the | ahall | | | Silt: 4.31% (SP) | |
| 45.4 | 4= | medium to fine grained, trace fragments, gray (5Y-5/1), (\$ | | | 4 | Sample #4, Depth = 5.5' | Cut Elevation45.2 |
| -46.4 | 5 | medium to fine, light gray (10YR- | 7/2), (SP). | | | Mean (mm): 0.41, Phi Sorting: 0.85 Silt: 2.23% (SP) | Cut Lievation 43.2 |
| -49.4 | 6 1 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | fine grained, gray (5Y-6/1), (| SP). | | 5 | Sample #5, Depth = 7.6' Mean (mm): 0.24, Phi Sorting: 0.59 Silt: 1.97% (SP) | |
| F2 | 10 | SAND, fine grained, little silt, tra fragments, clay pockets commo (5Y-5/1), (SM). | | | 6 | Sample #6, Depth = 11.0' Mean (mm): 0.14, Phi Sorting: 1.06 Silt: 18.05% (SM) | |
| -53 | T =77 | CLAY, dark gray (5Y-4/1), (| CL) | | | | |
| -53.6 | 13 /// | GRAVELLY SAND, medium grair | | + | | | |
| -54.6 | 14 | • | | | | | |
| -57.6 | 15 H | SAND, fine grained, gray (5Y-6/ | 1), (SP). | | 5 | | |
| -58.8 | 18 | SAND, medium grained, little who little shell fragments, gray (5Y-6/ | | | 10 | Sample #10, Depth = 17.7' | |
| -30.0 | 1 7 | End of Boring | | | | Mean (mm): 0.66, Phi Sorting: 1.23 Silt: 1.70% (SW) | |
| | 20 | | | | | | |
| | 21 | Expansion from 17.3'. | | | | Note: This column contains laboratory data. | |
| | 21 22 23 23 24 24 | Note: 1) Soils are field visually | | | | If penetration is less than 20', refusal was met after less than 1' penetration occurred in 3 minutes. | |
| | 24= | classified in accordance with the Unified Soil Classification System. | | | | | |
| | | | | ECT: Fire Isl | | HOLE NUMBER: FIVC-01-14 | 4 |

PROJECT: Fire Island

| | | | | | | | HOLE NO. FIVC-01-1 | <u>'</u> |
|------------|---|-------|---|---------------|------------------|-----------------|---|----------------------|
| DRIL | LING LOG | i | DIVISION: | INSTALL | ATION: | | SHEET 1 of 1 |] |
| 1. PROJE | FIF | RE I | SLAND SAND STUDY | | AND TYPE | | | _ |
| 2. LOCA | (Coordinate | es or | Station) | 11. DATU | | | N SHOWN (TBM or MSL) | |
| - | Х | | 249676 Y= 177186 e Ocean Seismic Survey Inc. | 12. MANU | IFACTURE | | SIGNATION OF DRILL NEUMATIC VIBRACORE | 1 |
| 4. HOLE I | NO (As shown | on d | Irawing title and file number) | 13. TOT N | | | DEN SAMPLES TAKEN | 1 |
| 4. 110LL 1 | | | FIVC-01-17 | | | | isturbed: 0 | _ |
| 5. NAME | OF DRILLER | .J | AMES COLE | | L NO. OF | | | _ |
| 6. DIREC | TION OF HOLE | | VERTICAL | 16. DATE | | Started 10/04/0 | Completed | |
| 7. THICKI | NESS OF BURD | EN (| 0.0 FT | | | | PLE -42.3 ft RY FOR BORING 100% | 4 |
| 8. DEPTH | H DRILLED INTO | RC | OCK N/A | | ATURE OF | | | 1 |
| 9. TOTAL | DEPTH OF HO | LE | 15.8 FT | 101 01011 | | | | _ |
| ELEV. | DEPTH B | | CLASSIFICATION OF MATER (Description) | RIALS | CORE REC % | SAMPLE | REMARKS | |
| -42.3 | 0 = | 200 | CAND and in the first and in a distance of the | ula 4 augas - | | | | 1 |
| -43.2 | | | SAND, medium to fine grained, lig (10YR-7/2), (SP). | gnt gray | | 1 | Sample #1, Depth = 0.5' Mean (mm): 0.35, Phi Sorting: 0.55 | |
| | ' | | | | | | Silt: 1.39% (SP) | |
| | 2= | | | | | | | |
| | 3_ | | medium grained, trace shell fragme (5Y-6/1), (SP). | ents, gray | | 2 | Sample #2, Depth = 2.5' Mean (mm): 0.45, Phi Sorting:0.56 | Dredged to -45.3' |
| | 1 | | | | | | Silt: 1.08% (SP) | |
| -47.3 | 4 ₹ | | | | | | | |
| -47.3 | 5 | | | | | | | |
| | 6= | | medium grained, light gray (5Y-7/ | 1), (SP). | | 2 | | |
| -48.9 | | TI | | | | | | |
| | <u>'∃</u> ∷ | ‡‡ | SAND, medium to fine grained, | gray | | 4 | | |
| -51 | 8 = 1 | †‡ | (5Y-5/1), (SP). | | | - | Sample #4, Depth = 7.5' Mean (mm): 0.29, Phi Sorting: 1.11 | |
| -51 | 9= | 11 | | | | | Silt: 5.28% (SW-SM) | - Cut Elevation -51. |
| | | | SAND, medium grained, very pale | e brown | | 5 | Sample #5, Depth = 9.5' Mean (mm): 0.43, Phi Sorting: 0.75 | |
| 500 | 10 | | (10YR-7/3), (SP). | | | | Silt: 1.15% (SP) | |
| -53.3 | 11 | | fine to medium grained, gray (5Y-6 | ·/1\ (CD\ | - | | Sample #6, Depth = 11.5' Mean (mm): 0.30, Phi Sorting: 0.58 | |
| -54.3 | 12 | | | | | 6 | Silt: 1.42% (SP) | |
| -54.8 | | 1 | SAND, fine grained, little silt, gray (SW-SM). | (5Y-5/1), | $\overline{}$ | 7 | Sample #7, Depth = 12.3' Mean (mm): 0.17, Phi Sorting: 1.35 | |
| -55.8 | 13 | 71 | SAND, medium to fine grained, (5Y-6/1), (SP). | gray | | 2 | Silt: 21.81% (SM) | |
| -56.6 | 14 | Щ | SILTY SAND, fine grained, gray (| 5Y-5/1), | | 9 | Sample #9, Depth = 13.7' Mean (mm): 0.26, Phi Sorting: 1.34 | |
| _E7 0 | 15 | | (SM). SAND, fine grained, trace silt, gray | (5Y-5/1). | | 10 | Silt: 9.84% (SW-SM) Sample #10, Depth = 14.5' | |
| -57.8 | | | (SP). | ` . | +- | 6 | Mean (mm): 0.24, Phi Sorting: 0.51 Silt: 3.58% (SP) | |
| -58.8 | 16 | | fine grained, trace gravel, light (5Y-7/1), (SP). | gray | _ | ь | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| | 17- | | End of Boring | | | | | |
| | 18= | | | | | | | |
| | 10. | | | | | | | |
| | 197 | | | | | | | |
| | 20= | | | | | | | |
| | 18 19 19 20 11 21 11 22 | | | | | | Note: | |
| | | | Expansion from 15.8'. | | | | This column contains laboratory data | · |
| | 22 | | | | | | If penetration is less than 20', | |
| | 23= | | Note: 1) Soils are field visually | | | | refusal was met after less than 1' penetration occurred in 3 minutes. | |
| | 24 | | classified in accordance with the Unified Soil Classification System. | | | | | |
| | | | | PR∩ | IECT: Fire Is | land | HOLE NUMBER: FIVC-01-17 | - 4 |
| | | | | PROC | LOT. FILE IS | ianu | FIVE-UI-1/ | |

| | | _ 1 | | 1 | | | HOLE NO. FIVE-01-1 | Ĭ |
|-----------|--|----------|---|-------------------------|------------------|------------------|--|---------------------|
| DRIL | LING LOC | 3 | DIVISION: | INSTALLA | | | SHEET 1 of 1 | I |
| 1. PROJE | ECT FI | IRE | ISLAND SAND STUDY | 10. SIZE A | | | | I |
| 0.100 | (Coordina | ates o | r Station) | 11. DATUN | | | N SHOWN (TBM or MSL) | |
| 2. LOCA | IIION | X= 1 | 250549 Y= 177644 | 12 MANIII | - | IGVD R'S DES | SIGNATION OF DRILL | 1 |
| 3. DRILLI | ING AGENCY: | Alpir | ne Ocean Seismic Survey Inc. | 12. WARO | | | | |
| 4. HOLE | NO. (As show | n on | drawing title and file number) | 13. TOT NO | O. OF OVE | ERBURI | DEN SAMPLES TAKEN | |
| | | | FIVC-01-18 | | | | isturbed: 0 | |
| 5. NAME | OF DRILLER | | IAMES COLE | 14. TOTAL | | | | ļ |
| | | | JAMES COLE | 15. ELEVA 16. DATE I | | Started | Completed | |
| 6. DIREC | TION OF HOLE | : | VERTICAL | | | 10/04/0 | 01 12:51 | |
| 7. THICK | NESS OF BURI | DEN | 0.0 FT | | | | DLE -41.5 ft | |
| 8. DEPTI | H DRILLED INT | O R | DCK N/A | 19. SIGNA | | | RY FOR BORING 100% DGIST SK/ML | 1 |
| | L DEPTH OF H | | | 19. SIGNA | TUKE OF | GEULU | GIST SIVIVIL | |
| ELEV. | DEPTH (| LEGEND | CLASSIFICATION OF MATER (Description) | RIALS | CORE REC % | SAMPLE NUMBER | REMARKS | |
| -41.5 | 0 = | | | | | | | 1 |
| -46.8 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | SAND, medium grained, trace fragments, light gray (10YR-7/2 | | | 1 | Sample #1, Depth = 2.5' Mean (mm): 0.54, Phi Sorting: 0.78 Silt: 1.88% (SP) | |
| | 6= | | | | | | | D 1 14 47 01 |
| -52.9 | 7 11 11 11 11 11 11 11 11 11 11 11 11 11 | | fine to medium grained, gray (5Y-6 | 5/1), (SP). | | 2 | Sample #2, Depth = 7.5' Mean (mm): 0.35, Phi Sorting: 0.58 Silt: 1.47% (SP) | Dredged to -47.8' |
| | 12 | | | | | | | |
| | <u>' </u> | <u>'</u> | SAND, medium grained, little who little shell fragments, gray (5Y-6/ | ne shell. 1), (SP). | | 3 | Sample #3, Depth = 12.5' Mean (mm): 0.56, Phi Sorting: 1.12 | Cut Elevation -53.8 |
| -55 | 13 | ::: | | • | | | Silt: 1.96% (SW) | |
| -56.2 | 14 | | SAND, fine grained, trace silt, 1" cl at 13.9', gray (5Y-5/1), (SW-9 | | | 4 | Sample #4, Depth = 14.2' Mean (mm): 0.15, Phi Sorting: 1.22 Silt: 17.88% (SM) | |
| | 15 | | SAND, medium grained, trace sil gravel (up to 1.5"), trace shell fra | lt, some | | 6 | | |
| -57.4 | 16 | <u></u> | gray (5Y-6/1), (SW). | emono, _ | | | | |
| -60.3 | 17 | | medium grained, trace shell fragme gravel, light gray (5Y-7/1), (S | SW). | | 6 | Sample #6, Depth = 17.5' Mean (mm): 0.67, Phi Sorting: 1.20 Silt: 2.12% (SW) | |
| -61.1 | 19 | <u> </u> | SAND, fine grained, trace silt, gray (SW-SM). | (5Y-6/1), | | 4 | | |
| | 20 | | End of Boring | | | | | |
| | | | Č | | | | | |
| | 21 | | Expansion from 15.8'. | | | | Note: This column contains laboratory data. | |
| | 22 | | 1 | | | | , | |
| | 23 | | Note: 1) Soils are field visually classified in accordance with the | | | | If penetration is less than 20', refusal was met after less than 1' penetration occurred in 3 minutes. | |
| | 24— | | Unified Soil Classification System. | | | | | J |
| | | | | DDO IE | CT: Fire Is | lond | HOLE NUMBER: FIVC-01-18 | 1 |

PROJECT: Fire Island